

MSU Weed Science Research Program

Potato Mini-Tuber Herbicide Evaluation

Trial ID: POT02-07
Conducted: East Lansing

Study Dir.: Sprague, Long, Powell
Investigator: Christy Sprague

Date Planted: 6/11/07	Row Spacing: 34 IN
Variety: See Comments	No. of Reps: 4
Population: 12" Spacing	% OM: 2.0
Soil Type: Sandy Loam	pH: 5.2
Plot Size: 10 X 40 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring Chisel Plow, Spring Soil Finish
Crop Common Name: Potato Mini Tuber

Application Description

A

Application Timing: Pre
Date Treated: 6/18/07
Time Treated: 5:00 pm
% Cloud Cover: 40
Air Temp., Unit: 91 F
% Relative Humidity: 38
Wind Speed/Unit/Dir: 7 mph SW
Soil Temp., Unit: 89 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A
Height (In.): -
Stage (L): -

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	22"	20"	100"	19	Water	27

Comments: Varieties- FL 1867 and FL 1922

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Weed Code	FL 1867	FL 1922	FL 1867	FL 1922
Crop Code	SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type	percent	percent	percent	percent
Rating Unit	injury	injury	injury	injury
Rating Date	7/11/07	7/11/07	7/23/07	7/23/07
Trt-Eval Interval	23 DA-A	23 DA-A	35 DA-A	35 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Dual II Magnum	7.64	L	1.33	pt/a	Pre	A	3	16	1	16
2	Prowl H2O	3.8	L	1.5	pt/a	Pre	A	11	8	5	6
3	Sencor	75	DF	0.67	lb/a	Pre	A	11	13	10	11
4	Lorox	50	DF	2	lb/a	Pre	A	9	21	8	19
5	Matrix	25	DF	1.5	oz/a	Pre	A	13	11	15	9
6	Outlook	6	L	14	fl oz/a	Pre		11	19	6	26
7	Chateau	51	DF	1.5	oz/a	Pre	A	85	90	80	90
8	Prowl H2O	3.8	L	0.5	pt/a	Pre	A	16	18	11	23
8	Sencor	75	DF	0.125	lb/a	Pre	A				
8	Dual II Magnum	7.64	L	1.33	pt/a	Pre	A				
9	Untreated					Pre	A	0	0	0	0
10	Prowl H2O	3.8	L	0.5	pt/a	Pre	A	3	10	3	20
10	Sencor	75	DF	0.125	lb/a	Pre	A				
10	Dual II Magnum	7.64	L	1.33	pt/a	Pre	A				
10	Roundup WeatherMax	4.5	L	22	oz/a	Pre	A				
10	Ammonium Sulfate		DF	17	lb/100 gal	Pre	A				

LSD (P=.05)	8.9	14.5	8.8	15.0
Standard Deviation	6.1	10.0	6.1	10.4
CV	38.06	48.83	43.85	47.09