

MSU Weed Science Research Program

Herbicide Effect on Growth Cracks in Production Potatoes, Walthers, 2002

Trial ID: P0608
Conducted: Walther Fms

Study Dir.: Andy Chomas
Investigator: Wesley Everman

Date Planted: Row Spacing: IN
Variety: No. of Reps: 3
Population: 11 inch % OM:
Soil Type: pH:
Plot Size: 10 X 20 FT Design: FACTORIAL

Tillage: Fall Chisel, Spring Chisel
Fertilizer: 100# N at Planting, 130# N sidedress.
Crop Code Common Name
1. SOLTU POTATO

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	4/30/08	6/19/08
Time Treated:	8:00 PM	9:00 AM
% Cloud Cover:	20	10
Air Temp., Unit:	56 F	70 F
% Relative Humidity:	52	53
Wind Speed/Unit/Dir:	0 mph SE	0 mph
Soil Temp., Unit:	15 c	17 c
Soil/Leaf Surface M:	5 5	4 3
Soil Moist (1=w 5=d):	5	4

Crop Stage at Each Application

	A	B
Crop Name:	SOLTU	SOLTU

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Nozzle Width	Boom GPA	Carrier	PSI
A	BKPK	3.5	FF	8003	20	20	100	20	H20	30
B	BKPK	3.5	FF	8003	18	20	100	20	H20	30

Comments: HH = Hollow Heart VD = Vascular Disease IBS Internal Brown Spot BC Bacterial Ring Rot

Water damage to plots 104, 108, 204,208,304 and 308

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Crop Code	SOLTU	SOLTU	Grade B	Grade B	Pick-out	Pick-out
Rating Data Type	occurrence	severity	count	weight/plot	weight/plot	weight/plot
Rating Unit	1-5	1-5	number	kilogram	count	kilogram
Rating Date	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08	9/12/08
Trt-Eval Interval	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6
1	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	1	12	0.617	2	0
1	Sencor	75	DF	0.33	lb/a	PRE						
1	Prowl H2O	3.8	L	0.5	pt/a	PRE						
1	Sencor	75	DF	0.33	lb/a	POST						
1	Activator 90		L	0.25	% v/v	POST						
2	Dual Magnum	7.62	EC	1.33	pt/a	PRE	3	3	12	0.672	7	2
2	Sencor	75	DF	0.33	lb/a	PRE						
2	Prowl H2O	3.8	L	0.5	pt/a	PRE						
2	Matrix	25	WG	1	oz/a	POST						
2	Activator 90		L	0.25	% v/v	POST						
3	Dual Magnum	7.62	EC	1.33	pt/a	PRE	1	1	7	0.319	1	0
3	Sencor	75	DF	0.33	lb/a	PRE						
3	Prowl H2O	3.8	L	0.5	pt/a	PRE						
3	Sencor	75	DF	0.33	lb/a	POST						
3	Matrix	25	WG	1	oz/a	POST						
3	Activator 90		L	0.25	% v/v	POST						
4	Dual Magnum	7.62	EC	1.33	pt/a	PRE	2	2	17	0.846	6	1
4	Sencor	75	DF	0.33	lb/a	PRE						
4	Prowl H2O	3.8	L	0.5	pt/a	PRE						
4	Non-Treated											
5	Dual Magnum	7.62	EC	1.33	pt/a	PRE	2	2	37	0.768	5	1
5	Sencor	75	DF	0.33	lb/a	PRE						
5	Lorox	50	DF	1	lb/a	PRE						
5	Sencor	75	DF	0.33	lb/a	POST						
5	Activator 90		L	0.25	% v/v	POST						
6	Dual Magnum	7.62	EC	1.33	pt/a	PRE	2	3	12	0.637	9	2
6	Sencor	75	DF	0.33	lb/a	PRE						
6	Lorox			1	pt/a	PRE						
6	Matrix	25	WG	1	oz/a	POST						
6	Activator 90		L	0.25	% v/v	POST						
7	Dual Magnum	7.62	EC	1.33	pt/a	PRE	1	2	9	0.513	4	1
7	Sencor	75	DF	0.33	lb/a	PRE						
7	Lorox	50	DF	1	lb/a	PRE						
7	Sencor	75	DF	0.33	lb/a	POST						
7	Matrix	25	WG	1	oz/a	POST						
7	Activator 90		L	0.25	% v/v	POST						
8	Dual Magnum	7.62	EC	1.33	pt/a	PRE	3	3	8	0.371	12	3
8	Sencor	75	DF	0.33	lb/a	PRE						
8	Lorox	50	DF	1	lb/a	PRE						
8	Non-Treated											

LSD (P=.05)	1.5	1.6	23.2	0.3669	6.1	1.9
Standard Deviation	0.9	0.9	13.3	0.2095	3.5	1.1
CV	51.83	41.83	92.85	35.34	60.16	75.96

