



2014-2015 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 Wausau, WI on a creeping bentgrass (*Agrostis stolonifera*) and annual bluegrass (*Poa annua*) fairway maintained at a height of 0.5 inches. Individual plots measured 3 ft x 10 ft (30 ft²), 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 CO₂ pressurized boom sprayer equipped with two XR Teejet AI8004 VS nozzles. All fungicides were agitated by hand and applied in the equivalent of 1.5 gallons of water per 1000 ft². Early applications were made on October 16th, 2014 and late applications were applied on November 7th, 2014. The experimental plot area was not inoculated. There was consistent snow cover on the experimental area from late November until mid-March, a total of approximately 120 days. Disease severity, turf quality, and color were recorded on March 20th, 2015. 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. 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 2014-2015, with non-treated controls averaging 90.0% disease. Microdochium patch was the primary snow mold observed (90%), though speckled snow mold was also observed. Despite this intense pressure, 104 of the 119 treatments provided exceptional disease suppression and 77 of those treatments allowed less than 2% disease. 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 94 of 119 treatments providing acceptable quality (6 or higher). Differences in turf color were observed using the NDVI meter, though most of those differences were due to differences in disease suppression and not the color of non-diseased turf.

Table 1: Mean snow mold severity, turf quality, and turf color assessed on March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
1	Non-treated control		90.0a	1.5k	0.400s
2	Civitas	16.0 fl oz/1000 ft ²	Late	30.0d-h	4.5e-i
	Harmonizer	1.0 fl oz/1000 ft ²	Late		
	Topaz	1.0 fl oz/1000 ft ²	Late		
3	Civitas	16.0 fl oz/1000 ft ²	Late	18.0fgh	5.5b-g
	Harmonizer	1.0 fl oz/1000 ft ²	Late		
	Topaz	1.0 fl oz/1000 ft ²	Late		
	Droplex	10.0 fl oz/a	Late		
4	Instrata	7.5 fl oz/1000 ft ²	Late	0.5h	7.0a-d
	Droplex	10.0 fl oz/a	Late		
5	Civitas	16.0 fl oz/1000 ft ²	Early/Late	55.0cd	3.3h-k
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late		
6	Civitas	16.0 fl oz/1000 ft ²	Early/Late	23.8e-h	5.3c-g
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late		
7	Secure	0.5 fl oz/1000 ft ²	Late	11.3h	5.5b-g
	Secure	0.5 fl oz/1000 ft ²	Late		
8	654-0520	16.0 fl oz/1000 ft ²	Early/Late	62.5bc	2.8ijk
	EXP 654-0505	0.5 fl oz/1000 ft ²	Early/Late		
9	654-0520	16.0 fl oz/1000 ft ²	Early/Late	43.8c-f	4.0f-i
	EXP 654-0505	0.5 fl oz/1000 ft ²	Early/Late		
10	Secure	0.5 fl oz/1000 ft ²	Late	35.0c-h	4.8d-h
	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
11	654-0653	0.89 fl oz/1000 ft ²	Early/Late	17.5fgh	5.8a-f
	Secure	0.5 fl oz/1000 ft ²	Late		
12	Civitas	16.0 fl oz/1000 ft ²	Early/Late	6.3h	6.3a-e
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late		
13	Torque	0.6 fl oz/1000 ft ²	Late	23.0e-h	5.3c-g
	Torque	0.6 fl oz/1000 ft ²	Late		
14	Civitas	16.0 fl oz/1000 ft ²	Early/Late	0.0h	7.3abc
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late		
15	Instrata	11.0 fl oz/1000 ft ²	Late	47.5cde	3.3h-k
	654-0520	16.0 fl oz/1000 ft ²	Early/Late		
16	EXP 189-43	1.3 fl oz/1000 ft ²	Early/Late	3.8h	6.5a-e
	Secure	0.5 fl oz/1000 ft ²	Late		
17	Turfcide	8.0 fl oz/1000 ft ²	Late	3.8h	6.5a-e
	Foursome	0.5 fl oz/1000 ft ²	Late		
18	Turfcide	12.0 fl oz/1000 ft ²	Late	0.0h	7.3abc
	Foursome	0.5 fl oz/1000 ft ²	Late		
19	Turfcide	16.0 fl oz/1000 ft ²	Late	3.8h	6.5a-e
	Foursome	0.5 fl oz/1000 ft ²	Late		

