

Moccasin MTZ preemergence weed control in potatoes

Trial ID: P03-18 Study Dir.: Burns, Craft
 Conducted: Montcalm Research Farm Investigator: Erin Burns

Planting Date: _____ **Row Spacing:** 34 IN
Variety: Snowden **No. of Reps:** 4
Population: 15370 seed/A **% OM:** 1.5
Soil Type: LOAM **pH:** 6.2
Plot Size: 10 X 20 FT **Study Design:** Randomized Complete Block (RCB)

Broadcast incorporated: 200 lbs/A 0-0-44-22 Mg-44 S, 150 lbs/A 0-0-0-32 Ca-24 S, 300 lbs/A 0-0-0-63 Ca-36 Mg, 6 lbs/A 0.6 lb. B, 350 lbs/A 0-0-217, 1 qt/A

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	DIGSA	large crabgrass	Digitaria sanguinalis
2	CHEAL	common lambsquarters	Chenopodium album
3	SOLAM	American black nightshade	Solanum americanum
4	AMARE	Redroot pigweed	Amaranthus retroflexus
5	CERAR	Field chickweed	Cerastium arvense
6	POLCO	wild buckwheat	Fallopia convolvulus
Crop	Code	Common Name	
1	SOLTU	Potato	

Application Description

Application Timing: A
Date Treated: CRACK
 May-23-2018
Time Treated: 2:00 PM
% Cloud Cover: 30
Air Temp., Unit: 75 F
% Relative Humidity: 40
Wind Speed/Unit/Dir: 1.5 MPH NW
Soil Temp, Unit: 80.1 F
Leaf Moist/Dew Presence (Y/N): 3
Soil Moist: 2

Crop Stage at Each Application

Crop 1 Name: A
 SOLTU
Height: _____
Stage: CRACK

Weed Stage at Each Application

Weed 1 Name: A
 DIGSA
Height: _____
Stage: _____
Weed 2 Name: CHEAL
Height: _____
Stage: _____
Weed 3 Name: SOLAM
Height: _____
Stage: _____
Weed 4 Name: AMARE
Height: _____
Stage: _____
Weed 5 Name: CERAR
Height: _____
Stage: _____
Weed 6 Name: POLCO
Height: _____
Stage: _____

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	BKPK	3.5 MPH	AIXR	1100	22 IN	20 IN	100 IN	19 GPA	WATER	30 PSI

Comments:

Michigan State University

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Pest Code		DIGSA	CHEAL	SOLAM	AMARE	POLCO		DIGSA		
Crop Code	SOLTU						SOLTU			
Rating Date	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-13-2018	Jun-13-2018		
Rating Type	injury	control	control	control	control	control	injury	control		
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent		
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	21 DA-A	21 DA-A		
Trt No.	Treatment Name	Rate	Appl							
		Rate Unit	Code							
1	Boundary	32 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0	100.0
2	Moccasin MTZ	32 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0	100.0
3	Moccasin MTZ	40 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0	100.0
4	Tripzin ZC	42 fl oz/a	A	0.0	100.0	100.0	100.0	100.0	0.0	100.0
5	Untreated			0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD P=.05			
Standard Deviation				0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV				0.0	0.0	0.0	0.0	0.0	0.0	0.0

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 because error mean square = 0.

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Pest Code		CHEAL	SOLAM	AMARE	CERAR	POLCO	SOLTU	DIGSA	CHEAL
Crop Code									
Rating Date		Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jul-11-2018	Jul-11-2018	Jul-11-2018
Rating Type		control	control	control	control	control	injury	control	control
Rating Unit		percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval		21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	49 DA-A	49 DA-A	49 DA-A
Trt No.	Treatment Name	Rate	Appl						
		Rate Unit	Code						
1	Boundary	32 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	100.0
2	Moccasin MTZ	32 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	100.0
3	Moccasin MTZ	40 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	100.0
4	Tripzin ZC	42 fl oz/a	A	100.0	100.0	100.0	100.0	100.0	100.0
5	Untreated			0.0	0.0	0.0	0.0	0.0	0.0
	LSD P=.05			0.00	0.00	0.00	0.00	0.00	0.00
	Standard Deviation			0.0	0.0	0.0	0.0	0.0	0.0
	CV			0.0	0.0	0.0	0.0	0.0	0.0

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