



## **2013-2014 Snow Mold Control Evaluation: Wausau Country Club - Wausau, WI.**

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### **OBJECTIVE**

To evaluate fungicides for the control of Typhula blight (caused by *Typhula ishikariensis* and *T. incarnata*) and Microdochium patch (caused by *Microdochium nivale*).

### **MATERIALS AND METHODS**

This evaluation was conducted at Wausau Country Club in Schofield, WI on a creeping bentgrass (*Agrostis stolonifera*)/annual bluegrass (*Poa annua*) fairway maintained at a height of 0.5 inches. Individual plots measured 3 ft x 10 ft (30 ft<sup>2</sup>), and were arranged in a randomized complete block design with four replications. Individual treatments were applied at a nozzle pressure of 40 p.s.i using a CO<sub>2</sub> pressurized boom sprayer equipped with two XR Teejet 8004 VS nozzles. All fungicides were agitated by hand and applied in the equivalent of 2 gallons of water per 1000 ft<sup>2</sup>, with the exception of treatments 107 and 108 (granular) and treatment 93-98 (applied in 2.5 gallons of water per 1000 ft<sup>2</sup>). Early applications were made on October 17<sup>th</sup>, 2013 and late applications were applied on November 14<sup>th</sup>, 2013. The experimental plot area was not inoculated. There was consistent snow cover on the experimental area from late November until mid-April, a total of over 120 days. Disease severity, turf quality, and color were recorded on April 21<sup>st</sup>, 2014. Disease severity was visually rated as percent area affected, turfgrass quality was visually rated on a 1-9 scale with 6 being acceptable, and Normalized Difference Vegetative Index (turfgrass color) was rated using a HCS 100 GreenSeeker® from Trimble Navigation Ltd (Sunnyvale, CA). Treatment means were analyzed using the Waller Duncan method and are presented in Table 1. In addition, surface temperature on the research plot was recorded using a Spectrum Watchdog® datalogger and is presented in Figure 1.

### **RESULTS AND DISCUSSION**

Disease pressure was extremely high at Wausau CC in 2013-2014, with non-treated controls averaging 87.5% disease. Microdochium patch was the primary disease observed in the experimental area (90%), though speckled snow mold was also observed. Despite this intense pressure, 56 of the 108 treatments provided exceptional disease suppression. Nearly all of these treatments contained at least three active ingredients, with some treatments containing four or even five active ingredients. Turf quality closely mirrored disease severity, with 41 of 108 treatments providing acceptable quality (6 or higher). No differences in turf color were observed using the NDVI meter amongst products providing adequate disease suppression.

**Table 1: Mean snow mold severity, turf quality, and turf color assessed on April 21<sup>st</sup>, 2014 at Wausau CC in Wausau, WI.**

