

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH RIMSULFURON, 2006

Trial ID: C0206  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Christy Sprague

**Date Planted:** 5/4/2006                      **Row Spacing:** 30 IN  
**Variety:** P37R70                              **No. of Reps:** 3  
**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
<b>Application Timing:</b>	PRE	MP
<b>Date Treated:</b>	5/4/2006	6/2/2006
<b>Time Treated:</b>	8:40 pm	11:30 am
<b>% Cloud Cover:</b>	30	100
<b>Air Temp., Unit:</b>	54 F	72 F
<b>% Relative Humidity:</b>	52	58
<b>Wind Speed/Unit/Dir:</b>	4 mph	4 mph NE
<b>Soil Temp., Unit:</b>	62 F	69 F
<b>Soil/Leaf Surface M:</b>	4 4	5 5
<b>Soil Moist (1=w 5=d):</b>	3	3

**Crop Stage at Each Application**

	A	B
<b>Crop Name:</b>	ZEAMX	ZEAMX
<b>Height (In.):</b>		5-9(7)
<b>Stage (L):</b>		V3-4 (4) 5L

**Weed Stage at Each Application**

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

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

	<b>1</b>	<b>2</b>
<b>Date:</b>	5/4/2006	6/2/2006
<b>Weed Name:</b>	ANGR	ANGR
<b>Density:</b>		44
<b>Date:</b>	5/4/2006	6/2/2006
<b>Weed Name:</b>	CHEAL	CHEAL
<b>Density:</b>		56
<b>Date:</b>	5/4/2006	6/2/2006
<b>Weed Name:</b>	AMARE	AMARE
<b>Density:</b>		2
<b>Date:</b>	5/4/2006	6/2/2006
<b>Weed Name:</b>	AMBEL	AMBEL
<b>Density:</b>		14
<b>Date:</b>	5/4/2006	6/2/2006
<b>Weed Name:</b>	ABUTH	ABUTH
<b>Density:</b>		1

**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	23"	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								6/3/2006		6/3/2006	6/3/2006	6/3/2006	6/3/2006	6/9/2006	6/16/2006
Trt-Eval Interval								AT MP		AT MP	AT MP	AT MP	AT MP	7 DAMP	14 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	1	2	3	4	5	6	7	8	
14	DPX-9636	25	WG	1	oz/a	PRE	0	86	95	100	87	88	0	0	
14	Karmex	80	WG	1.5	lb/a	PRE									
14	Roundup WeatherMax	4.5	L	22	fl oz/a	MP									
14	Harmony GT	50	WG	0.125	oz/a	MP									
14	Ammonium Sulfate		DF	2	% w/w	MP									
15	Blank														
16	Bicep II Magnum	5.5	L	1.5	pt/a	PRE	0	96	98	100	74	77	2	0	
16	Steadfast	75	WG	0.75	oz/a	MP									
16	Callisto	4	SC	2	fl oz/a	MP									
16	Atrazine 90 DF	90	DF	8	oz ai/a	MP									
16	Herbimax		L	1	% v/v	MP									
16	Ammonium Sulfate		DF	2	% v/v	MP									
17	Untreated						0	0	0	0	0	0	0	0	
LSD (P=.05)							0.0	17.2	9.7	2.6	9.7	9.0	2.0	1.6	
Standard Deviation							0.0	10.1	5.7	1.5	5.7	5.3	1.2	1.0	
CV							0.0	13.53	6.67	1.67	7.35	6.65	119.55	352.17	

