

**WEED CONTROL IN POTATO WITH REFLEX, 2009**

Trial ID: P0209 Study Dir.: Andy Chomas  
 Conducted: MONTCALM RSH FARM Investigator: Christy Sprague

Date Planted: 5/11/09 Row Spacing: 34 IN  
 Variety: SNOWDEN No. of Reps: 4  
 Population: 1/FT % OM: 2.7  
 Soil Type: Loamy Sand pH: 5.6  
 Plot Size: 10 X 20 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring Disc 3X. Spring Chisel. Field Cultivated.  
 Fertilizer: 20 gal/A of 19-17-0, 12 gal/A of 10-34-0 in Row. 23 gal/A of 28% N at Cultivation. 23 gal/A of 28%N at Hilling. 100 lbs/A of 46-0-0 Broadcast.

**Application Description**

	A	B
Application Timing:	PRE	CRACK
Date Treated:	5/11/09	5/29/09
Time Treated:	5:00 PM	10:30 AM
% Cloud Cover:	80	40
Air Temp., Unit:	61 F	65 F
% Relative Humidity:	30	73
Wind Speed/Unit/Dir:	6 mph SW	2 mph W
Soil Temp., Unit:	68 F	
Soil/Leaf Surface M:		5
Soil Moist (1=w 5=d):	5	2

**Crop Stage at Each Application**

	A	B
Crop Name:	SOLTU	SOLTU
Stage (L):		CRACK

**Weed Stage at Each Application**

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):		.25
Stage (L):		1
Weed 2 Name:	CHEAL	CHEAL
Height (In.):		.25-1(.5)
Stage (L):		Cot-2(1)
Weed 3 Name:	AMARE	AMARE
Height (In.):		.25-5(.3)
Stage (L):		Cot-2(1)
Weed 4 Name:	ABUTH	ABUTH
Height (In.):		.25
Stage (L):		Cot
Weed 5 Name:	ECHCG	ECHCG
Weed 6 Name:	MELAL	MELAL

**Weed Density (plants/sq. ft.)**

Date:	5/29/09
Weed Name:	ANGR
Density:	2
Date:	5/29/09
Weed Name:	CHEAL
Density:	6
Date:	5/29/09
Weed Name:	AMARE
Density:	<1
Date:	5/29/09
Weed Name:	ABUTH
Density:	<1

**Application Equipment**

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	BKPK	3.5	FF	8003	18"	20"	120"	20	H20	30
B	BKPK	3.5	FF	8003	18"	20"	120"	20	H20	30

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Weed Code						ANGR		CHEAL	AMARE	ABUTH	ECHCG					CHEAL	
Crop Code						SOLTU						SOLTU	SOLTU	SOLTU			
Rating Data Type						injury		control	control	control	control	stunt	discolor	injury			
Rating Unit						percent		percent	percent	percent	percent	percent	percent	percent			
Rating Date						6/3/09		6/3/09	6/3/09	6/3/09	6/3/09	6/3/09	6/10/09	6/10/09	6/10/09		
Trt-Eval Interval						7 DACRK		7 DACRK	7 DACRK	7 DACRK	7 DACRK	7 DACRK	14 DACRK	14 DACRK	14 DACRK		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	9	10	
1	Non-Treated						0	0	0	0	0	0	1	0	1	0	
2	Reflex	2	L	1	pt/a	PRE	0	100	86	100	83	100	3	0	3	71	
3	Reflex	2	L	2	pt/a	PRE	0	100	95	100	96	100	0	0	0	84	
4	Dual Magnum	7.62	L	1	pt/a	PRE	0	100	74	95	75	100	3	0	3	71	
5	Reflex	2	L	1	pt/a	PRE	0	99	96	100	91	100	5	0	5	96	
5	Dual Magnum	7.62	L	1	pt/a	PRE											
6	Boundary	6.5	EC	1.5	pt/a	PRE	0	100	68	99	76	100	5	0	5	72	
7	Boundary	6.5	EC	1.5	pt/a	PRE	3	96	95	100	98	100	3	0	3	90	
7	Reflex	2	L	1	pt/a	PRE											
8	Boundary	6.5	EC	1.5	pt/a	PRE	0	94	92	100	91	94	13	0	13	86	
8	Reflex	2	L	0.5	pt/a	PRE											
9	Dual Magnum	7.62	L	1	pt/a	PRE	0	100	89	100	98	100	0	0	0	96	
9	Sencor	75	DF	4	oz/a	PRE											
10	Dual Magnum	7.62	L	1	pt/a	PRE	1	100	95	100	99	100	4	0	4	95	
10	Matrix	25	WG	1	oz/a	PRE											
11	Reflex	2	L	2	pt/a	CRACK	6	86	93	100	98	88	11	0	11	100	
12	Boundary	6.5	EC	1.5	pt/a	CRACK	4	100	100	100	100	100	3	0	3	100	
12	Reflex	2	L	1	pt/a	CRACK											
LSD (P=.05)							4.9	11.8	18.8	4.3	26.1	11.8	7.6	0.0	7.6	22.2	
Standard Deviation							3.4	8.2	13.0	3.0	18.0	8.2	5.3	0.0	5.3	15.4	
CV							297.65	9.11	15.94	3.29	21.58	9.06	130.36	0.0	130.36	19.27	

