

MSU Weed Science Research Program

VINE DESICCATION IN POTATO, 2008

Trial ID: P0308 Study Dir.:
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
Plot Size: 10 X 30 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)

Application Description

	A	B
Application Timing:	SEN	YELL
Date Treated:	5/18/08	8/25/08
Time Treated:	5:43 PM	11:30 AM
% Cloud Cover:	10	50
Air Temp., Unit:	92 F	71 F
% Relative Humidity:	42.4	57
Wind Speed/Unit/Dir:	6 mph w	4 mph NW
Soil Temp., Unit:	24 c	20 c
Soil/Leaf Surface M:	5 5	5 5
Soil Moist (1=w 5=d):	4	4

Application Equipment

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

Comments: 18" from the average height of Potato Canopy.

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Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

SOLTU control percent 8/21/08 3 DA-B
 SOLTU control percent 8/25/08 7 DA-B
 SOLTU control percent 9/2/08 15 DA-B
 SOLTU control percent 9/10/08 23 DA-B
 SOLTU control percent 9/18/08 HARVEST
 SOLTU <1 7/8" kilogram 9/18/08 HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6
1	Untreated						4	4	15	63	74	2.79
2	Rely 200	1.67	L	28.7	fl oz/a	SEN	18	79	96	93	100	2.59
3	Rely 200	1.67	L	28.7	fl oz/a	SEN	28	81	100	97	100	2.69
3	Ammonium Sulfate	100	DF	3	lb/100 gal	SEN						
4	Reglone	2	L	1	pt/a	SEN	75	81	100	99	100	2.72
4	Activator 90		L	0.25	% v/v	SEN						
4	Reglone	2	L	1	pt/a	YELL						
4	Activator 90		L	0.25	% v/v	YELL						
5	BAS 80004H	2.9	L	0.5	fl oz/a	SEN	44	65	80	81	80	2.64
5	Herbimax		L	1	% v/v	SEN						
5	Ammonium Sulfate	100	DF	2	% w/w	SEN						
6	BAS 80004H	2.9	L	1	fl oz/a	SEN	44	67	75	83	100	2.12
6	Herbimax		L	1	% v/v	SEN						
6	Ammonium Sulfate	100	DF	2	% w/w	SEN						
7	BAS 80004H	2.9	L	2	fl oz/a	SEN	53	68	93	93	100	2.51
7	Herbimax		L	1	% v/v	SEN						
7	Ammonium Sulfate	100	DF	2	% w/w	SEN						
8	BAS 80004H	2.9	L	4	fl oz/a	SEN	51	66	85	87	100	2.39
8	Herbimax		L	1	% v/v	SEN						
8	Ammonium Sulfate	100	DF	2	% w/w	SEN						
9	Aim	2	L	0.032	lb ai/a	SEN	29	48	66	84	100	2.27
9	MSO		L	1	% v/v	SEN						
10	Aim	2	L	0.025	lb ai/a	SEN	26	50	97	93	100	3.08
10	MSO		L	1	% v/v	SEN						
10	Aim	2	L	0.032	lb ai/a	YELL						
10	MSO		L	1	% v/v	YELL						
LSD (P=.05)							9.8	10.4	19.4	12.9	2.1	0.816
Standard Deviation							6.8	7.2	13.4	8.9	1.5	0.563
CV							18.26	11.85	16.62	10.2	1.52	21.82

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Trt-Eval Interval

SOLTU

<1 7/8"

count

9/18/08

HARVEST

SOLTU

pickout

kilogram

9/18/08

HARVEST

SOLTU

pickout

count

9/18/08

HARVEST

SOLTU

oversize

kilogram

9/18/08

HARVEST

SOLTU

cnt/oversiz

number

9/18/08

HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	7	8	9	10	11
1	Untreated						71	0.121	1	1.634	5
2	Rely 200	1.67	L	28.7	fl oz/a	SEN	62	0.031	0	0.779	3
3	Rely 200	1.67	L	28.7	fl oz/a	SEN	68	0.009	1	0.174	1
3	Ammonium Sulfate	100	DF	3	lb/100 gal	SEN					
4	Reglone	2	L	1	pt/a	SEN	62	-0.004	0	0.099	0
4	Activator 90		L	0.25	% v/v	SEN					
4	Reglone	2	L	1	pt/a	YELL					
4	Activator 90		L	0.25	% v/v	YELL					
5	BAS 80004H	2.9	L	0.5	fl oz/a	SEN	65	0.061	0	1.251	3
5	Herbimax		L	1	% v/v	SEN					
5	Ammonium Sulfate	100	DF	2	% w/w	SEN					
6	BAS 80004H	2.9	L	1	fl oz/a	SEN	51	0.000	0	0.738	2
6	Herbimax		L	1	% v/v	SEN					
6	Ammonium Sulfate	100	DF	2	% w/w	SEN					
7	BAS 80004H	2.9	L	2	fl oz/a	SEN	61	0.000	0	0.929	3
7	Herbimax		L	1	% v/v	SEN					
7	Ammonium Sulfate	100	DF	2	% w/w	SEN					
8	BAS 80004H	2.9	L	4	fl oz/a	SEN	45	0.034	0	1.510	5
8	Herbimax		L	1	% v/v	SEN					
8	Ammonium Sulfate	100	DF	2	% w/w	SEN					
9	Aim	2	L	0.032	lb ai/a	SEN	54	0.086	0	0.520	2
9	MSO		L	1	% v/v	SEN					
10	Aim	2	L	0.025	lb ai/a	SEN	71	0.000	0	1.114	3
10	MSO		L	1	% v/v	SEN					
10	Aim	2	L	0.032	lb ai/a	YELL					
10	MSO		L	1	% v/v	YELL					
LSD (P=.05)							20.6	0.1230	0.6	1.0429	3.1
Standard Deviation							14.2	0.0846	0.4	0.7187	2.1
CV							23.29	250.13	218.55	82.18	84.19