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Weed Code							ANGR	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX	ANGR
Crop Code													
Rating Data Type							control	control	control	control	control	injury	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent
Rating Date							6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/29/2006	6/29/2006
Trt-Eval Interval							14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	27 DAMP	27 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15
1	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	96	97	100	99	95	0	80
1	Ammonium Sulfate		DF	2	% w/w	MP							
2	Blank						100	99	100	100	100	0	97
3	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	99	100	100	100	100	0	88
3	DPX-9636	25	WG	1	oz/a	MP							
3	Atrazine 90 DF	90	DF	16	oz ai/a	MP							
3	Ammonium Sulfate		DF	2	% w/w	MP							
4	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100	100	100	100	0	92
4	DPX-9636	25	WG	1	oz/a	MP							
4	Atrazine 90 DF	90	DF	32	oz ai/a	MP							
4	Ammonium Sulfate		DF	2	% w/w	MP							
5	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	97	100	100	100	98	0	77
5	Harmony GT	50	WG	0.125	oz/a	MP							
5	Ammonium Sulfate		DF	2	% w/w	MP							
6	DPX-9636	25	WG	1.5	oz/a	PRE	95	95	100	95	98	0	84
6	Karmex	80	WG	1.5	lb/a	PRE							
6	Balance Pro	4	SC	1.5	fl oz/a	PRE							
7	DPX-9636	25	WG	1.5	oz/a	PRE	78	100	100	100	94	0	61
7	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
7	Balance Pro	4	SC	1.5	fl oz/a	PRE							
8	DPX-9636	25	WG	1	oz/a	PRE	98	99	100	99	96	0	87
8	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
8	DPX-9636	25	WG	1	oz/a	MP							
8	Ammonium Sulfate		DF	2	% w/w	MP							
9	DPX-9636	25	WG	1	oz/a	PRE	93	100	100	100	100	0	79
9	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
9	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
9	Ammonium Sulfate		DF	2	% w/w	MP							
10	DPX-9636	25	WG	1	oz/a	PRE	98	100	100	100	98	0	86
10	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
10	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
10	DPX-9636	25	WG	1	oz/a	MP							
10	Ammonium Sulfate		DF	2	% w/w	MP							
11	DPX-9636	25	WG	1	oz/a	MP	98	100	100	100	97	0	82
11	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
11	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
11	Harmony GT	50	WG	0.125	oz/a	MP							
11	Ammonium Sulfate		DF	2	% w/w	MP							
12	DPX-9636	25	WG	1	oz/a	PRE	96	98	100	100	97	0	82
12	Karmex	80	WG	1.5	lb/a	PRE							
12	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
12	Ammonium Sulfate		DF	2	% w/w	MP							
13	DPX-9636	25	WG	1	oz/a	PRE	98	100	100	100	98	0	89
13	Karmex	80	WG	1.5	lb/a	PRE							
13	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
13	DPX-9636	25	WG	1	oz/a	MP							
13	Ammonium Sulfate		DF	2	% w/w	MP							

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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				6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/29/2006	6/29/2006			
Trt-Eval Interval				14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	27 DAMP	27 DAMP			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	9	10	11	12	13	14	15
14	DPX-9636	25	WG	1	oz/a	PRE	94	99	100	100	96	0	82
14	Karmex	80	WG	1.5	lb/a	PRE							
14	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
14	Harmony GT	50	WG	0.125	oz/a	MP							
14	Ammonium Sulfate		DF	2	% w/w	MP							
15	Blank												
16	Bicep II Magnum	5.5	L	1.5	pt/a	PRE	96	100	100	99	99	0	86
16	Steadfast	75	WG	0.75	oz/a	MP							
16	Callisto	4	SC	2	fl oz/a	MP							
16	Atrazine 90 DF	90	DF	8	oz ai/a	MP							
16	Herbimax		L	1	% v/v	MP							
16	Ammonium Sulfate		DF	2	% v/v	MP							
17	Untreated						0	0	0	0	0	0	0
LSD (P=.05)							5.4	1.9	0.2	2.1	4.7	0.0	8.8
Standard Deviation							3.2	1.2	0.1	1.3	2.8	0.0	5.3
CV							3.62	1.24	0.15	1.38	3.09	0.0	6.74