Treatment	Rate	Application Timing <sup>a</sup>	Disease Severity <sup>b</sup>	Turf Quality <sup>c</sup>	Turf Color <sup>d</sup>	
1	Non-treated control		87.5a	1.8qr	0.300xyz	
2	Compass	0.2 oz/1000 ft2	Late	83.8ab	2.0pqr	0.357wx
3	Interface	4.0 fl oz/1000 ft2	Late	9.3w-B	6.3c-f	0.647a-m
	Mirage	2.0 fl oz/1000 ft2	Late			
4	Interface	5.0 fl oz/1000 ft2	Late	11.3w-B	6.8a-e	0.670a-i
	Mirage	1.5 fl oz/1000 ft2	Late			
5	Interface	5.0 fl oz/1000 ft2	Late	5.5y-B	6.5b-f	0.660a-l
	Mirage	2.0 fl oz/1000 ft2	Late			
6	Mirage	0.63 fl oz/1000 ft2	Late	6.8x-B	6.3c-f	0.682a-f
	Compass	0.2 oz/1000 ft2	1 HR PRE			
7	Mirage	0.94 fl oz/1000 ft2	Late	4.3zAB	6.8a-e	0.700a-d
	Compass	0.2 oz/1000 ft2	1 HR PRE			
8	Mirage	1.57 fl oz/1000ft2	Late	6.8x-B	6.5b-f	0.665a-j
	Compass	0.2 oz/1000 ft2	1 HR PRE			
9	Mirage	1.89 fl oz/1000ft2	Late	4.3zAB	6.3c-f	0.672a-h
	Compass	0.2 oz/1000ft2	1 HR PRE			
10	SP28296	5.0 fl oz/1000 ft2	Late	4.3zAB	6.5b-f	0.672a-h
	Mirage	1.5 fl oz/1000 ft2	Late			
11	SP28296	6.0 fl oz/1000 ft2	Late	3.0zAB	7.0a-d	0.672a-h
	Mirage	1.5 fl oz/1000 ft2	Late			
12	SP28296	8.0 fl oz/1000 ft2	Late	3.0zAB	6.8a-e	0.690a-e
	Mirage	1.5 fl oz/1000 ft2	Late			
13	SP28297	3.816 fl oz/1000 ft2	Late	5.0zAB	7.0a-d	0.687a-e
	Mirage	1.5 fl oz/1000 ft2	Late			
14	SP28297	4.77 fl oz/1000 ft2	Late	6.3y-B	6.8a-e	0.670a-i
	Mirage	1.5 fl oz/1000 ft2	Late			
15	SP28297	5.724 fl oz/1000 ft2	Late	6.3y-B	6.5b-f	0.655a-m
	Mirage	1.5 fl oz/1000 ft2	Late			
16	Trilogy	3.14 fl oz/1000 ft2	Late	1.3B	7.0a-d	0.705a-d
17	Trilogy	5.56 fl oz/1000 ft2	Late	0.5B	7.8a	0.700a-d
18	Interface	6.0 fl oz/1000 ft2	Late	0.5B	7.5ab	0.717abc
	Triton FLO	0.85 fl oz/1000 ft2	Late			
19	Lexicon Intrinsic	0.46 fl oz/1000 ft2	Late	1.3B	7.5ab	0.682a-f
	Trinity	1.0 fl oz/1000 ft2	Late			
	Daconil Ultrex	3.7 oz/1000 ft2	Late			
	Chipco 26GT	4.0 fl oz/1000 ft2	Late			
	Green Lawnger	16.0 fl oz/1000 ft2	Late			
	Honor Intrinsic	1.1 oz/1000 ft2	Late			
20	Trinity	1.0 fl oz/1000 ft2	Late	1.8AB	7.3abc	0.680a-f
	Daconil Ultrex	3.7 oz/1000 ft2	Late			
	Chipco 26GT	4.0 fl oz/1000 ft2	Late			
	Green Lawnger	16.0 fl oz/1000 ft2	Late			

<sup>a</sup>Early fungicide treatments applied on Oct. 17<sup>th</sup>, 2013 and late treatments applied on Nov. 14<sup>th</sup>, 2013.

<sup>b</sup>Mean percent diseased area assessed on April 21<sup>st</sup>, 2014.