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor 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 March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
20	Interface	3.0 fl oz/1000 ft ²	Late	0.0h	7.5abc	0.670a-e
	Triton FLO	0.75 fl oz/1000 ft ²	Late			
	Interface	3.0 fl oz/1000 ft ²	Late			
21	Turfcide	8.0 fl oz/1000 ft ²	Late	0.5h	7.3abc	0.625a-l
	Foursome	0.5 fl oz/1000 ft ²	Late			
22	Concert II	8.5 fl oz/1000 ft ²	Late	7.5h	6.0a-e	0.655a-h
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	Concert II	8.5 fl oz/1000 ft ²	Late			
23	Turfcide	8.0 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.595a-m
	Foursome	0.5 fl oz/1000 ft ²	Late			
24	Insignia	0.7 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.680abc
	Trinity	1.0 fl oz/1000 ft ²	Late			
	Insignia	0.7 fl oz/1000 ft ²	Late			
25	Turfcide	8.0 fl oz/1000 ft ²	Late	1.8h	7.0a-d	0.608a-m
	Foursome	0.5 fl oz/1000 ft ²	Late			
26	Torque	0.9 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.665a-f
	26/36	4.0 fl oz/1000 ft ²	Late			
	Torque	0.9 fl oz/1000 ft ²	Late			
27	Turfcide	8.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.595a-m
	Foursome	0.5 fl oz/1000 ft ²	Late			
28	Chipco 26GT	4.0 fl oz/1000 ft ²	Late	61.3bc	2.8ijk	0.520i-r
29	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	60.0bc	3.3h-k	0.518j-r
	Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
30	Turfcide	8.0 fl oz/1000 ft ²	Late	3.8h	6.5a-e	0.555b-p
	Foursome	0.5 fl oz/1000 ft ²	Late			
	Daconil Ultrex	5.5 oz/1000 ft ²	Late			
31	Turfcide	8.0 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.588a-m
	Foursome	0.5 fl oz/1000 ft ²	Late			
	Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
32	Daconil Ultrex	5.5 oz/1000 ft ²	Late	0.0h	7.0a-d	0.550c-q
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
	Daconil Weatherstik	2.75 fl oz/1000 ft ²	Late			
33	Banner MAXX II	1.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.598a-m
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
	Daconil Weatherstik	2.75 fl oz/1000 ft ²	Late			
34	Banner MAXX II	1.5 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.575a-o
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
	Daconil Weatherstik	2.75 fl oz/1000 ft ²	Late			
35	Banner MAXX II	2.0 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.615a-l
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor 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 March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
36	Daconil Weatherstik	4.125 fl oz/1000 ft2	Late	0.0h	7.0a-d	0.600a-m
	Banner MAXX II	1.0 fl oz/1000 ft2	Late			
	Turfcide	8.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
37	Daconil Weatherstik	4.125 fl oz/1000 ft2	Late	0.0h	7.3abc	0.585a-n
	Banner MAXX II	1.5 fl oz/1000 ft2	Late			
	Turfcide	8.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
38	Daconil Weatherstik	4.125 fl oz/1000 ft2	Late	0.0h	7.0a-d	0.605a-m
	Banner MAXX II	2.0 fl oz/1000 ft2	Late			
	Turfcide	8.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
39	Daconil Weatherstik	5.5 fl oz/1000 ft2	Late	0.0h	7.3abc	0.595a-m
	Banner MAXX II	1.0 fl oz/1000 ft2	Late			
	Turfcide	8.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
40	Daconil Weatherstik	5.5 fl oz/1000 ft2	Late	0.0h	7.0a-d	0.583a-n
	Banner MAXX II	1.5 fl oz/1000 ft2	Late			
	Turfcide	8.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
41	Daconil Weatherstik	5.5 fl oz/1000 ft2	Late	0.0h	7.0a-d	0.588a-m
	Banner MAXX II	2.0 fl oz/1000 ft2	Late			
	Turfcide	8.0 fl oz/1000 ft2	Late			
	Foursome	0.5 fl oz/1000 ft2	Late			
42	Instrata	9.3 fl oz/1000 ft2	Late	0.0h	7.3abc	0.620a-l
	PAR Plus	0.37 fl oz/1000 ft2	Late			
43	Concert II	8.5 fl oz/1000 ft2	Late	1.3h	7.0a-d	0.630a-k
	Banner MAXX II	1.0 fl oz/1000 ft2	Late			
44	PAR	0.37 fl oz/1000 ft2	Late	1.8h	7.0a-d	0.618a-l
	Concert II	8.5 fl oz/1000 ft2	Late			
45	Banner MAXX II	1.0 fl oz/1000 ft2	Late	0.0h	7.5abc	0.633a-j
	PAR	0.37 fl oz/1000 ft2	Late			
46	A13705	4.5 fl oz/1000 ft2	Late	0.0h	7.8ab	0.605a-m
	Daconil Weatherstik	5.5 fl oz/1000 ft2	Late			
47	PAR	0.37 fl oz/1000 ft2	Late	0.0h	7.8ab	0.620a-l
	A13705	4.5 fl oz/1000 ft2	Late			
48	Daconil Weatherstik	5.5 fl oz/1000 ft2	Late	0.5h	7.0a-d	0.623a-l
	A13705	4.5 fl oz/1000 ft2	Late			
49	Secure	0.5 fl oz/1000 ft2	Late	0.5h	7.3abc	0.600a-m
	PAR	0.37 fl oz/1000 ft2	Late			
49	A13705	4.5 fl oz/1000 ft2	Late	0.5h	7.3abc	0.600a-m
	Concert II	4.5 fl oz/1000 ft2	Late			
49	PAR	0.37 fl oz/1000 ft2	Late	0.5h	7.3abc	0.600a-m
	Concert II	4.5 fl oz/1000 ft2	Late			

