

MSU Weed Science Research Program

Potato Vine Kill

Trial ID: POT01-06
 Conducted: Montcalm

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/9/2006	Row Spacing: 34 IN
Variety: Snowden	No. of Reps: 6
Population: 12" seed spacing	% OM: 0.7
Soil Type: Sandy Loam	pH: 6.8
Plot Size: 10 X 30 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring Moldboard plow w/ plow rake

Crop	Code	Common Name
1.	SOLTU	POTATO

Application Description

	A	B
Application Timing:	Post	L. Post
Date Treated:	8/16/2006	8/23/2006
Time Treated:	3:30 pm	4:00 pm
% Cloud Cover:	10	100
Air Temp., Unit:	84 F	83 F
% Relative Humidity:	32	45
Wind Speed/Unit/Dir:	1 mph S	1 mph S
Soil Temp., Unit:	74 F	73 F
Soil/Leaf Surface M:	5 5	s s
Soil Moist (1=w 5=d):	5	s

Crop Stage at Each Application

	A	B
Crop Name:	SOLTU	SOLTU
Height (In.):	14-20"	12-14"
Stage (L):	5% flower	2% flower

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	41"	20"	120"	19	water	27
B	Cub	3.8	AirMix	11003	41"	20"	120"	19	water	27

Comments: Late Post- 8/23/06, Light rain approx. 4:30 pm, one half hour after application.

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Weed Code	Leaf	Vine	Leaf	Vine	SOLTU	SOLTU	SOLTU	SOLTU
Crop Code	SOLTU	SOLTU	SOLTU	SOLTU	Total B's	Total A's	Total Yield	SOLTU
Rating Data Type	desiccation	desiccation	desiccation	desiccation	cwt/acre	cwt/acre	cwt/acre	skin set
Rating Unit	percent	percent	percent	percent				0-10
Rating Date	8/23/2006	8/23/2006	8/30/2006	8/30/2006	9/1/2006	9/1/2006	9/1/2006	9/1/2006
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	14 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A
ARM Action Codes					TY1	TY4	T2	
# Subsamples, Dec.	0	0	0	0	1	1	1	1

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	Leaf	Vine	Leaf	Vine	Total B's	Total A's	Total Yield	skin set
1	Untreated						0	0	7	2	23.9	282.4	306.4	7.8
2	Rely	1	3	pt/a	POST	A	79	52	96	93	28.1	252.5	280.6	0.3
3	Reglone	2	1	pt/a	POST	A	72	57	98	97	23.2	245.6	268.9	0.0
3	Activator 90 NIS		0.25	% v/v	POST	A								
3	Reglone	2	1	pt/a	LPOS	B								
3	Activator 90 NIS		0.25	% v/v	LPOS	B								
4	Rely	1	3	pt/a	POST	A	92	52	99	98	33.0	257.3	290.3	0.3
4	AMS		3	lb/a	POST	A								
5	Reglone	2	2	pt/a	POST	A	95	70	98	98	28.9	247.0	275.9	0.0
5	Activator 90 NIS		0.25	% v/v	POST	A								
LSD (P=.05)							7.3	12.0	1.7	2.2	9.04	29.40	33.87	1.98
Standard Deviation							6.0	9.9	1.4	1.8	7.48	24.33	28.03	1.27
CV							8.92	21.6	1.78	2.33	27.28	9.47	9.86	76.25

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Weed Code		
Crop Code	SOLTU	SOLTU
Rating Data Type	stem end	Hollow hear
Rating Unit	0-10	0-10
Rating Date	9/1/2006	9/1/2006
Trt-Eval Interval	16 DA-A	16 DA-A
ARM Action Codes		
# Subsamples, Dec.	1	1

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code		
1	Untreated						0.8	0.0
2	Rely	1	3	pt/a	POST	A	1.7	0.0
3	Reglone	2	1	pt/a	POST	A	1.8	0.3
3	Activator 90 NIS		0.25	% v/v	POST	A		
3	Reglone	2	1	pt/a	LPOS	B		
3	Activator 90 NIS		0.25	% v/v	LPOS	B		
4	Rely	1	3	pt/a	POST	A	1.0	0.3
4	AMS		3	lb/a	POST	A		
5	Reglone	2	2	pt/a	POST	A	0.8	0.0
5	Activator 90 NIS		0.25	% v/v	POST	A		
LSD (P=.05)							1.63	0.45
Standard Deviation							1.05	0.29
CV							88.63	286.04