

Weed control with SA-0370104 programs in potato

Trial ID: P01-18
 Conducted: Montcalm Research Farm

Study Dir.: Burns, Craft
 Investigator: Erin Burns

Planting Date: May-8-2018
Variety: Snowden
Population: 15370 seed/A
Soil Type: SL sandy loam
Plot Size: 10 X 20 FT

Row Spacing: 34 IN
No. of Reps: 4
% OM: 1.4
pH: 6.1
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	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: 1:00 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: 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	CHEAL		
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	Jun-13-2018		
Rating Type		injury	control	control	control	control	control	injury	control	control		
Rating Unit		percent	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	21 DA-A		
Trt No.	Treatment Name	Rate	Appl									
		Rate Unit	Code									
1	Sencor	10.7 oz/a	A	0	100	100	100	100	100	0	99	100
2	SA-0370104	3.2 fl oz/a	A	0	95	98	100	99	100	0	88	98
2	Sencor	5.3 oz/a	A									
3	SA-0370104	4.3 fl oz/a	A	0	98	100	100	100	100	0	91	100
3	Sencor	5.3 oz/a	A									
4	SA-0370104	6.4 fl oz/a	A	0	100	100	100	100	100	0	100	100
4	Sencor	5.3 oz/a	A									
5	Untreated			0	0	0	0	0	0	0	0	0
6	SA-0370104	8.5 fl oz/a	A	0	100	100	100	100	100	0	99	100
6	Sencor	5.3 oz/a	A									
7	Bismark	27.4 fl oz/a	A	0	100	100	100	100	100	0	100	100
7	Sencor	5.3 oz/a	A									
LSD P=.05				.	5.5	2.9	.	1.4	.	.	14.6	2.9
Standard Deviation				0.0	3.7	1.9	0.0	0.9	0.0	0.0	9.8	1.9
CV				0.0	4.38	2.28	0.0	1.1	0.0	0.0	11.96	2.28

Could not calculate LSD (% mean diff) for columns 1,4,6,7,10,12,13 because error mean square = 0.

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Pest Code		SOLAM	AMARE	POLCO	SOLTU	DIGSA	CHEAL	AMARE		
Crop Code										
Rating Date		Jun-13-2018	Jun-13-2018	Jun-13-2018	Jul-11-2018	Jul-11-2018	Jul-11-2018	Jul-11-2018		
Rating Type		control	control	control	injury	control	control	control		
Rating Unit		percent	percent	percent	percent	percent	percent	percent		
Trt-Eval Interval		21 DA-A	21 DA-A	21 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A		
Trt No.	Treatment Name	Rate	Appl							
		Rate Unit	Code							
1	Sencor	10.7 oz/a	A	100	100	100	0	98	100	100
2	SA-0370104	3.2 fl oz/a	A	100	99	100	0	88	88	88
2	Sencor	5.3 oz/a	A							
3	SA-0370104	4.3 fl oz/a	A	100	100	100	0	96	100	100
3	Sencor	5.3 oz/a	A							
4	SA-0370104	6.4 fl oz/a	A	100	100	100	0	98	100	100
4	Sencor	5.3 oz/a	A							
5	Untreated			0	0	0	0	0	0	0
6	SA-0370104	8.5 fl oz/a	A	100	100	100	0	100	100	100
6	Sencor	5.3 oz/a	A							
7	Bismark	27.4 fl oz/a	A	100	100	100	0	100	100	100
7	Sencor	5.3 oz/a	A							
LSD P=.05				.	1.4	.	.	14.8	14.0	14.0
Standard Deviation				0.0	0.9	0.0	0.0	10.0	9.4	9.4
CV				0.0	1.1	0.0	0.0	12.06	11.2	11.26

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