<sup>c</sup>Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

<sup>d</sup>Color was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

**Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on April 21<sup>st</sup>, 2014 at Wausau CC in Schofield, WI.**

Treatment	Rate	Application Timing <sup>a</sup>	Disease Severity <sup>b</sup>	Turf Quality <sup>c</sup>	Turf Color <sup>d</sup>	
21	Insignia Intrinsic	0.7 fl oz/1000 ft2	Late	0.0B	7.5ab	0.690a-e
	Trinity	1.0 fl oz/1000 ft2	Late			
	Daconil Ultrex	3.7 oz/1000 ft2	Late			
	Chipco 26GT	4.0 fl oz/1000 ft2	Late			
	Green Lawnger	16.0 fl oz/1000 ft2	Late			
22	Interface	3.0 fl oz/1000 ft2	Late	3.0zAB	6.3c-f	0.690a-e
	Triton FLO	0.55 fl oz/1000 ft2	Late			
	Droplex	10.0 fl oz/a	Late			
23	Instrata	5.5 fl oz/1000 ft2	Late	6.3y-B	5.8e-h	0.707a-d
	Droplex	10.0 fl oz/a	Late			
24	Banner MAXX II	1.0 fl oz/1000 ft2	Late	52.5g-j	3.5l-o	0.552n-t
	Civitas	8.0 fl oz/1000 ft2	Late			
	Harmonizer	0.5 fl oz/1000 ft2	Late			
	Droplex	10.0 fl oz/a	Late			
25	Turfcide 400	8.0 fl oz/1000 ft2	Late	36.3k-q	4.0j-n	0.605e-q
26	Turfcide 400	12.0 fl oz/1000 ft2	Late	30.0m-t	4.5i-l	0.637b-n
27	Turfcide 400	16.0 fl oz/1000 ft2	Late	38.8j-o	4.0j-n	0.580j-r
28	AMV4820	8.0 fl oz/1000 ft2	Late	42.5j-n	3.8k-n	0.552n-t
29	AMV4820	12.0 fl oz/1000 ft2	Late	37.5j-p	4.0j-n	0.575l-s
30	AMV4820	16.0 fl oz/1000 ft2	Late	62.5e-h	3.3mno	0.450uv
31	Turfcide 400	8.0 fl oz/1000 ft2	Late	40.0j-o	4.0j-n	0.622d-p
	Foursome	0.5 fl oz/1000 ft2	Late			
32	Turfcide 400	12.0 fl oz/1000 ft2	Late	27.5n-v	4.8h-k	0.645a-m
	Foursome	0.5 fl oz/1000 ft2	Late			
33	Turfcide 400	16.0 fl oz/1000 ft2	Late	36.3k-q	4.3j-m	0.587h-q
	Foursome	0.5 fl oz/1000 ft2	Late			
34	Turfcide 400	16.0 fl oz/1000 ft2	Late	37.5j-p	4.3j-m	0.585i-q
	PAR	0.37 fl oz/1000 ft2	Late			
35	AMV4820	8.0 fl oz/1000 ft2	Late	63.8d-h	3.0nop	0.495r-v
	Foursome	0.5 fl oz/1000 ft2	Late			
36	AMV4820	12.0 fl oz/1000 ft2	Late	67.5c-g	3.0nop	0.475tuv
	Foursome	0.5 fl oz/1000 ft2	Late			
37	AMV4820	16.0 fl oz/1000 ft2	Late	51.3h-k	3.8k-n	0.535q-u
	Foursome	0.5 fl oz/1000 ft2	Late			
38	AMV4820	16.0 fl oz/1000 ft2	Late	45.0i-m	3.8k-n	0.577k-s
	PAR	0.37 fl oz/1000 ft2	Late			
39	Banner MAXX II	2.0 fl oz/1000 ft2	Late	32.5m-s	4.3j-m	0.622d-p

<sup>a</sup>Early fungicide treatments applied on Oct. 17<sup>th</sup>, 2013 and late treatments applied on Nov. 14<sup>th</sup>, 2013.

<sup>b</sup>Mean percent diseased area assessed on April 21<sup>st</sup>, 2014.