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Weed Code		AMARE		ABUTH		ECHCG		MELAL		CHEAL		AMARE		ABUTH		ANGR		SOLTU		ANGR	
Crop Code																		injury		control	
Rating Data Type		control		control		control		control		control		control		control		control		injury		control	
Rating Unit		percent		percent		percent		percent		percent		percent		percent		percent		percent		percent	
Rating Date		6/10/09		6/10/09		6/10/09		6/10/09		6/23/09		6/23/09		6/23/09		6/23/09		7/20/09		7/20/09	
Trt-Eval Interval		14 DACRK		14 DACRK		14 DACRK		14 DACRK		27 DACRK		27 DACRK		27 DACRK		27 DACRK		54 DACRK		54 DACRK	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg															
1	Non-Treated						11	12	13	14	15	16	17	18	19	20					
2	Reflex	2	L	1	pt/a	PRE	100	65	80	10	79	100	85	98	0	69					
3	Reflex	2	L	2	pt/a	PRE	100	93	96	78	83	100	100	99	0	65					
4	Dual Magnum	7.62	L	1	pt/a	PRE	98	90	98	68	53	75	70	98	0	88					
5	Reflex	2	L	1	pt/a	PRE	100	73	99	83	93	100	100	100	0	91					
5	Dual Magnum	7.62	L	1	pt/a	PRE															
6	Boundary	6.5	EC	1.5	pt/a	PRE	78	76	93	100	70	90	83	100	0	88					
7	Boundary	6.5	EC	1.5	pt/a	PRE	100	90	91	96	78	100	100	95	0	80					
7	Reflex	2	L	1	pt/a	PRE															
8	Boundary	6.5	EC	1.5	pt/a	PRE	100	94	95	100	80	100	100	100	0	89					
8	Reflex	2	L	0.5	pt/a	PRE															
9	Dual Magnum	7.62	L	1	pt/a	PRE	100	80	98	88	86	100	100	100	0	84					
9	Sencor	75	DF	4	oz/a	PRE															
10	Dual Magnum	7.62	L	1	pt/a	PRE	100	95	99	100	89	100	100	99	0	76					
10	Matrix	25	WG	1	oz/a	PRE															
11	Reflex	2	L	2	pt/a	CRACK	100	95	71	100	93	98	98	95	0	59					
12	Boundary	6.5	EC	1.5	pt/a	CRACK	100	100	90	100	96	100	100	98	0	75					
12	Reflex	2	L	1	pt/a	CRACK															
LSD (P=.05)							18.9	26.5	19.1	22.2	24.4	15.6	27.9	4.8	0.0	21.3					
Standard Deviation							13.1	18.4	13.2	15.4	16.9	10.8	19.3	3.3	0.0	14.8					
CV							14.64	23.21	15.75	20.01	22.61	12.23	22.33	3.68	0.0	20.52					