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Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Oversize weight/plot count 9/12/08 HARVEST
 Oversize weight/plot kilogram 9/12/08 HARVEST
 Grade A weight/plot count 9/12/08 HARVEST
 Grade A weight/plot kilogram 9/12/08 HARVEST
 Wet weight/plot kilogram 9/12/08 HARVEST
 HH defect of ten 9/12/08 HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	7	8	9	10	11	12
1	Dual Magnum	7.62	EC	1.33	pt/a	PRE	7	2.416	51	8.954	0.799	0
1	Sencor	75	DF	0.33	lb/a	PRE						
1	Prowl H2O	3.8	L	0.5	pt/a	PRE						
1	Sencor	75	DF	0.33	lb/a	POST						
1	Activator 90		L	0.25	% v/v	POST						
2	Dual Magnum	7.62	EC	1.33	pt/a	PRE	9	3.266	56	9.376	0.768	0
2	Sencor	75	DF	0.33	lb/a	PRE						
2	Prowl H2O	3.8	L	0.5	pt/a	PRE						
2	Matrix	25	WG	1	oz/a	POST						
2	Activator 90		L	0.25	% v/v	POST						
3	Dual Magnum	7.62	EC	1.33	pt/a	PRE	6	2.436	35	6.621	0.523	0
3	Sencor	75	DF	0.33	lb/a	PRE						
3	Prowl H2O	3.8	L	0.5	pt/a	PRE						
3	Sencor	75	DF	0.33	lb/a	POST						
3	Matrix	25	WG	1	oz/a	POST						
3	Activator 90		L	0.25	% v/v	POST						
4	Dual Magnum	7.62	EC	1.33	pt/a	PRE	6	2.018	45	7.073	0.527	0
4	Sencor	75	DF	0.33	lb/a	PRE						
4	Prowl H2O	3.8	L	0.5	pt/a	PRE						
4	Non-Treated											
5	Dual Magnum	7.62	EC	1.33	pt/a	PRE	22	8.740	48	8.002	0.703	0
5	Sencor	75	DF	0.33	lb/a	PRE						
5	Lorox	50	DF	1	lb/a	PRE						
5	Sencor	75	DF	0.33	lb/a	POST						
5	Activator 90		L	0.25	% v/v	POST						
6	Dual Magnum	7.62	EC	1.33	pt/a	PRE	6	2.349	34	5.350	0.490	1
6	Sencor	75	DF	0.33	lb/a	PRE						
6	Lorox			1	pt/a	PRE						
6	Matrix	25	WG	1	oz/a	POST						
6	Activator 90		L	0.25	% v/v	POST						
7	Dual Magnum	7.62	EC	1.33	pt/a	PRE	14	5.307	46	8.263	0.659	0
7	Sencor	75	DF	0.33	lb/a	PRE						
7	Lorox	50	DF	1	lb/a	PRE						
7	Sencor	75	DF	0.33	lb/a	POST						
7	Matrix	25	WG	1	oz/a	POST						
7	Activator 90		L	0.25	% v/v	POST						
8	Dual Magnum	7.62	EC	1.33	pt/a	PRE	14	5.354	33	5.626	0.440	0
8	Sencor	75	DF	0.33	lb/a	PRE						
8	Lorox	50	DF	1	lb/a	PRE						
8	Non-Treated											
LSD (P=.05)							11.5	4.5800	25.3	4.2448	0.4454	0.8
Standard Deviation							6.5	2.6151	14.4	2.4237	0.2543	0.4
CV							62.54	65.61	33.2	32.72	41.43	261.86

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Crop Code	VD	IBS	BC
Rating Data Type	defect	defect	defect
Rating Unit	of ten	of ten	of ten
Rating Date	9/12/08	9/12/08	9/12/08
Trt-Eval Interval	HARVEST	HARVEST	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	13	14	15
1	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	0	0
1	Sencor	75	DF	0.33	lb/a	PRE			
1	Prowl H2O	3.8	L	0.5	pt/a	PRE			
1	Sencor	75	DF	0.33	lb/a	POST			
1	Activator 90		L	0.25	% v/v	POST			
2	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	0	1
2	Sencor	75	DF	0.33	lb/a	PRE			
2	Prowl H2O	3.8	L	0.5	pt/a	PRE			
2	Matrix	25	WG	1	oz/a	POST			
2	Activator 90		L	0.25	% v/v	POST			
3	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	1	0
3	Sencor	75	DF	0.33	lb/a	PRE			
3	Prowl H2O	3.8	L	0.5	pt/a	PRE			
3	Sencor	75	DF	0.33	lb/a	POST			
3	Matrix	25	WG	1	oz/a	POST			
3	Activator 90		L	0.25	% v/v	POST			
4	Dual Magnum	7.62	EC	1.33	pt/a	PRE	1	0	0
4	Sencor	75	DF	0.33	lb/a	PRE			
4	Prowl H2O	3.8	L	0.5	pt/a	PRE			
4	Non-Treated								
5	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	0	0
5	Sencor	75	DF	0.33	lb/a	PRE			
5	Lorox	50	DF	1	lb/a	PRE			
5	Sencor	75	DF	0.33	lb/a	POST			
5	Activator 90		L	0.25	% v/v	POST			
6	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	0	0
6	Sencor	75	DF	0.33	lb/a	PRE			
6	Lorox			1	pt/a	PRE			
6	Matrix	25	WG	1	oz/a	POST			
6	Activator 90		L	0.25	% v/v	POST			
7	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	0	0
7	Sencor	75	DF	0.33	lb/a	PRE			
7	Lorox	50	DF	1	lb/a	PRE			
7	Sencor	75	DF	0.33	lb/a	POST			
7	Matrix	25	WG	1	oz/a	POST			
7	Activator 90		L	0.25	% v/v	POST			
8	Dual Magnum	7.62	EC	1.33	pt/a	PRE	0	0	0
8	Sencor	75	DF	0.33	lb/a	PRE			
8	Lorox	50	DF	1	lb/a	PRE			
8	Non-Treated								
LSD (P=.05)							1.0	0.6	0.9
Standard Deviation							0.6	0.3	0.5
CV							267.05	207.02	242.84