<sup>c</sup>Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

<sup>d</sup>Color was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

**Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on April 21<sup>st</sup>, 2014 at Wausau CC in Schofield, WI.**

Treatment	Rate	Application Timing <sup>a</sup>	Disease Severity <sup>b</sup>	Turf Quality <sup>c</sup>	Turf Color <sup>d</sup>
40	Banner MAXX II Turfcide 400 Foursome	2.0 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	3.0zAB	6.3c-f 0.700a-d
41	Banner MAXX II Turfcide 400 Foursome	2.0 fl oz/1000 ft <sup>2</sup> 12.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	25.0o-w	5.0g-j 0.542p-t
42	Banner MAXX II Turfcide 400 Foursome	2.0 fl oz/1000 ft <sup>2</sup> 16.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	1.8AB	6.8a-e 0.670a-i
43	Torque	0.9 fl oz/1000 ft <sup>2</sup>	Late	33.8I-r	4.3j-m 0.590g-q
44	Torque Turfcide 400 Foursome	0.9 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	22.5p-x	4.5i-l 0.650a-m
45	Torque AMV4820 Foursome	0.9 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	52.5g-j	3.5l-o 0.547o-t
46	Torque 26/36	0.9 fl oz/1000 ft <sup>2</sup> 4.0 fl oz/1000 ft <sup>2</sup>	Late Late	1.8AB	6.5b-f 0.712abc
47	26/36	4.0 fl oz/1000 ft <sup>2</sup>	Late	71.3b-f	3.0nop 0.472tuv
48	Concert II Banner MAXX II	8.5 fl oz/1000 ft <sup>2</sup> 1.0 fl oz/1000 ft <sup>2</sup>	Late Late	7.5x-B	5.8e-h 0.677a-f
49	Concert II Turfcide 400 Foursome	8.5 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	0.5B	7.3abc 0.697a-d
50	Concert II AMV4820 Foursome	8.5 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	0.5B	7.5ab 0.692a-d
51	Interface	3.0 fl oz/1000 ft <sup>2</sup>	Late	62.5e-h	3.3mno 0.537p-t
52	Interface	6.0 fl oz/1000 ft <sup>2</sup>	Late	48.8h-l	3.8k-n 0.570m-s
53	Interface Turfcide 400 Foursome	3.0 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	18.8r-z	5.0g-j 0.667a-i
54	Interface AMV4820 Foursome	3.0 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	18.8r-z	5.0g-j 0.655a-m
55	Interface Triton FLO	3.0 fl oz/1000 ft <sup>2</sup> 0.75 fl oz/1000 ft <sup>2</sup>	Late Late	3.8zAB	6.8a-e 0.695a-d
56	Triton FLO	0.75 fl oz/1000 ft <sup>2</sup>	Late	31.3m-s	4.3j-m 0.605e-q
57	Insignia SC	0.7 fl oz/1000 ft <sup>2</sup>	Late	77.5a-e	2.5opq 0.435vw
58	Insignia SC Turfcide 400 Foursome	0.7 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	17.5s-A	4.8h-k 0.650a-m

<sup>a</sup>Early fungicide treatments applied on Oct. 17<sup>th</sup>, 2013 and late treatments applied on Nov. 14<sup>th</sup>, 2013.

<sup>b</sup>Mean percent diseased area assessed on April 21<sup>st</sup>, 2014.

<sup>c</sup>Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

<sup>d</sup>Color was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

**Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on April 21<sup>st</sup>, 2014 at Wausau CC in Schofield, WI.**

Treatment	Rate	Application Timing <sup>a</sup>	Disease Severity <sup>b</sup>	Turf Quality <sup>c</sup>	Turf Color <sup>d</sup>
59	Insignia SC AMV4820 Foursome	0.7 fl oz/1000 ft <sup>2</sup> 8.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup>	Late Late Late	21.3q-y	4.8h-k 0.652a-m
60	Insignia SC Trinity	0.7 fl oz/1000 ft <sup>2</sup> 1.0 fl oz/1000 ft <sup>2</sup>	Late Late	11.3w-B	6.0d-g 0.680a-f
61	Trinity	1.0 fl oz/1000 ft <sup>2</sup>	Late	41.3j-n	3.8k-n 0.575l-s
62	Instrata	7.0 fl oz/1000 ft <sup>2</sup>	Late	8.0x-B	5.8e-h 0.525q-u
63	Instrata	9.3 fl oz/1000 ft <sup>2</sup>	Late	3.0zAB	6.3c-f 0.695a-d
64	Instrata PAR	9.4 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late	1.8AB	6.5b-f 0.690a-e
65	Instrata PAR	7.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late	7.5x-B	5.5f-i 0.660a-l
66	Instrata PAR	5.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late	10.0w-B	5.8e-h 0.695a-d
67	Instrata Secure PAR	7.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	6.8x-B	6.0d-g 0.695a-d
68	Instrata Secure PAR	5.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	6.3y-B	5.8e-h 0.702a-d
69	Concert II Banner MAXX II PAR	8.5 fl oz/1000 ft <sup>2</sup> 1.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	10.0w-B	5.0g-j 0.700a-d
70	Concert II Secure PAR	8.5 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	21.3q-y	4.8h-k 0.632c-o
71	Concert II Daconil Weatherstik PAR	4.5 fl oz/1000 ft <sup>2</sup> 2.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	15.0t-B	5.0g-j 0.665a-j
72	Daconil Action Secure PAR	5.4 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	58.8f-i	3.3mno 0.492s-v
73	Daconil Action	5.4 fl oz/1000 ft <sup>2</sup>	Late	78.8a-d	2.5opq 0.355wx
74	A20744 Daconil Weatherstik PAR	0.3 oz/1000 ft <sup>2</sup> 5.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	36.3k-q	4.3j-m 0.622d-p
75	A20744 Banner MAXX II PAR	0.3 oz/1000 ft <sup>2</sup> 2.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	13.8u-B	5.0g-j 0.707a-d
76	A20744 Secure PAR	0.3 oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	22.5p-x	4.8h-k 0.690a-e