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Weed Code		CHEAL		AMARE		ABUTH		SOLTU		SOLTU		SOLTU		SOLTU		SOLTU		
Crop Code		control		control		control		<1 7/8"		<1 7/8"		PickOut		PickOut		Grade A		
Rating Data Type		percent		percent		percent		kilogram		count		kilogram		count		kilogram		
Rating Unit		7/20/09		7/20/09		7/20/09		9/1/09		9/1/09		9/1/09		9/1/09		9/1/09		
Rating Date		54 DACRK		54 DACRK		54 DACRK		HARVEST		HARVEST		HARVEST		HARVEST		HARVEST		
Trt-Eval Interval		21		22		23		24		25		26		27		28		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg												
1	Non-Treated						0	0	0	1.7413	45	0	1	4.0713	44	4.0713		
2	Reflex	2	L	1	pt/a	PRE	54	96	46	2.1925	45	0	0	5.1850	58	5.1850		
3	Reflex	2	L	2	pt/a	PRE	72	100	75	2.0738	48	0	1	6.1263	63	6.1263		
4	Dual Magnum	7.62	L	1	pt/a	PRE	35	65	58	2.4213	58	0	0	3.8825	40	3.8825		
5	Reflex	2	L	1	pt/a	PRE	74	100	72	2.1138	50	0	0	6.2213	62	6.2213		
5	Dual Magnum	7.62	L	1	pt/a	PRE												
6	Boundary	6.5	EC	1.5	pt/a	PRE	50	90	83	1.8750	51	0	0	4.5825	48	4.5825		
7	Boundary	6.5	EC	1.5	pt/a	PRE	64	99	97	1.5413	35	0	1	4.7613	52	4.7613		
7	Reflex	2	L	1	pt/a	PRE												
8	Boundary	6.5	EC	1.5	pt/a	PRE	68	94	70	1.8450	44	0	0	8.4088	80	5.7450		
8	Reflex	2	L	0.5	pt/a	PRE												
9	Dual Magnum	7.62	L	1	pt/a	PRE	63	100	96	1.7388	43	0	0	6.5838	63	6.5838		
9	Sencor	75	DF	4	oz/a	PRE												
10	Dual Magnum	7.62	L	1	pt/a	PRE	59	100	97	1.9613	50	0	0	5.0900	57	5.0900		
10	Matrix	25	WG	1	oz/a	PRE												
11	Reflex	2	L	2	pt/a	CRACK	86	100	99	1.5025	33	0	0	8.0825	72	8.0825		
12	Boundary	6.5	EC	1.5	pt/a	CRACK	87	100	100	2.3888	48	0	0	7.5338	79	7.5338		
12	Reflex	2	L	1	pt/a	CRACK												
LSD (P=.05)							26.8	22.1	38.4	1.00975	23.4	0.1	0.9	3.36617	27.6	3.64321		
Standard Deviation							18.6	15.3	26.6	0.69932	16.2	0.1	0.6	2.33129	19.1	2.52316		
CV							31.36	17.61	35.78	35.87	35.44	305.05	259.69	39.67	32.07	44.61		

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Weed Code										
Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	SOLTU
Rating Data Type						wet	SPEC. GRAV.	HH	VD	IBS
Rating Unit								0-10	0-10	0-10
Rating Date						9/1/09	9/1/09	9/1/09	9/1/09	9/1/09
Trt-Eval Interval						HARVEST	HARVEST	HARVEST	HARVEST	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	31	32	33	34	35
1	Non-Treated						0.32050	1.0865670	0	1	0
2	Reflex	2	L	1	pt/a	PRE	0.41713	1.0877796	0	0	0
3	Reflex	2	L	2	pt/a	PRE	0.49750	1.0884031	0	0	0
4	Dual Magnum	7.62	L	1	pt/a	PRE	0.30600	1.0867735	0	2	0
5	Reflex	2	L	1	pt/a	PRE	0.49625	1.0860866	0	0	0
5	Dual Magnum	7.62	L	1	pt/a	PRE					
6	Boundary	6.5	EC	1.5	pt/a	PRE	0.35125	1.0804309	0	1	0
7	Boundary	6.5	EC	1.5	pt/a	PRE	0.37438	1.0858561	0	1	0
7	Reflex	2	L	1	pt/a	PRE					
8	Boundary	6.5	EC	1.5	pt/a	PRE	0.45313	1.0820409	0	1	0
8	Reflex	2	L	0.5	pt/a	PRE					
9	Dual Magnum	7.62	L	1	pt/a	PRE	0.50975	1.0839401	0	1	0
9	Sencor	75	DF	4	oz/a	PRE					
10	Dual Magnum	7.62	L	1	pt/a	PRE	0.40325	1.0864125	0	1	0
10	Matrix	25	WG	1	oz/a	PRE					
11	Reflex	2	L	2	pt/a	CRACK	0.64888	1.0883949	0	0	0
12	Boundary	6.5	EC	1.5	pt/a	CRACK	0.58213	1.0839484	0	1	0
12	Reflex	2	L	1	pt/a	CRACK					
LSD (P=.05)							0.291159	0.00775012	0.3	1.4	0.4
Standard Deviation							0.201646	0.00536744	0.2	1.0	0.3
CV							45.14	0.49	497.27	119.97	411.94

## ARM Action Codes

T1 = ([30])/([30]-[31])