

RIMSULFURON TANK-MIXES, 2009

Trial ID: P1109 Study Dir.:  
 Conducted: MONTCALM RSCH FARM Investigator: Christy Sprague

Date Planted: 5/11/09 Row Spacing: 34 IN  
 Variety: SNOWDEN No. of Reps: 3  
 Population: 1/FT % OM: 1.2  
 Soil Type: Loamy Sand pH: 5.4  
 Plot Size: 9 X 20 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring Disc 3X. Spring Chisel. Field Cultivated.  
 Fertilizer: 20 gal/A of 19-17-0, 12 gal/A of 10-34-0 in Row. 23 gal/A of 28% N at Cultivation. 23 gal/A of 28%N at Hilling. 100 lbs/A of 46-0-0 Broadcast.

## Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	5/11/09	7/8/09
Time Treated:	3:12 PM	10:10 AM
% Cloud Cover:	60	40
Air Temp., Unit:	67 F	79 F
% Relative Humidity:	32	53
Wind Speed/Unit/Dir:	7 mph SW	2 mph S
Soil Temp., Unit:		64 F
Soil/Leaf Surface M:		4
Soil Moist (1=w 5=d):		4

## Crop Stage at Each Application

	A	B
Crop Name:	SOLTU	SOLTU
Height (In.):		19

## Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):		.25-10(1)
Stage (L):		1-3(2)
Weed 2 Name:	CHEAL	CHEAL
Height (In.):		.25-1(.5)
Stage (L):		Cot-2(1)
Weed 3 Name:	DIGSA	DIGSA
Height (In.):		.25-1(.5)
Stage (L):		Cot-4(3)

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

	1
Date:	7/8/09
Weed Name:	ANGR
Density:	31
Date:	7/8/09
Weed Name:	CHEAL
Density:	25
Date:	7/8/09
Weed Name:	AMARE
Density:	2
Date:	7/8/09
Weed Name:	AMBEL
Density:	0
Date:	7/8/09
Weed Name:	ABUTH
Density:	0

## Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Nozzle Width	GPA	Carrier	PSI
A	BKPK	3.5	FF	8003	18"	20"	100"	20	H20	30
B	BKPK	3.5	FF	8003	24"	20"	100"	20	H20	30

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Weed Code								CHEAL	DIGSA			CHEAL	DIGSA			ANGR	CHEAL	
Crop Code								SOLTU	SOLTU	SOLTU			SOLTU	SOLTU			SOLTU	SOLTU
Rating Data Type								stunt	discolor	injury	control	control	injury	control	control	injury	control	control
Rating Unit								percent	percent	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date								6/10/09	6/10/09	6/10/09	6/10/09	6/10/09	7/8/09	7/8/09	7/8/09	7/20/09	7/20/09	7/20/09
Trt-Eval Interval								10 DAE	10 DAE	10 DAE	10 DAE	10 DAE	at POST	at POST	at POST	12 DAPO	12 DAPO	12 DAPO
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	9	10	11	
1	Matrix	25	WG	0.023	lb ai/a	PRE	3	0	3	100	100	0	99	98	7	95	98	
1	Outlook	6	L	0.625	lb ai/a	PRE												
2	Matrix	25	WG	0.023	lb ai/a	PRE	7	0	7	100	100	0	100	92	8	91	98	
2	Authority	75	DG	0.19	lb ai/a	PRE												
3	Matrix	25	WG	0.023	lb ai/a	PRE	0	0	0	100	100	0	99	92	7	88	98	
3	Sencor	75	DF	0.38	lb ai/a	PRE												
4	Outlook	6	L	0.625	lb ai/a	PRE	5	0	5	98	100	2	95	97	3	94	99	
4	Matrix	25	WG	0.023	lb ai/a	POST												
4	Activator 90		L	0.25	% v/v	POST												
5	Authority	75	DG	0.19	lb ai/a	PRE	8	0	8	100	63	2	97	72	8	90	100	
5	Matrix	25	WG	0.023	lb ai/a	POST												
5	Activator 90		L	0.25	% v/v	POST												
6	Sencor	75	DF	0.38	lb ai/a	PRE	3	0	3	100	100	0	98	96	8	99	99	
6	Dual II Magnum	7.64	L	0.96	lb ai/a	PRE												
6	Matrix	25	WG	0.023	lb ai/a	POST												
6	Activator 90		L	0.25	% v/v	POST												
7	Matrix	25	WG	0.016	lb ai/a	POST	0	0	0	0	0	0	13	0	3	60	73	
7	Permit	75	DF	0.016	lb ai/a	POST												
7	Activator 90		L	0.25	% v/v	POST												
8	Matrix	25	WG	0.016	lb ai/a	POST	0	0	0	0	0	0	0	0	3	71	92	
8	Sencor	75	DF	0.25	lb ai/a	POST												
8	Activator 90		L	0.25	% v/v	POST												
9	Matrix	25	WG	0.023	lb ai/a	POST	0	0	0	0	0	0	0	0	3	69	57	
9	Activator 90		L	0.25	% v/v	POST												
10	Non-Treated						0	0	0	0	0	2	67	33	3	63	60	
LSD (P=.05)							11.0	0.0	11.0	1.6	29.9	2.9	33.3	31.1	8.4	43.1	39.7	
Standard Deviation							6.4	0.0	6.4	0.9	17.4	1.7	19.4	18.1	4.9	25.1	23.2	
CV							240.44	0.0	240.44	1.53	30.92	333.33	29.08	31.27	89.04	30.62	26.5	

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Weed Code		ANGR	CHEAL
Crop Code		SOLTU	
Rating Data Type		injury	control
Rating Unit		percent	percent
Rating Date		8/5/09	8/5/09
Trt-Eval Interval		28 DAPO	28 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	12	13	14
1	Matrix	25	WG	0.023	lb ai/a	PRE	0	85	89
1	Outlook	6	L	0.625	lb ai/a	PRE			
2	Matrix	25	WG	0.023	lb ai/a	PRE	0	79	98
2	Authority	75	DG	0.19	lb ai/a	PRE			
3	Matrix	25	WG	0.023	lb ai/a	PRE	0	67	83
3	Sencor	75	DF	0.38	lb ai/a	PRE			
4	Outlook	6	L	0.625	lb ai/a	PRE	2	97	93
4	Matrix	25	WG	0.023	lb ai/a	POST			
4	Activator 90		L	0.25	% v/v	POST			
5	Authority	75	DG	0.19	lb ai/a	PRE	3	95	98
5	Matrix	25	WG	0.023	lb ai/a	POST			
5	Activator 90		L	0.25	% v/v	POST			
6	Sencor	75	DF	0.38	lb ai/a	PRE	5	98	97
6	Dual II Magnum	7.64	L	0.96	lb ai/a	PRE			
6	Matrix	25	WG	0.023	lb ai/a	POST			
6	Activator 90		L	0.25	% v/v	POST			
7	Matrix	25	WG	0.016	lb ai/a	POST	0	52	57
7	Permit	75	DF	0.016	lb ai/a	POST			
7	Activator 90		L	0.25	% v/v	POST			
8	Matrix	25	WG	0.016	lb ai/a	POST	0	66	45
8	Sencor	75	DF	0.25	lb ai/a	POST			
8	Activator 90		L	0.25	% v/v	POST			
9	Matrix	25	WG	0.023	lb ai/a	POST	3	80	55
9	Activator 90		L	0.25	% v/v	POST			
10	Non-Treated						0	37	42
LSD (P=.05)							6.4	33.7	38.7
Standard Deviation							3.8	19.6	22.5
CV							281.37	26.01	29.81