

North Carolina State University

SILVER MOSS CONTROL IN BENTGRASS GREENS USING QUICKSILVER T&O 1.9EW AND DACONIL WEATHERSTIK

Trial ID: 03-T39

Study Director: L.S. WARREN

Location: ELK RIVER COUNTRY CLUB

Investigator: Fred Yelverton

Application Description

	A	B
Application Date:	7-24-03	8-6-03
Time of Day:	8:30 AM	11:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POST	POST
Application Placement:	BROFOL	BROFOL
Applied By:	L.S. WARREN	L.S. WARREN
Air Temperature, Unit:	60 F	72 F
% Relative Humidity:	80	68
Wind Velocity, Unit:	2.9 MPH	2.7 MPH
Dew Presence (Y/N):	Y	N
Soil Temperature, Unit:	66 F	70 F
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	80	80

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	AGSST BGRM	AGSST BGRM
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	MOWED 100	MOWED 100
Height, Unit:	0.156 IN	0.156 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	BRQAR W	BRQAR W
Stage Majority, Percent:	MOWED 100	MOWED 100
Height, Unit:	0.156 IN	0.156 IN
Density, Unit:	10 FT2	10 FT2

Application Equipment

	A	B
Appl. Equipment:	BACSPR	BACSPR
Operating Pressure:	32	32
Pressure Unit:	PSI	PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	SS 8003	SS 8003
Nozzle Spacing, Unit:	10 IN	10 IN
Band Width, Unit:	40 IN	40 IN
Boom Length, Unit:	40 IN	40 IN
Boom Height, Unit:	10 IN	10 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume:	50	50
Volume Unit:	GPA	GPA
Propellant:	COMCO2	COMCO2
Tank Mix (Y/N):	Y	Y

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Pest Type							W Weed	W Weed	W Weed
Pest Code							BRQAR	BRQAR	BRQAR1
Rating Date							7-30-03	8-6-03	8-14-03
Rating Data Type							CONTROL	CONTROL	CONTROL
Rating Unit							PERCENT	PERCENT	PERCENT
Assessed By							L.S. WARREN	L.S. WARREN	L.S. WARREN
Days After Last Applic.							6	0	8
Trt-Eval Interval							6 DA-A	13 DA-A	21 DA-A
ARM Action Codes							P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	
1	QUICKSILVER T&O (100 GPA)	1.9	EW	0.67	fl oz/a		JUL 24	A	85.0 ab
	QUICKSILVER T&O (100 GPA)	1.9	EW	0.67	fl oz/a		AUG 6	B	45.0 bc
2	QUICKSILVER T&O (100 GPA)	1.9	EW	3.4	fl oz/a		JUL 24	A	85.0 ab
	QUICKSILVER T&O (100 GPA)	1.9	EW	3.4	fl oz/a		AUG 6	B	63.8 ab
3	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7	fl oz/a		JUL 24	A	85.0 ab
	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7	fl oz/a		AUG 6	B	57.5 ab
4	QUICKSILVER T&O (100 GPA)	1.9	EW	13.4	fl oz/a		JUL 24	A	55.0 c
	QUICKSILVER T&O (100 GPA)	1.9	EW	13.4	fl oz/a		AUG 6	B	27.5 cd
5	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7	fl oz/a		JUL 24	A	88.8 a
	X-77 SPREADER		L	0.25	% v/v		JUL 24	A	71.3 a
	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7	fl oz/a		AUG 6	B	70.0 a
	X-77 SPREADER		L	0.25	% v/v		AUG 6	B	
6	DACONIL W.STIK (200 GPA)		F	174.2	fl oz/a		JUL 24	A	80.0 b
	DACONIL W.STIK (200 GPA)		F	174.2	fl oz/a		AUG 6	B	22.5 d
7	CHECK								0.0 d
									0.0 e
									0.0 c
LSD (P=.05)							6.23	21.33	32.81
Standard Deviation							4.19	14.35	22.08
CV							6.13	34.95	47.56
Grand Mean							68.39	41.07	46.43
Bartlett's X2							4.536	10.443	9.463
P(Bartlett's X2)							0.104	0.064	0.092
Replicate F							1.949	0.896	0.298
Replicate Prob(F)							0.1579	0.4626	0.8265
Treatment F							236.661	12.703	5.428
Treatment Prob(F)							0.0001	0.0001	0.0023

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type							W Weed	W Weed	W Weed	
Pest Code							BRQAR1	BRQAR1	BRQAR2	
Rating Date							8-23-03	9-5-03	8-14-03	
Rating Data Type							CONTROL	CONTROL	CONTROL	
Rating Unit							PERCENT	PERCENT	PERCENT	
Assessed By							L.S. WARREN	L.S. WARREN	L.S. WARREN	
Days After Last Applic.							17	30	8	
Trt-Eval Interval							17 DA-B	30 DA-B	8 DA-B	
ARM Action Codes							P	P	P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate Unit	Growth Stage	Appl Code			
1	QUICKSILVER T&O (100 GPA)	1.9	EW	0.67 fl oz/a		JUL 24 A		32.5 bcd	15.0 b	66.3 b
	QUICKSILVER T&O (100 GPA)	1.9	EW	0.67 fl oz/a		AUG 6 B				
2	QUICKSILVER T&O (100 GPA)	1.9	EW	3.4 fl oz/a		JUL 24 A		53.8 abc	37.5 ab	87.5 a
	QUICKSILVER T&O (100 GPA)	1.9	EW	3.4 fl oz/a		AUG 6 B				
3	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7 fl oz/a		JUL 24 A		66.0 ab	37.0 ab	90.0 a
	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7 fl oz/a		AUG 6 B				
4	QUICKSILVER T&O (100 GPA)	1.9	EW	13.4 fl oz/a		JUL 24 A		26.3 cd	32.5 b	90.0 a
	QUICKSILVER T&O (100 GPA)	1.9	EW	13.4 fl oz/a		AUG 6 B				
5	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7 fl oz/a		JUL 24 A		81.3 a	72.0 a	95.0 a
	X-77 SPREADER		L	0.25 % v/v		JUL 24 A				
	QUICKSILVER T&O (100 GPA)	1.9	EW	6.7 fl oz/a		AUG 6 B				
	X-77 SPREADER		L	0.25 % v/v		AUG 6 B				
6	DACONIL W.STIK (200 GPA)		F	174.2 fl oz/a		JUL 24 A		52.5 abc	37.5 ab	86.3 ab
	DACONIL W.STIK (200 GPA)		F	174.2 fl oz/a		AUG 6 B				
7	CHECK							0.0 d	0.0 b	0.0 c
LSD (P=.05)							37.51	38.90	20.50	
Standard Deviation							25.25	26.18	13.80	
CV							56.61	79.17	18.75	
Grand Mean							44.61	33.07	73.57	
Bartlett's X2							3.698	5.028	12.731	
P(Bartlett's X2)							0.594	0.412	0.005*	
Replicate F							1.428	1.158	1.026	
Replicate Prob(F)							0.2674	0.3532	0.4047	
Treatment F							4.621	2.908	23.883	
Treatment Prob(F)							0.0052	0.0366	0.0001	

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

