

HALOSULFURON FOR WEED CONTROL IN POTATO, 2009

Trial ID: P1009 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:	3:20 PM	10:20 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

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Weed 2 Name:	CHEAL	CHEAL
Weed 3 Name:	DI GSA	DI GSA
Weed 4 Name:	AMARE	AMARE

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	H2O	30
B	BKPK	3.5	FF	8003	24"	20"	100"	20	H2O	30

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Weed Code								ANGR	CHEAL			CHEAL	DIGSA			ANGR	CHEAL	
Crop Code						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	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	7/8/09	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	Permit	75	DF	0.024	lb ai/a	PRE	32	0	32	100	100	3	97	79	7	65	96	
2	Permit	75	DF	0.048	lb ai/a	PRE	62	0	62	95	100	13	98	67	8	64	100	
3	Permit	75	DF	0.024	lb ai/a	PRE	17	0	17	100	100	0	100	99	5	98	98	
3	Dual II Magnum	7.64	L	1	lb ai/a	PRE												
4	Permit	75	DF	0.048	lb ai/a	PRE	27	0	27	100	100	5	99	98	8	91	99	
4	Dual II Magnum	7.64	L	1	lb ai/a	PRE												
5	Permit	75	DF	0.024	lb ai/a	PRE	30	0	30	100	100	0	100	98	13	98	98	
5	Sencor	75	DF	0.38	lb ai/a	PRE												
5	Dual II Magnum	7.64	L	1	lb ai/a	PRE												
6	Permit	75	DF	0.048	lb ai/a	PRE	45	0	45	100	100	4	100	99	13	98	95	
6	Sencor	75	DF	0.38	lb ai/a	PRE												
6	Dual II Magnum	7.64	L	1	lb ai/a	PRE												
7	Dual II Magnum	7.64	L	1	lb ai/a	PRE	3	0	3	95	95	0	93	98	7	97	93	
7	Permit	75	DF	0.024	lb ai/a	POST												
7	Activator 90		L	0.25	% v/v	POST												
8	Dual II Magnum	7.64	L	1	lb ai/a	PRE	5	0	5	100	100	0	97	99	8	100	100	
8	Sencor	75	DF	0.38	lb ai/a	PRE												
8	Permit	75	DF	0.024	lb ai/a	POST												
8	Activator 90		L	0.25	% v/v	POST												
9	Dual II Magnum	7.64	L	1	lb ai/a	PRE	3	0	3	100	100	0	100	97	3	97	99	
9	Sencor	75	DF	0.38	lb ai/a	PRE												
10	Dual II Magnum	7.64	L	1	lb ai/a	PRE	0	0	0	100	100	0	100	100	3	97	98	
10	Sencor	75	DF	0.38	lb ai/a	PRE												
10	Matrix	25	WG	0.024	lb ai/a	POST												
10	Activator 90		L	0.25	% v/v	POST												
11	Non-Treated						0	0	0	33	33	0	0	0	0	0	0	
LSD (P=.05)							36.7	0.0	36.7	30.1	30.0	10.2	5.2	13.8	14.5	22.8	6.0	
Standard Deviation							21.6	0.0	21.6	17.7	17.6	5.6	3.1	8.1	8.5	13.4	3.5	
CV							106.18	0.0	106.18	18.99	18.83	263.09	3.42	9.56	122.1	16.3	4.0	

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Weed Code	AMARE	ANGR	CHEAL
Crop Code	SOLTU		
Rating Data Type	control	injury	control
Rating Unit	percent	percent	percent
Rating Date	7/20/09	8/5/09	8/5/09
Trt-Eval Interval	12 DAPO	28 DAPO	28 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	12	13	14	15
1	Permit	75	DF	0.024	lb ai/a	PRE	100	7	35	75
2	Permit	75	DF	0.048	lb ai/a	PRE	100	8	15	73
3	Permit	75	DF	0.024	lb ai/a	PRE	100	7	87	94
3	Dual II Magnum	7.64	L	1	lb ai/a	PRE				
4	Permit	75	DF	0.048	lb ai/a	PRE	100	13	84	86
4	Dual II Magnum	7.64	L	1	lb ai/a	PRE				
5	Permit	75	DF	0.024	lb ai/a	PRE	100	8	88	93
5	Sencor	75	DF	0.38	lb ai/a	PRE				
5	Dual II Magnum	7.64	L	1	lb ai/a	PRE				
6	Permit	75	DF	0.048	lb ai/a	PRE	100	10	94	95
6	Sencor	75	DF	0.38	lb ai/a	PRE				
6	Dual II Magnum	7.64	L	1	lb ai/a	PRE				
7	Dual II Magnum	7.64	L	1	lb ai/a	PRE	100	2	93	90
7	Permit	75	DF	0.024	lb ai/a	POST				
7	Activator 90		L	0.25	% v/v	POST				
8	Dual II Magnum	7.64	L	1	lb ai/a	PRE	100	10	92	93
8	Sencor	75	DF	0.38	lb ai/a	PRE				
8	Permit	75	DF	0.024	lb ai/a	POST				
8	Activator 90		L	0.25	% v/v	POST				
9	Dual II Magnum	7.64	L	1	lb ai/a	PRE	100	3	94	96
9	Sencor	75	DF	0.38	lb ai/a	PRE				
10	Dual II Magnum	7.64	L	1	lb ai/a	PRE	100	5	93	97
10	Sencor	75	DF	0.38	lb ai/a	PRE				
10	Matrix	25	WG	0.024	lb ai/a	POST				
10	Activator 90		L	0.25	% v/v	POST				
11	Non-Treated						100	0	7	0

LSD (P=.05)	0.0	16.6	23.4	24.3
Standard Deviation	0.0	9.8	13.7	14.3
CV	0.0	146.43	19.34	17.57