

## TOLERANCE OF HERBICIDE IN SILVERTON POTATOES, 2009

Trial ID: P0709 Study Dir.:  
 Conducted: MONTCALM RSCH FM Investigator: Christy Sprague

Date Planted: 4/24/09 Row Spacing: 34 IN  
 Variety: SILVERTON No. of Reps: 4  
 Population: 1/FT % OM: 1.2  
 Soil Type: Loamy Sand pH: 5.7  
 Plot Size: 9 X 25 FT Design: SPLIT-PLOT

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 T1	PRE T2&3
Date Treated:	5/17/09	5/20/09
Time Treated:		10:20 AM
% Cloud Cover:	25	0
Air Temp., Unit:	52 F	77 F
% Relative Humidity:	42	50
Wind Speed/Unit/Dir:	6 mph NW	8 mph SW
Soil Temp., Unit:	46 F	63 F
Soil/Leaf Surface M:	5	5
Soil Moist (1=w 5=d):	3	4

## Crop Stage at Each Application

	A	B
Crop Name:	SOLTU	SOLTU
Height (In.):	N/A	N/A

## Weed Stage at Each Application

	A	B
Weed 1 Name:	CHEAL	CHEAL
Height (In.):	.5	
Stage (L):	2	

## 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

Comments: TIMING STUDY HAD THREE PLANTING DATES:

TIMING 1: 4/24/09  
 TIMING 2: 5/8/09  
 TIMING 3: 5/20/09

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	SOLTU emerge percent 12 DA-A	SOLTU stunt percent 12 DA-A	SOLTU discolor percent 12 DA-A	SOLTU injury percent 12 DA-A	SOLTU stunt percent 17 DA-A	SOLTU discolor percent 17 DA-A	SOLTU injury percent 17 DA-A	SOLTU stunt percent 24 DA-A	SOLTU discolor percent 24 DA-A	SOLTU injury percent 24 DA-A	SOLTU injury percent 30 DA-A	SOLTU yield pounds HARVEST
1	PLANTING 1 1 Lorox	50	DF	1.5	lb ai/a	PRE	90	11	12	23	14	14	28	3	0	3	1	25.40
2	PLANTING 1 2 Sencor	75	DF	0.5	lb ai/a	PRE	94	5	0	5	4	3	5	9	0	9	1	29.45
3	PLANTING 1 3 Lorox	50	DF	1.5	lb ai/a	PRE	96	8	6	14	5	5	10	8	0	8	2	26.05
3	Sencor	75	DF	0.5	lb ai/a	PRE												
4	PLANTING 1 4 Non-Treated						96	1	0	1	5	3	8	14	0	14	0	27.55
5	PLANTING 2 5 Lorox	50	DF	1.5	lb ai/a	PRE					0	10	8	5	10	15	0	35.80
6	PLANTING 2 6 Sencor	75	DF	0.5	lb ai/a	PRE					0	4	3	0	0	0	2	38.80
7	PLANTING 2 7 Lorox	50	DF	1.5	lb ai/a	PRE					0	9	9	6	14	18	0	41.05
7	Sencor	75	DF	0.5	lb ai/a	PRE												
8	PLANTING 2 8 Non-Treated										0	3	0	5	5	10	1	35.75
9	PLANTING 3 9 Lorox	50	DF	1.5	lb ai/a	PRE								0	15	10	1	26.60
10	PLANTING 3 10 Sencor	75	DF	0.5	lb ai/a	PRE								0	5	5	2	27.85
11	PLANTING 3 11 Lorox	50	DF	1.5	lb ai/a	PRE								0	10	10	2	27.05
11	Sencor	75	DF	0.5	lb ai/a	PRE												
12	PLANTING 3 12 Non-Treated													0	5	5	0	33.40
LSD (P=.05)							5.4	10.7	6.6	15.6	5.6	9.1	10.5	8.4	9.1	14.5	2.1	8.377
Standard Deviation							3.4	6.7	4.2	9.7	3.8	6.2	7.1	5.8	6.3	10.1	1.4	5.801
CV							3.57	106.67	93.69	91.09	109.19	100.28	82.37	143.76	118.74	115.08	181.66	18.58

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Weed Code  
 Crop Code SOLTU  
 Rating Data Type yield  
 Rating Unit CWT  
 Rating Date 8/19/09  
 Trt-Eval Interval HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	yield
						13	
1	PLANTING 1						156.4
1	Lorox	50	DF	1.5	lb ai/a	PRE	
2	PLANTING 1						181.3
2	Sencor	75	DF	0.5	lb ai/a	PRE	
3	PLANTING 1						160.4
3	Lorox	50	DF	1.5	lb ai/a	PRE	
3	Sencor	75	DF	0.5	lb ai/a	PRE	
4	PLANTING 1						169.6
4	Non-Treated						
5	PLANTING 2						220.4
5	Lorox	50	DF	1.5	lb ai/a	PRE	
6	PLANTING 2						238.9
6	Sencor	75	DF	0.5	lb ai/a	PRE	
7	PLANTING 2						252.7
7	Lorox	50	DF	1.5	lb ai/a	PRE	
7	Sencor	75	DF	0.5	lb ai/a	PRE	
8	PLANTING 2						220.1
8	Non-Treated						
9	PLANTING 3						163.8
9	Lorox	50	DF	1.5	lb ai/a	PRE	
10	PLANTING 3						171.5
10	Sencor	75	DF	0.5	lb ai/a	PRE	
11	PLANTING 3						166.5
11	Lorox	50	DF	1.5	lb ai/a	PRE	
11	Sencor	75	DF	0.5	lb ai/a	PRE	
12	PLANTING 3						205.6
12	Non-Treated						
LSD (P=.05)							51.57
Standard Deviation							35.72
CV							18.58

ARM Action Codes

TY1 = 6.15689\*[12]