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor 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 March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
50	A13705 Primo MAXX PAR	4.5 fl oz/1000 ft ² Late 0.2 fl oz/1000 ft ² Late 0.37 fl oz/1000 ft ² Late	6.3h	6.5a-e	0.600a-m
51	Concert II Banner MAXX II Primo MAXX PAR	8.5 fl oz/1000 ft ² Late 1.0 fl oz/1000 ft ² Late 0.2 fl oz/1000 ft ² Late 0.37 fl oz/1000 ft ² Late	1.3h	7.3abc	0.605a-m
52	Instrata Primo MAXX PAR	9.3 fl oz/1000 ft ² Late 0.2 fl oz/1000 ft ² Late 0.37 fl oz/1000 ft ² Late	0.0h	7.3abc	0.615a-l
53	Interface Triton FLO	4.0 fl oz/1000 ft ² Late 0.55 fl oz/1000 ft ² Late	0.0h	7.3abc	0.645a-i
54	Instrata	11.0 fl oz/1000 ft ² Late	0.0h	7.0a-d	0.630a-k
55	Instrata	10.0 fl oz/1000 ft ² Early/Late	0.0h	7.0a-d	0.595a-m
56	Instrata	9.3 fl oz/1000 ft ² Late	0.0h	7.0a-d	0.628a-l
57	Instrata	7.0 fl oz/1000 ft ² Late	0.5h	7.0a-d	0.613a-l
58	Chipco 26GT Daconil Weatherstik	4.0 fl oz/1000 ft ² Late 5.5 fl oz/1000 ft ² Late	10.5h	6.3a-e	0.568a-o
59	Disarm C Chipco 26GT	5.9 fl oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late	1.3h	6.8a-d	0.575a-o
60	Disarm T	0.89 fl oz/1000 ft ² Late	0.0h	7.3abc	0.648a-i
61	Disarm 480 SC Daconil Weatherstik Chipco 26GT	0.36 fl oz/1000 ft ² Late 5.5 fl oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late	14.3gh	5.8a-f	0.598a-m
62	Tourney 26/36	0.37 oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late	0.5h	7.0a-d	0.648a-i
63	Tourney 26/36 Spectro	0.37 oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late 3.5 oz/1000 ft ² Late	0.5h	7.0a-d	0.640a-j
64	Torque 26/36	0.75 fl oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late	0.0h	7.0a-d	0.663a-g
65	Torque 26/36 Spectro	0.75 fl oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late 3.5 oz/1000 ft ² Late	3.8h	6.8a-d	0.643a-j
66	QP Strobe 50 WG QP Enclave Foursome	0.4 oz/1000 ft ² Late 4.0 fl oz/1000 ft ² Late 0.5 fl oz/1000 ft ² Late	0.0h	7.3abc	0.633a-j
67	QP Enclave Foursome	6.0 fl oz/1000 ft ² Late 0.5 fl oz/1000 ft ² Late	0.0h	7.5abc	0.643a-j
68	QP Enclave Foursome	8.0 fl oz/1000 ft ² Late 0.5 fl oz/1000 ft ² Late	0.0h	7.5abc	0.640a-j
69	QP Strobe 50 WG QP Tebuconazole Foursome	0.4 oz/1000 ft ² Late 0.6 fl oz/1000 ft ² Late 0.5 fl oz/1000 ft ² Late	2.5h	6.5a-e	0.645a-i