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Weed Code				CHEAL	AMARE	AMBEL	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				6/29/2006	6/29/2006	6/29/2006	6/29/2006	7/26/2006	7/26/2006	7/26/2006			
Trt-Eval Interval				27 DAMP	27 DAMP	27 DAMP	27 DAMP	54 DAMP	54 DAMP	54 DAMP			
Trt No.	Treatment	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	16	17	18	19	20	21	22
1	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	87	96	98	97	55	82	95
1	Ammonium Sulfate		DF	2	% w/w	MP							
2	Blank						96	100	98	100	92	89	100
3	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100	100	100	78	100	100
3	DPX-9636	25	WG	1	oz/a	MP							
3	Atrazine 90 DF	90	DF	16	oz ai/a	MP							
3	Ammonium Sulfate		DF	2	% w/w	MP							
4	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100	100	100	84	100	100
4	DPX-9636	25	WG	1	oz/a	MP							
4	Atrazine 90 DF	90	DF	32	oz ai/a	MP							
4	Ammonium Sulfate		DF	2	% w/w	MP							
5	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	92	97	96	97	57	93	100
5	Harmony GT	50	WG	0.125	oz/a	MP							
5	Ammonium Sulfate		DF	2	% w/w	MP							
6	DPX-9636	25	WG	1.5	oz/a	PRE	99	100	95	97	72	91	100
6	Karmex	80	WG	1.5	lb/a	PRE							
6	Balance Pro	4	SC	1.5	fl oz/a	PRE							
7	DPX-9636	25	WG	1.5	oz/a	PRE	100	99	100	96	23	100	98
7	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
7	Balance Pro	4	SC	1.5	fl oz/a	PRE							
8	DPX-9636	25	WG	1	oz/a	PRE	89	99	95	96	70	85	98
8	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
8	DPX-9636	25	WG	1	oz/a	MP							
8	Ammonium Sulfate		DF	2	% w/w	MP							
9	DPX-9636	25	WG	1	oz/a	PRE	95	96	100	98	64	91	96
9	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
9	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
9	Ammonium Sulfate		DF	2	% w/w	MP							
10	DPX-9636	25	WG	1	oz/a	PRE	98	100	100	91	67	85	100
10	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
10	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
10	DPX-9636	25	WG	1	oz/a	MP							
10	Ammonium Sulfate		DF	2	% w/w	MP							
11	DPX-9636	25	WG	1	oz/a	MP	97	100	97	87	63	94	98
11	Atrazine 90 DF	90	DF	16	oz ai/a	PRE							
11	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
11	Harmony GT	50	WG	0.125	oz/a	MP							
11	Ammonium Sulfate		DF	2	% w/w	MP							
12	DPX-9636	25	WG	1	oz/a	PRE	92	99	100	92	69	77	100
12	Karmex	80	WG	1.5	lb/a	PRE							
12	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
12	Ammonium Sulfate		DF	2	% w/w	MP							
13	DPX-9636	25	WG	1	oz/a	PRE	96	100	97	96	72	89	100
13	Karmex	80	WG	1.5	lb/a	PRE							
13	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
13	DPX-9636	25	WG	1	oz/a	MP							
13	Ammonium Sulfate		DF	2	% w/w	MP							

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Weed Code				CHEAL	AMARE	AMBEL	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				6/29/2006	6/29/2006	6/29/2006	6/29/2006	7/26/2006	7/26/2006	7/26/2006			
Trt-Eval Interval				27 DAMP	27 DAMP	27 DAMP	27 DAMP	54 DAMP	54 DAMP	54 DAMP			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	16	17	18	19	20	21	22
14	DPX-9636	25	WG	1	oz/a	PRE	93	99	100	97	69	98	100
14	Karmex	80	WG	1.5	lb/a	PRE							
14	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
14	Harmony GT	50	WG	0.125	oz/a	MP							
14	Ammonium Sulfate		DF	2	% w/w	MP							
15	Blank												
16	Bicep II Magnum	5.5	L	1.5	pt/a	PRE	100	100	100	98	69	98	100
16	Steadfast	75	WG	0.75	oz/a	MP							
16	Callisto	4	SC	2	fl oz/a	MP							
16	Atrazine 90 DF	90	DF	8	oz ai/a	MP							
16	Herbimax		L	1	% v/v	MP							
16	Ammonium Sulfate		DF	2	% v/v	MP							
17	Untreated						0	0	0	0	0	0	0
LSD (P=.05)							6.5	3.1	5.2	6.5	14.8	8.0	3.9
Standard Deviation							3.9	1.9	3.1	3.9	8.9	4.8	2.3
CV							4.36	2.02	3.41	4.34	14.17	5.61	2.53