<sup>a</sup>Early fungicide treatments applied on Oct. 17<sup>th</sup>, 2013 and late treatments applied on Nov. 14<sup>th</sup>, 2013.

<sup>b</sup>Mean percent diseased area assessed on April 21<sup>st</sup>, 2014.

<sup>c</sup>Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

<sup>d</sup>Color was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

**Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on April 21<sup>st</sup>, 2014 at Wausau CC in Schofield, WI.**

Treatment	Rate	Application Timing <sup>a</sup>	Disease Severity <sup>b</sup>	Turf Quality <sup>c</sup>	Turf Color <sup>d</sup>	
77	A13705W PAR	2.6 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late	18.8r-z	5.0g-j	0.670a-i
78	A13705W PAR	4.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late	8.0x-B	5.5f-i	0.712abc
79	A13705W Secure PAR	2.6 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	6.8x-B	5.8e-h	0.697a-d
80	A13705W Secure PAR	4.0 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	8.5x-B	5.8e-h	0.687a-e
81	A13705W Daconil Weatherstik PAR	2.6 fl oz/1000 ft <sup>2</sup> 5.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	8.0x-B	5.8e-h	0.677a-f
82	A13705W Daconil Weatherstik PAR	4.0 fl oz/1000 ft <sup>2</sup> 5.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	3.8zAB	6.3c-f	0.697a-d
83	A13705W Concert II PAR	2.6 fl oz/1000 ft <sup>2</sup> 4.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	3.5zAB	6.5b-f	0.675a-g
84	A20744 Heritage TL PAR	0.3 oz/1000 ft <sup>2</sup> 2.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	28.8n-u	4.5i-l	0.662a-k
85	A15457 A17856 A7087 PAR	0.236 fl oz/1000 ft <sup>2</sup> 1.09 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late Late	7.5x-B	5.8e-h	0.680a-f
86	A15457 A17856 Heritage TL PAR	0.236 fl oz/1000 ft <sup>2</sup> 1.09 fl oz/1000 ft <sup>2</sup> 1.01 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late Late	8.8x-B	5.5f-i	0.657a-l
87	A15457 A17856 Banner MAXX II PAR	0.236 fl oz/1000 ft <sup>2</sup> 1.09 fl oz/1000 ft <sup>2</sup> 2.0 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late Late	3.8zAB	6.3c-f	0.710abc
88	A19188 A17856 PAR	1.0 fl oz/1000 ft <sup>2</sup> 1.09 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late	18.8r-z	5.0g-j	0.655a-m
89	A20744 A17856 A7087 PAR	0.5 oz/1000 ft <sup>2</sup> 1.09 fl oz/1000 ft <sup>2</sup> 0.5 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late Late	3.0zAB	6.5b-f	0.717abc
90	A20744 A17856 Heritage TL PAR	0.5 oz/1000 ft <sup>2</sup> 1.09 fl oz/1000 ft <sup>2</sup> 1.01 fl oz/1000 ft <sup>2</sup> 0.36 fl oz/1000 ft <sup>2</sup>	Late Late Late Late	11.8v-B	5.5f-i	0.700a-d

<sup>a</sup>Early fungicide treatments applied on Oct. 17<sup>th</sup>, 2013 and late treatments applied on Nov. 14<sup>th</sup>, 2013.

