MSU Weed Science Research Program

WEED CONTROL IN POTATO WITH REFLEX, 2008

Trial ID: P0208 Study Dir.: Potato Commission
Conducted: MONTCALM RSCH 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:** 1.6
Soil Type: Loamy Sand **pH:** 5.6
Plot Size: 10 **X** 20 **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
Application Timing:	PRE
Date Treated:	5/28/08
Time Treated:	11:55 AM
% Cloud Cover:	10
Air Temp., Unit:	72 F
% Relative Humidity:	54
Wind Speed/Unit/Dir:	0 mph
Soil Temp., Unit:	55 F
Soil/Leaf Surface M:	4 5
Soil Moist (1=w 5=d):	4

Crop Stage at Each Application

	A
Crop Name:	SOLTU

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

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6
Weed Code								cheal	amare	abuth		cheal
Crop Code							SOLTU				SOLTU	
Rating Data Type							injury	control	control	control	injury	control
Rating Unit							percent	percent	percent	percent	percent	percent
Rating Date							6/10/08	6/10/08	6/10/08	6/10/08	6/24/08	6/24/08
Trt-Eval Interval							13 DAPRE	13 DAPRE	13 DAPRE	13 DAPRE	27 DAPRE	27 DAPRE
1	Untreated						0	0	0	0	0	0
2	Reflex	2	L	1	pt/a	PRE	11	38	100	98	0	28
3	Reflex	2	L	2	pt/a	PRE	3	56	75	98	0	53
4	Dual Magnum	7.62	L	1	pt/a	PRE	4	5	33	25	0	35
5	Reflex	2	L	1	pt/a	PRE	15	91	100	95	0	82
5	Dual Magnum	7.62	L	1	pt/a	PRE						
6	Boundary	6.5	EC	1.5	pt/a	PRE	5	89	100	100	0	75
7	Boundary	6.5	EC	1.5	pt/a	PRE	16	100	100	100	0	93
7	Reflex	2	L	1	pt/a	PRE						
8	Boundary	6.5	EC	1.5	pt/a	PRE	15	100	100	99	0	93
8	Reflex	2	L	0.5	pt/a	PRE						
9	Dual Magnum	7.62	L	1	pt/a	PRE	4	81	100	99	0	74
9	Sencor	75	DF	4	oz/a	PRE						
10	Dual Magnum	7.62	L	1	pt/a	PRE	11	94	100	96	0	83
10	Matrix	25	WG	1	oz/a	PRE						
11	Prowl H2O	3.8	L	1.6	pt/a	PRE	9	75	100	95	0	63
11	Reflex	2	L	1	pt/a	PRE						
12	Prowl H2O	3.8	L	1.6	pt/a	PRE	8	75	100	98	0	71
12	Reflex	2	L	2	pt/a	PRE						
LSD (P=.05)							9.0	20.1	28.0	21.6	0.0	14.8
Standard Deviation							6.2	13.9	19.4	15.0	0.0	10.3
CV							74.83	20.81	23.14	17.92	0.0	16.51

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Weed Code							amare	abuth		cheal		
Crop Code									SOLTU		SOLTU	SOLTU
Rating Data Type							control	control	injury	control	yield	YIELD
Rating Unit							percent	percent	percent	percent	lbs/plot	CWT
Rating Date							6/24/08	6/24/08	7/22/08	7/22/08	9/18/08	9/18/08
Trt-Eval Interval							27 DAPRE	27 DAPRE	55 DAPRE	55 DAPRE	HARVEST	HARVEST
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	7	8	9	10	11	12
1	Untreated						0	0	0	0	2.3	17.3
2	Reflex	2	L	1	pt/a	PRE	83	79	0	3	5.8	44.2
3	Reflex	2	L	2	pt/a	PRE	100	86	0	5	8.1	61.9
4	Dual Magnum	7.62	L	1	pt/a	PRE	87	60	0	0	2.5	18.8
5	Reflex	2	L	1	pt/a	PRE	100	95	0	65	29.0	222.5
5	Dual Magnum	7.62	L	1	pt/a	PRE						
6	Boundary	6.5	EC	1.5	pt/a	PRE	100	100	0	53	21.0	161.4
7	Boundary	6.5	EC	1.5	pt/a	PRE	100	100	0	94	45.1	346.3
7	Reflex	2	L	1	pt/a	PRE						
8	Boundary	6.5	EC	1.5	pt/a	PRE	100	100	0	91	37.2	285.6
8	Reflex	2	L	0.5	pt/a	PRE						
9	Dual Magnum	7.62	L	1	pt/a	PRE	100	100	0	28	17.6	134.9
9	Sencor	75	DF	4	oz/a	PRE						
10	Dual Magnum	7.62	L	1	pt/a	PRE	100	100	0	41	21.9	168.0
10	Matrix	25	WG	1	oz/a	PRE						
11	Prowl H2O	3.8	L	1.6	pt/a	PRE	100	98	0	8	17.4	133.4
11	Reflex	2	L	1	pt/a	PRE						
12	Prowl H2O	3.8	L	1.6	pt/a	PRE	100	100	0	18	9.2	70.7
12	Reflex	2	L	2	pt/a	PRE						
LSD (P=.05)							12.6	27.4	0.0	20.5	11.45	88.05
Standard Deviation							8.7	19.0	0.0	14.2	7.93	60.98
CV							9.79	22.37	0.0	42.18	43.95	43.95

ARM Action Codes
TY1 = 7.687068*[11]