

## WEED CONTROL IN POTATO WITH RIMSULFURON FORMULATIONS, 2009

Trial ID: P0309 Study Dir.:  
 Conducted: MONTCALM RSCH FARM Investigator: Christy Sprague

Date Planted: 5/11/09 Row Spacing: 34 IN  
 Variety: SNOWDEN No. of Reps: 4  
 Population: 1/FT % OM: 2.7  
 Soil Type: Loamy Sand pH: 5.6  
 Plot Size: 10 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	C
Application Timing:	PRE	CRACK	POST
Date Treated:	5/26/09	6/10/09	7/14/09
Time Treated:	3:37 PM	2:10 PM	9:30 AM
% Cloud Cover:	100	40	5
Air Temp., Unit:	75 F	83 F	66 F
% Relative Humidity:	44.6	52	42
Wind Speed/Unit/Dir:	3 mph E	0 mph	0 mph
Soil Temp., Unit:	61 F	70 F	66 F
Soil/Leaf Surface M:			3
Soil Moist (1=w 5=d):	2	3	4

## Crop Stage at Each Application

	A	B	C
Crop Name:	SOLTU	SOLTU	SOLTU

## Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Weed 3 Name:	AMARE	AMARE	AMARE
Weed 4 Name:	ABUTH	ABUTH	ABUTH

## 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"	120"	20	H20	30
B	BKPK	3.5	FF	8003	18"	20"	120"	20	H20	30
C	BKPK	3.5	FF	8003	18"	20"	120"	20	H20	30

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Weed Code							ANGR	CHEAL	AMARE	ABUTH					ANGR	CHEAL	AMARE			
Crop Code							SOLTU										SOLTU			
Rating Data Type							injury	control	control	control	control	injury	control	control	control	control				
Rating Unit							percent	percent	percent	percent	percent	percent	percent	percent	percent	percent				
Rating Date							6/16/09	6/16/09	6/16/09	6/16/09	6/16/09	7/8/09	7/8/09	7/8/09	7/8/09	7/8/09				
Trt-Eval Interval							21 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE	21 DAPRE	44 DAPRE	44 DAPRE	44 DAPRE	44 DAPRE					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	9					
1	MANA Rimsulfuron	25	DF	1	oz/a	PRE	0	100	90	98	89	0	100	63	88					
2	Matrix	25	WG	1	oz/a	PRE	0	99	80	100	81	0	96	51	93					
3	MANA Rimsulfuron	25	DF	1.5	oz/a	PRE	1	100	100	100	81	0	100	59	98					
4	Matrix	25	WG	1.5	oz/a	PRE	1	100	96	100	91	0	100	55	96					
5	MANA Rimsulfuron	25	DF	1	oz/a	POST	0	90	20	30	100	0	0	0	0					
5	Activator 90		L	0.2	% v/v	POST														
6	Matrix	25	WG	1	oz/a	POST						0	0	0	0					
6	Activator 90		L	0.2	% v/v	POST														
7	MANA Rimsulfuron	25	DF	1.5	oz/a	POST						0	0	0	0					
7	Activator 90		L	0.2	% v/v	POST														
8	Matrix	25	WG	1.5	oz/a	POST						0	0	0	0					
8	Activator 90		L	0.2	% v/v	POST														
9	Non-Treated						0	0	0	0	0	0	0	0	0					
10	MANA Rimsulfuron	25	DF	1	oz/a	CRACK	1	100	46	100	80	0	100	24	98					
11	Matrix	25	WG	1	oz/a	CRACK	0	100	65	100	88	0	100	24	98					
12	MANA Rimsulfuron	25	DF	1.5	oz/a	CRACK	0	100	55	100	76	0	100	33	98					
13	Matrix	25	WG	1.5	oz/a	CRACK	1	100	70	100	94	0	100	39	98					
LSD (P=.05)							1.7	1.2	23.5	2.4	19.7	0.0	1.7	9.9	4.3					
Standard Deviation							1.1	0.8	16.1	1.7	13.5	0.0	1.2	6.9	3.0					
CV							324.19	0.94	25.92	2.03	17.35	0.0	2.0	26.06	5.14					

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Weed Code							ABUTH	ANGR	CHEAL	AMARE	ABUTH	CHEAL	
Crop Code											SOLTU		
Rating Data Type							control	control	control	control	control	injury	
Rating Unit							percent	percent	percent	percent	percent	percent	
Rating Date							7/8/09	8/12/09	8/12/09	8/12/09	8/12/09	8/27/09	
Trt-Eval Interval							44 DAPRE	29 DAPO	29 DAPO	29 DAPO	29 DAPO	44 DAPO	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	10	11	12	13	14	15	16
1	MANA Rimsulfuron	25	DF	1	oz/a	PRE	74	88	73	100	85	0	69
2	Matrix	25	WG	1	oz/a	PRE	73	84	62	100	86	0	60
3	MANA Rimsulfuron	25	DF	1.5	oz/a	PRE	84	86	78	100	86	0	78
4	Matrix	25	WG	1.5	oz/a	PRE	79	88	77	100	76	0	79
5	MANA Rimsulfuron	25	DF	1	oz/a	POST	0	76	28	100	80	0	8
5	Activator 90		L	0.2	% v/v	POST							
6	Matrix	25	WG	1	oz/a	POST	0	70	38	100	69	0	18
6	Activator 90		L	0.2	% v/v	POST							
7	MANA Rimsulfuron	25	DF	1.5	oz/a	POST	0	77	40	100	88	0	25
7	Activator 90		L	0.2	% v/v	POST							
8	Matrix	25	WG	1.5	oz/a	POST	0	63	25	100	68	0	13
8	Activator 90		L	0.2	% v/v	POST							
9	Non-Treated						0	0	0	0	0	0	3
10	MANA Rimsulfuron	25	DF	1	oz/a	CRACK	65	86	35	100	65	0	15
11	Matrix	25	WG	1	oz/a	CRACK	60	83	35	100	86	0	13
12	MANA Rimsulfuron	25	DF	1.5	oz/a	CRACK	75	83	53	100	81	0	43
13	Matrix	25	WG	1.5	oz/a	CRACK	65	89	41	100	95	0	31
LSD (P=.05)							22.4	10.1	20.8	0.0	28.0	0.0	21.8
Standard Deviation							15.7	7.1	14.5	0.0	19.6	0.0	15.3
CV							35.58	9.45	32.39	0.0	26.43	0.0	43.94