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor 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 March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
70	A20744 A17856 Secure PAR	0.5 oz/1000 ft2 1.09 fl oz/1000 ft2 0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late Late	0.5h	7.5abc	0.648a-i
71	A20744 A17856 Banner MAXX II PAR	0.5 oz/1000 ft2 1.09 fl oz/1000 ft2 2.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late Late	0.0h	7.3abc	0.665a-f
72	Secure A17856 A19188 PAR	0.5 fl oz/1000 ft2 1.09 fl oz/1000 ft2 1.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late Late	0.0h	7.0a-d	0.628a-l
73	A17856 A19188 Banner MAXX II PAR	1.09 fl oz/1000 ft2 1.0 fl oz/1000 ft2 2.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late Late	0.0h	7.0a-d	0.660a-g
74	A18126 A17856 Secure PAR	0.164 oz/1000 ft2 1.09 fl oz/1000 ft2 0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late Late	0.5h	7.0a-d	0.663a-g
75	A18126 A17856 Banner MAXX II PAR	0.164 oz/1000 ft2 1.09 fl oz/1000 ft2 2.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late Late	0.5h	7.0a-d	0.633a-j
76	A17856 A19188 PAR	1.88 fl oz/1000 ft2 1.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late	0.0h	7.0a-d	0.663a-g
77	A17856 A19188 PAR	1.41 fl oz/1000 ft2 0.75 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late	0.5h	7.3abc	0.670a-e
78	Instrata PAR	9.3 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late	0.0h	7.0a-d	0.655a-h
79	Interface Triton FLO	6.0 fl oz/1000 ft2 0.85 fl oz/1000 ft2	Late Late	1.3h	7.0a-d	0.675a-d
80	A13705 PAR	2.6 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late	15.0gh	6.0a-e	0.590a-m
81	A20744 A13705 PAR	0.5 oz/1000 ft2 2.6 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late	0.0h	7.3abc	0.658a-h
82	A17856 A13705 PAR	1.09 fl oz/1000 ft2 2.6 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late	0.0h	7.8ab	0.650a-h
83	Secure A13705 PAR	0.5 fl oz/1000 ft2 2.6 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late Late	0.0h	7.5abc	0.665a-f