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Weed Code	AMBEL	ABUTH
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	7/26/2006	7/26/2006
Trt-Eval Interval	54 DAMP	54 DAMP

Trt No.	Treatment	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	23	24
1	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	93	93
1	Ammonium Sulfate		DF	2	% w/w	MP		
2	Blank						98	98
3	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100
3	DPX-9636	25	WG	1	oz/a	MP		
3	Atrazine 90 DF	90	DF	16	oz ai/a	MP		
3	Ammonium Sulfate		DF	2	% w/w	MP		
4	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100
4	DPX-9636	25	WG	1	oz/a	MP		
4	Atrazine 90 DF	90	DF	32	oz ai/a	MP		
4	Ammonium Sulfate		DF	2	% w/w	MP		
5	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	98	92
5	Harmony GT	50	WG	0.125	oz/a	MP		
5	Ammonium Sulfate		DF	2	% w/w	MP		
6	DPX-9636	25	WG	1.5	oz/a	PRE	90	88
6	Karmex	80	WG	1.5	lb/a	PRE		
6	Balance Pro	4	SC	1.5	fl oz/a	PRE		
7	DPX-9636	25	WG	1.5	oz/a	PRE	98	93
7	Atrazine 90 DF	90	DF	16	oz ai/a	PRE		
7	Balance Pro	4	SC	1.5	fl oz/a	PRE		
8	DPX-9636	25	WG	1	oz/a	PRE	95	97
8	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
8	DPX-9636	25	WG	1	oz/a	MP		
8	Ammonium Sulfate		DF	2	% w/w	MP		
9	DPX-9636	25	WG	1	oz/a	PRE	97	93
9	Atrazine 90 DF	90	DF	16	oz ai/a	PRE		
9	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
9	Ammonium Sulfate		DF	2	% w/w	MP		
10	DPX-9636	25	WG	1	oz/a	PRE	95	92
10	Atrazine 90 DF	90	DF	16	oz ai/a	PRE		
10	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
10	DPX-9636	25	WG	1	oz/a	MP		
10	Ammonium Sulfate		DF	2	% w/w	MP		
11	DPX-9636	25	WG	1	oz/a	MP	95	82
11	Atrazine 90 DF	90	DF	16	oz ai/a	PRE		
11	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
11	Harmony GT	50	WG	0.125	oz/a	MP		
11	Ammonium Sulfate		DF	2	% w/w	MP		
12	DPX-9636	25	WG	1	oz/a	PRE	100	82
12	Karmex	80	WG	1.5	lb/a	PRE		
12	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
12	Ammonium Sulfate		DF	2	% w/w	MP		
13	DPX-9636	25	WG	1	oz/a	PRE	97	95
13	Karmex	80	WG	1.5	lb/a	PRE		
13	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
13	DPX-9636	25	WG	1	oz/a	MP		
13	Ammonium Sulfate		DF	2	% w/w	MP		

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Weed Code	AMBEL	ABUTH
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	7/26/2006	7/26/2006
Trt-Eval Interval	54 DAMP	54 DAMP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	23	24
14	DPX-9636	25	WG	1	oz/a	PRE	100	98
14	Karmex	80	WG	1.5	lb/a	PRE		
14	Roundup WeatherMax	4.5	L	22	fl oz/a	MP		
14	Harmony GT	50	WG	0.125	oz/a	MP		
14	Ammonium Sulfate		DF	2	% w/w	MP		
15	Blank							
16	Bicep II Magnum	5.5	L	1.5	pt/a	PRE	100	68
16	Steadfast	75	WG	0.75	oz/a	MP		
16	Callisto	4	SC	2	fl oz/a	MP		
16	Atrazine 90 DF	90	DF	8	oz ai/a	MP		
16	Herbimax		L	1	% v/v	MP		
16	Ammonium Sulfate		DF	2	% v/v	MP		
17	Untreated						0	0

LSD (P=.05)	6.6	24.2
Standard Deviation	4.0	14.5
CV	4.37	16.9