

MSU Weed Science Research Program

WEED CONTROL AND POTATO CROP TOLERANCE WITH V10142

Trial ID: P0408 Study Dir.:  
Conducted: MONTCALM RSH STA. Investigator: Wesley Everman

Date Planted: 5/12/08 Row Spacing: 34 IN  
Variety: Snowden No. of Reps: 4  
Population: 9.5 in space % OM: 1.1  
Soil Type: Loamy Sand pH: 5.1  
Plot Size: 10 X 25 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring disk X3  
Spring Chisel X 1  
Cultivate X 1  
Fertilizer: 12 gal 10-34-0 and 20 gal 19-17-0 on (5/12/08)  
150 lbs 46-0-0 (6-17-08)  
150 lbs 46-0-0 (6-27-08)

Crop Code Common Name  
1. SOLTU POTATO

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	5/28/08	6/18/08
Time Treated:	10:45 AM	2:40 PM
% Cloud Cover:	10	100
Air Temp., Unit:	60 F	67 F
% Relative Humidity:	41	64
Wind Speed/Unit/Dir:	0 mph	6 mph W
Soil Temp., Unit:	58 F	66 F
Soil/Leaf Surface M:	4 5	4 5
Soil Moist (1=w 5=d):	4	4

Crop Stage at Each Application

	A	B
Crop Name:	SOLTU	SOLTU
Height (In.):		12

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	CUB	3.5	FF	8003	18"	20"	120"	20	H20	30
B	CUB	3.5	FF	8003	18"	20"	100"	20	H20	30

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Weed Code							cheal		cheal		cheal	
Crop Code							SOLTU		SOLTU		SOLTU	
Rating Data Type							injury	control	injury	control	injury	control
Rating Unit							percent	percent	percent	percent	percent	percent
Rating Date							6/10/08	6/10/08	6/24/08	6/24/08	7/8/08	7/8/08
Trt-Eval Interval							13 DAPRE	13 DAPRE	27 DAPRE	27 DAPRE	20 DAPO	20 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6
1	V-10142	75	WG	6.4	oz/a	PRE	0	74	0	60	0	73
2	V-10142	75	WG	8.5	oz/a	PRE	1	61	0	80	0	83
3	V-10142	75	WG	10.67	oz/a	PRE	10	80	0	79	1	81
4	V-10142	75	WG	6.4	oz/a	PRE	9	69	0	75	1	87
4	V-10142	75	WG	6.4	oz/a	POST						
4	Activator 90		L	0.25	% v/v	POST						
5	V-10142	75	WG	8.5	oz/a	PRE	9	58	3	80	0	88
5	V-10142	75	WG	8.5	oz/a	POST						
5	Activator 90		L	0.25	% v/v	POST						
6	V-10142	75	WG	10.67	oz/a	PRE	1	76	1	83	0	88
6	V-10142	75	WG	8.5	oz/a	POST						
6	Activator 90		L	0.25	% v/v	POST						
7	Untreated						4	6	0	0	0	8
8	V-10142	75	WG	6.4	oz/a	PRE	6	89	3	85	1	93
8	Dual Magnum	7.62	L	1	pt/a	PRE						
8	V-10142	75	WG	8.5	oz/a	POST						
8	Activator 90		L	0.25	% v/v	POST						
9	Matrix	25	WG	1	oz/a	PRE	10	98	0	92	0	94
9	Dual Magnum	7.62	L	1	pt/a	PRE						
9	Matrix	25	WG	1	oz/a	POST						
9	Activator 90		L	0.25	% v/v	POST						
10	Dual Magnum	7.62	L	1	pt/a	PRE	3	100	0	95	0	95
10	Sencor	75	DF	4	oz/a	PRE						
10	V-10142	75	WG	8.5	oz/a	POST						
10	Activator 90		L	0.25	% v/v	POST						
11	Dual Magnum	7.62	L	1	pt/a	PRE	14	100	3	98	1	95
11	Sencor	75	DF	4	oz/a	PRE						
11	Matrix	25	WG	1	oz/a	POST						
11	Activator 90		L	0.25	% v/v	POST						
12	Chateau	51	WG	1.5	oz/a	PRE	91	95	29	85	3	85
13	Dual Magnum	7.62	L	1	pt/a	PRE	1	35	0	55	0	44
14	Dual Magnum	7.62	L	1	pt/a	PRE	9	100	6	96	3	91
14	Reflex	2	L	1	pt/a	PRE						
15	Boundary	6.5	EC	1.5	pt/a	PRE	8	100	0	97	0	94
16	Boundary	6.5	EC	1.5	pt/a	PRE	6	100	3	98	0	93
16	Reflex	2	L	0.5	pt/a	PRE						

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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	1	2	3	4	5	6
							13 DAPRE	13 DAPRE	27 DAPRE	27 DAPRE	20 DAPO	20 DA-B
							10.7	27.3	9.9	12.6	2.6	12.0
							7.5	19.1	7.0	8.8	1.9	8.4
							66.19	24.64	240.62	11.21	312.26	10.4

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Crop Code

SOLTU

Rating Data Type

Yield

Rating Unit

lbs/plot

Rating Date

9/12/08

Trt-Eval Interval

HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Yield
1	V-10142	75	WG	6.4	oz/a	PRE	32
2	V-10142	75	WG	8.5	oz/a	PRE	39
3	V-10142	75	WG	10.67	oz/a	PRE	41
4	V-10142	75	WG	6.4	oz/a	PRE	47
4	V-10142	75	WG	6.4	oz/a	POST	
4	Activator 90		L	0.25	% v/v	POST	
5	V-10142	75	WG	8.5	oz/a	PRE	42
5	V-10142	75	WG	8.5	oz/a	POST	
5	Activator 90		L	0.25	% v/v	POST	
6	V-10142	75	WG	10.67	oz/a	PRE	41
6	V-10142	75	WG	8.5	oz/a	POST	
6	Activator 90		L	0.25	% v/v	POST	
7	Untreated						9
8	V-10142	75	WG	6.4	oz/a	PRE	50
8	Dual Magnum	7.62	L	1	pt/a	PRE	
8	V-10142	75	WG	8.5	oz/a	POST	
8	Activator 90		L	0.25	% v/v	POST	
9	Matrix	25	WG	1	oz/a	PRE	51
9	Dual Magnum	7.62	L	1	pt/a	PRE	
9	Matrix	25	WG	1	oz/a	POST	
9	Activator 90		L	0.25	% v/v	POST	
10	Dual Magnum	7.62	L	1	pt/a	PRE	50
10	Sencor	75	DF	4	oz/a	PRE	
10	V-10142	75	WG	8.5	oz/a	POST	
10	Activator 90		L	0.25	% v/v	POST	
11	Dual Magnum	7.62	L	1	pt/a	PRE	55
11	Sencor	75	DF	4	oz/a	PRE	
11	Matrix	25	WG	1	oz/a	POST	
11	Activator 90		L	0.25	% v/v	POST	
12	Chateau	51	WG	1.5	oz/a	PRE	37
13	Dual Magnum	7.62	L	1	pt/a	PRE	24
14	Dual Magnum	7.62	L	1	pt/a	PRE	44
14	Reflex	2	L	1	pt/a	PRE	
15	Boundary	6.5	EC	1.5	pt/a	PRE	59
16	Boundary	6.5	EC	1.5	pt/a	PRE	53
16	Reflex	2	L	0.5	pt/a	PRE	

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Yield

Rating Unit

lbs/plot

Rating Date

9/12/08

Trt-Eval Interval

HARVEST

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	7
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LSD (P=.05)

8.8

Standard Deviation

6.1

CV

14.56