



2013-2014 Snow Mold Control Evaluation: Tumbledown Trails GC – Madison, WI

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OBJECTIVE

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

MATERIALS AND METHODS

This evaluation was conducted at Tumbledown Trails Golf Course in Madison, WI on a creeping bentgrass (*Agrostis stolonifera*) and annual bluegrass (*Poa annua*) golf course fairway maintained at a height of 0.5 inch. Individual plots measured 3 ft x 10 ft 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 8004 VS nozzles. All fungicides were agitated by hand and applied in the equivalent of 2 gallons of water per 1000 ft², with the exception of treatments 107 and 108 (granular) and treatment 93-98 (applied in 2.5 gallons of water per 1000 ft²). Early applications were made on October 29th, 2013 and late applications were applied on November 21st, 2013. The experimental plot area was not inoculated. There was consistent snow cover on the experimental area from mid-December until late March, a total of approximately 100 days. Disease severity, turf quality, and color were recorded on April 2nd, 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

Despite persistent snow cover for much of the winter, snow mold was basically absent from the plot area in 2013-2014. Snow mold was not observed in the non-treated controls, and treatments 29, 99, and 103 had very minor amount of gray snow mold. This decreased severity was likely due to the extremely cold temperatures observed in southern Wisconsin and a lack of snow depth required to properly insulate the turf surface (as evidence by the surface temperatures presented in Figure 1). Differences in turf color were not observed using the NDVI meter, though products containing green pigments did appear slightly more green and resulted in a slight increase in turf quality.

Table 1: Mean snow mold severity, turf quality, and turf color assessed on April 2nd, 2014 at Tumbledown Trails GC in Madison, WI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
1	Non-treated control			0.0a	7.0d	0.480a-d
2	Interface	4.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.535a-g
3	Interface	6.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.537a-d
4	Interface	3.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.532a-g
	Mirage	1.5 fl oz/1000 ft ²	Late			
5	Interface	4.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.500a-g
	Mirage	1.5 fl oz/1000 ft ²	Late			
6	SP28296	4.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.525a-e
7	SP28296	5.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.507a-g
8	SP28296	6.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.527a-e
9	SP28296	7.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.502a-g
10	SP28297	2.862 fl oz/1000 ft ²	Late	0.0a	8.0a	0.517a-g
11	SP28297	3.816 fl oz/1000 ft ²	Late	0.0a	7.8ab	0.492a-h
12	SP28297	4.77 fl oz/1000 ft ²	Late	0.0a	7.8ab	0.480a-h
13	SP28297	5.724 fl oz/1000 ft ²	Late	0.0a	8.0a	0.505a-g
14	Tartan	2.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.510a-g
15	Tartan	1.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.490a-h
	Interface	3.0 fl oz/1000 ft ²	Late			
16	Interface	6.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.517a-g
	Triton FLO	0.85 fl oz/1000 ft ²	Late			
17	Lexicon Intrinsic	0.46 fl oz/1000 ft ²	Late	0.0a	8.0a	0.510a-g
	Trinity	1.0 fl oz/1000 ft ²	Late			
	Daconil Ultrex	3.7 oz/1000 ft ²	Late			
	Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
	Green Lawnger	16.0 fl oz/1000 ft ²	Late			
18	Honor Intrinsic	1.1 oz/1000 ft ²	Late	0.0a	8.0a	0.520a-f
	Trinity	1.0 fl oz/1000 ft ²	Late			
	Daconil Ultrex	3.7 oz/1000 ft ²	Late			
	Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
	Green Lawnger	16.0 fl oz/1000 ft ²	Late			
19	Insignia Intrinsic	0.7 fl oz/1000 ft ²	Late	0.0a	8.0a	0.517a-g
	Trinity	1.0 fl oz/1000 ft ²	Late			
	Daconil Ultrex	3.7 oz/1000 ft ²	Late			
	Chipco 26GT	4.0 fl oz/1000 ft ²	Late			
	Green Lawnger	16.0 fl oz/1000 ft ²	Late			
20	Interface	3.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.525a-e
	Triton FLO	0.55 fl oz/1000 ft ²	Late			
	Droplex	10.0a fl oz/a	Late			

^aEarly fungicide treatments applied on Oct. 29th, 2013 and late treatments applied on Nov. 21st, 2013.

^bMean percent diseased area assessed on April 2nd, 2014.