<sup>b</sup>Mean percent diseased area assessed on April 21<sup>st</sup>, 2014.

<sup>c</sup>Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

<sup>d</sup>Color was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

**Table 1 (cont): Mean snow mold severity, turf quality, and turf color assessed on April 21<sup>st</sup>, 2014 at Wausau CC in Schofield, WI.**

Treatment	Rate	Application Timing <sup>a</sup>	Disease Severity <sup>b</sup>	Turf Quality <sup>c</sup>	Turf Color <sup>d</sup>	
91	A20744	0.5 oz/1000 ft2	Late	3.5zAB	6.5b-f	0.695a-d
	A17856	1.09 fl oz/1000 ft2	Late			
	Banner MAXX II	2.0 fl oz/1000 ft2	Late			
	PAR	0.36 fl oz/1000 ft2	Late			
92	A20581	0.47 fl oz/1000 ft2	Late	32.5m-s	4.3j-m	0.597f-q
	PAR	0.36 fl oz/1000 ft2	Late			
93	1786-A	12.0 fl oz/1000 ft2	Early/Late	93.3a	1.0r	0.325xy
94	1786-B	12.0 fl oz/1000 ft2	Early/Late	81.3abc	2.0pqr	0.360wx
95	1786-C	12.0 fl oz/1000 ft2	Early/Late	85.0ab	2.0pqr	0.352wx
96	1786-D	12.0 fl oz/1000 ft2	Early/Late	91.3a	1.3r	0.235z
97	1786-E	12.0 fl oz/1000 ft2	Early/Late	83.8ab	1.8qr	0.310xyz
98	1786-F	12.0 fl oz/1000 ft2	Early/Late	88.8a	1.5qr	0.265yz
99	QP TM/C	6.0 oz/1000 ft2	Late	8.8x-B	5.5f-i	0.677a-f
	QP Iprodione	4.0 fl oz/1000 ft2	Late			
	QP Propiconazole	2.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
100	QP TM/C	6.0 oz/1000 ft2	Late	0.0B	7.3abc	0.712abc
	QP Iprodione	4.0 oz/1000 ft2	Late			
	QP Tebuconazole	0.6 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
101	QP Iprodione	4.0 fl oz/1000 ft2	Late	3.8zAB	6.8a-e	0.700a-d
	QP Tebuconazole	1.1 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
102	QP Enclave	8.0 fl oz/1000 ft2	Late	0.0B	7.5ab	0.727a
	Foursome	0.5 fl oz/1000 ft2	Late			
103	Torque	0.75 fl oz/1000 ft2	Late	0.5B	7.0a-d	0.722ab
	26/36	4.0 fl oz/1000 ft2	Late			
104	Torque	0.75 fl oz/1000 ft2	Late	0.0B	7.0a-d	0.712abc
	26/36	4.0 fl oz/1000 ft2	Late			
	Legend	5.0 fl oz/1000 ft2	Late			
105	Torque	0.6 fl oz/1000 ft2	Late	0.5B	7.0a-d	0.717abc
	26/36	4.0 fl oz/1000 ft2	Late			
	Heritage TL	1.0 fl oz/1000 ft2	Late			
106	Chipco 26GT	4.0 fl oz/1000 ft2	Late	45.0i-m	3.8k-n	0.557n-t
	Daconil Weatherstik	5.5 fl oz/1000 ft2	Late			
107	Duration SIFI (35-0-10)	2.5 lb N/1000 ft2	Early	86.3a-b	1.8qr	0.295xyz
108	Urea (46-0-0)	1.0 lb N/1000 ft2	Early	88.8a	1.5qr	0.282xyz

<sup>a</sup>Early fungicide treatments applied on Oct. 17<sup>th</sup>, 2013 and late treatments applied on Nov. 14<sup>th</sup>, 2013.

<sup>b</sup>Mean percent diseased area assessed on April 21<sup>st</sup>, 2014.

<sup>c</sup>Quality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

<sup>d</sup>Color was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®.

# Wausau, WI Surface Temperature 2013-2014