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Trt-Eval Interval

SOLTU

Grade A

kilogram

9/18/08

HARVEST

SOLTU

Grade A

count

9/18/08

HARVEST

SOLTU

dry

9/18/08

HARVEST

SOLTU

wet

9/18/08

HARVEST

SOLTU

SPEC. GRAV

9/18/08

HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	12	13	14	15	16
1	Untreated						26.433	229	3.084	0.264	1.09
2	Rely 200	1.67	L	28.7	fl oz/a	SEN	24.560	217	2.228	0.222	1.11
3	Rely 200	1.67	L	28.7	fl oz/a	SEN	27.086	236	2.273	0.213	1.10
3	Ammonium Sulfate	100	DF	3	lb/100 gal	SEN					
4	Reglone	2	L	1	pt/a	SEN	25.356	209	2.070	0.459	1.41
4	Activator 90		L	0.25	% v/v	SEN					
4	Reglone	2	L	1	pt/a	YELL					
4	Activator 90		L	0.25	% v/v	YELL					
5	BAS 80004H	2.9	L	0.5	fl oz/a	SEN	24.063	188	2.668	0.239	1.10
5	Herbimax		L	1	% v/v	SEN					
5	Ammonium Sulfate	100	DF	2	% w/w	SEN					
6	BAS 80004H	2.9	L	1	fl oz/a	SEN	24.030	213	2.416	0.233	1.11
6	Herbimax		L	1	% v/v	SEN					
6	Ammonium Sulfate	100	DF	2	% w/w	SEN					
7	BAS 80004H	2.9	L	2	fl oz/a	SEN	25.276	224	2.445	0.251	1.11
7	Herbimax		L	1	% v/v	SEN					
7	Ammonium Sulfate	100	DF	2	% w/w	SEN					
8	BAS 80004H	2.9	L	4	fl oz/a	SEN	26.721	194	2.811	0.255	1.10
8	Herbimax		L	1	% v/v	SEN					
8	Ammonium Sulfate	100	DF	2	% w/w	SEN					
9	Aim	2	L	0.032	lb ai/a	SEN	24.546	200	2.496	0.234	1.10
9	MSO		L	1	% v/v	SEN					
10	Aim	2	L	0.025	lb ai/a	SEN	26.081	215	2.493	0.231	1.11
10	MSO		L	1	% v/v	SEN					
10	Aim	2	L	0.032	lb ai/a	YELL					
10	MSO		L	1	% v/v	YELL					
LSD (P=.05)							3.4129	45.0	0.5823	0.2225	0.246
Standard Deviation							2.3521	31.0	0.4013	0.1534	0.170
CV							9.25	14.58	16.06	58.95	14.94

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SOLTU	SOLTU	SOLTU	SOLTU
HH	VD	IBS	STEM END
0-10	0-10	0-10	0-10
9/18/08	9/18/08	9/18/08	9/18/08
HARVEST	HARVEST	HARVEST	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18	19	20
1	Untreated						2	4	0	0
2	Rely 200	1.67	L	28.7	fl oz/a	SEN	1	2	0	0
3	Rely 200	1.67	L	28.7	fl oz/a	SEN	1	1	0	0
3	Ammonium Sulfate	100	DF	3	lb/100 gal	SEN				
4	Reglone	2	L	1	pt/a	SEN	0	3	0	1
4	Activator 90		L	0.25	% v/v	SEN				
4	Reglone	2	L	1	pt/a	YELL				
4	Activator 90		L	0.25	% v/v	YELL				
5	BAS 80004H	2.9	L	0.5	fl oz/a	SEN	0	1	0	0
5	Herbimax		L	1	% v/v	SEN				
5	Ammonium Sulfate	100	DF	2	% w/w	SEN				
6	BAS 80004H	2.9	L	1	fl oz/a	SEN	1	0	1	0
6	Herbimax		L	1	% v/v	SEN				
6	Ammonium Sulfate	100	DF	2	% w/w	SEN				
7	BAS 80004H	2.9	L	2	fl oz/a	SEN	1	1	0	1
7	Herbimax		L	1	% v/v	SEN				
7	Ammonium Sulfate	100	DF	2	% w/w	SEN				
8	BAS 80004H	2.9	L	4	fl oz/a	SEN	1	2	0	1
8	Herbimax		L	1	% v/v	SEN				
8	Ammonium Sulfate	100	DF	2	% w/w	SEN				
9	Aim	2	L	0.032	lb ai/a	SEN	1	1	0	0
9	MSO		L	1	% v/v	SEN				
10	Aim	2	L	0.025	lb ai/a	SEN	2	1	0	0
10	MSO		L	1	% v/v	SEN				
10	Aim	2	L	0.032	lb ai/a	YELL				
10	MSO		L	1	% v/v	YELL				
LSD (P=.05)							1.5	2.2	0.7	1.1
Standard Deviation							1.0	1.5	0.5	0.8
CV							131.11	99.19	385.67	345.06

ARM Action Codes

T1 = [c14]/([c14]-[c15])