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor 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 March 20th, 2015 at Wausau CC in Wausau, WI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
84	A13705 Banner MAXX II PAR	2.6 fl oz/1000 ft ² 2.0 fl oz/1000 ft ² 0.36 fl oz/1000 ft ²	Late Late Late	1.0h	7.0a-d 0.645a-i
85	A13705 A19188 PAR	2.6 fl oz/1000 ft ² 1.0 fl oz/1000 ft ² 0.36 fl oz/1000 ft ²	Late Late Late	0.0h	7.5abc 0.668a-f
86	A18126 A13705 PAR	0.164 oz/1000 ft ² 2.6 fl oz/1000 ft ² 0.36 fl oz/1000 ft ²	Late Late Late	0.0h	7.5abc 0.645a-i
87	Concert II A13705 PAR	4.5 fl oz/1000 ft ² 2.6 fl oz/1000 ft ² 0.36 fl oz/1000 ft ²	Late Late Late	0.0h	7.3abc 0.653a-h
88	Lexicon Trinity Daconil Ultrex	0.34 fl oz/1000 ft ² 1.5 fl oz/1000 ft ² 5.0 oz/1000 ft ²	Late Late Late	2.5h	6.5a-e 0.655a-h
89	Honor Trinity Daconil Ultrex	1.1 oz/1000 ft ² 1.5 fl oz/1000 ft ² 5.0 oz/1000 ft ²	Late Late Late	3.0h	6.5a-e 0.655a-h
90	Lexicon Trinity Curalan	0.34 fl oz/1000 ft ² 1.5 fl oz/1000 ft ² 1.0 oz/1000 ft ²	Late Late Late	2.5h	6.8a-d 0.665a-f
97	Compass	0.20 oz/1000 ft ²	Late	41.3c-g	3.8g-j 0.538f-r
98	Fiata Turfcide	6.0 fl oz/1000 ft ² 6.0 fl oz/1000 ft ²	Late Late	1.5h	7.0a-d 0.573a-o
99	Interface Mirage	5.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ²	Late Late	0.0h	7.8ab 0.685ab
100	Interface Mirage	4.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ²	Late Late	0.0h	7.3abc 0.658a-h
101	Interface Mirage	5.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.0h	7.5abc 0.695a
102	Interface Mirage	6.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ²	Late Late	1.8h	7.0a-d 0.643a-j

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®

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Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
104	Compass Mirage	0.20 oz/1000 ft ² 0.63 fl oz/1000 ft ²	Late-Pre1HR Late	0.5h	7.3abc	0.650a-h
105	Compass Mirage	0.20 oz/1000 ft ² 0.94 fl oz/1000 ft ²	Late-Pre1HR Late	0.0h	7.3abc	0.660a-g
106	Compass Mirage	0.20 oz/1000 ft ² 1.57 fl oz/1000 ft ²	Late-Pre1HR Late	0.0h	7.0a-d	0.633a-j
107	Compass Mirage	0.20 oz/1000 ft ² 1.89 fl oz/1000 ft ²	Late-Pre1HR Late	0.0h	7.0a-d	0.650a-h
108	SP102000030109 Mirage	5.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	21.3fgh	5.8a-f	0.588a-m
109	SP102000030109 Mirage	6.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.0h	7.0a-d	0.628a-l
110	SP102000030109 Mirage	8.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.0h	7.0a-d	0.640a-j
111	SP102000028297 Mirage	4.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	4.3h	6.5a-e	0.658a-h
112	SP102000028297 Mirage	5.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	0.5h	7.5abc	0.665a-f
113	SP102000028297 Mirage	6.0 fl oz/1000 ft ² 1.5 fl oz/1000 ft ²	Late Late	1.8h	7.0a-d	0.645a-i
114	Tartan	2.0 fl oz/1000 ft ²	Late	2.5h	6.5a-e	0.638a-j
115	Trilogy	1.26 fl oz/1000 ft ²	Late	18.8fgh	5.3c-g	0.628a-l
116	Trilogy	1.89 fl oz/1000 ft ²	Late	7.5h	6.0a-e	0.653a-h
117	Trilogy	2.51 fl oz/1000 ft ²	Late	0.5h	7.0a-d	0.605a-m
118	Trilogy	3.14 fl oz/1000 ft ²	Late	0.0h	7.3abc	0.658a-h
119	Trilogy	5.56 fl oz/1000 ft ²	Late	0.0h	7.0a-d	0.640a-j

^aEarly fungicide treatments applied on Oct. 16th, 2014 and late treatments applied on Nov. 7th, 2014.

^bMean percent diseased area assessed on March 20th, 2015.

^cQuality was visually assessed where 1 = dead, 6 = acceptable, 9 = dark green.

^dColor was assessed using an HCS 100 NDVI GreenSeeker from Trimble Navigation Ltd®

Surface Temperature (°F)