^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 April 2nd, 2014 at Tumbledown Trails GC in Madison, WI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
21	Instrata Droplex	5.5 fl oz/1000 ft2 10.0 fl oz/a	Late Late	0.0a	7.3cd	0.510a-g
22	Banner MAXX II Civitas Harmonizer Droplex	1.0 fl oz/1000 ft2 8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2 10.0 fl oz/a	Late Late Late Late	0.0a	8.0a	0.495a-h
23	Turfcide 400	8.0 fl oz/1000 ft2	Late	0.0a	7.3cd	0.525a-e
24	Turfcide 400	12.0 fl oz/1000 ft2	Late	0.0a	7.0d	0.512a-g
25	Turfcide 400	16.0 fl oz/1000 ft2	Late	0.0a	7.0d	0.472d-h
26	AMV4820	8.0 fl oz/1000 ft2	Late	0.0a	7.0d	0.505a-g
27	AMV4820	12.0 fl oz/1000 ft2	Late	0.0a	7.0d	0.530a-e
28	AMV4820	16.0 fl oz/1000 ft2	Late	0.0a	7.3cd	0.520a-f
29	Turfcide 400 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late	5.0a	8.0a	0.517a-g
30	Turfcide 400 Foursome	12.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late	0.0a	8.0a	0.512a-g
31	Turfcide 400 Foursome	16.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late	0.0a	8.0a	0.515a-g
32	Turfcide 400 PAR	16.0 fl oz/1000 ft2 0.37 fl oz/1000 ft2	Late Late	0.0a	7.8ab	0.487a-h
33	AMV4820 Foursome	8 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late	0.0a	8.0a	0.480a-h
34	AMV4820 Foursome	12.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late	0.0a	8.0a	0.517a-g
35	AMV4820 Foursome	16.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late	0.0a	8.0a	0.512a-g
36	AMV4820 PAR	16.0 fl oz/1000 ft2 0.37 fl oz/1000 ft2	Late Late	0.0a	8.0a	0.525a-e
37	Banner MAXX II	2.0 fl oz/1000 ft2	Late	0.0a	7.0d	0.492a-h
38	Banner MAXX II Turfcide 400 Foursome	2.0 fl oz/1000 ft2 8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late Late	0.0a	8.0a	0.490a-h
39	Banner MAXX II Turfcide 400 Foursome	2.0 fl oz/1000 ft2 12.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late Late	0.0a	8.0a	0.502a-g
40	Banner MAXX II Turfcide 400 Foursome	2.0 fl oz/1000 ft2 16.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late Late	0.0a	8.0a	0.497a-h

^aEarly fungicide treatments applied on Oct. 29th, 2013 and late treatments applied on Nov. 21st, 2013.

^bMean percent diseased area assessed on April 2nd, 2014.

^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 April 2nd, 2014 at Tumbledown Trails GC in Madison, WI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
41	Torque	0.9 fl oz/1000 ft2	Late	0.0a	7.0d	0.515a-g
42	Torque	0.9 fl oz/1000 ft2	Late	0.0a	8.0a	0.517a-g
	Turficide 400 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
43	Torque	0.9 fl oz/1000 ft2	Late	0.0a	8.0a	0.522a-e
	AMV4820 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
44	Torque	0.9 fl oz/1000 ft2	Late	0.0a	7.3cd	0.525a-e
	26/36	4.0 fl oz/1000 ft2	Late			
45	26/36	4.0 fl oz/1000 ft2	Late	0.0a	7.3cd	0.527a-e
46	Concert II	8.5 fl oz/1000 ft2	Late	0.0a	7.3cd	0.497a-h
	Banner MAXX II	1.0 fl oz/1000 ft2	Late			
47	Concert II	8.5 fl oz/1000 ft2	Late	0.0a	8.0a	0.482a-h
	Turficide 400 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
48	Concert II	8.5 fl oz/1000 ft2	Late	0.0a	8.0a	0.497a-h
	AMV4820 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
49	Interface	3.0 fl oz/1000 ft2	Late	0.0a	7.8a	0.522a-e
50	Interface	3.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.530a-e
	Turficide 400 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
51	Interface	3.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.522a-e
	AMV4820 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
52	Interface	3.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.522a-e
	Triton FLO	0.75 fl oz/1000 ft2	Late			
53	Triton FLO	0.75 fl oz/1000 ft2	Late	0.0a	7.0d	0.475c-h
54	Insignia SC	0.7 fl oz/1000 ft2	Late	0.0a	7.0d	0.520a-f
55	Insignia SC	0.7 fl oz/1000 ft2	Late	0.0a	7.8ab	0.507a-g
	Turficide 400 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
56	Insignia SC	0.7 fl oz/1000 ft2	Late	0.0a	8.0a	0.490a-h
	AMV4820 Foursome	8.0 fl oz/1000 ft2 0.5 fl oz/1000 ft2	Late Late			
57	Insignia SC	0.7 fl oz/1000 ft2	Late	0.0a	7.3cd	0.510a-g
	Trinity	1.0 fl oz/1000 ft2	Late			
58	Trinity	1.0 fl oz/1000 ft2	Late	0.0a	7.0d	0.455gh
59	Instrata	7.0 fl oz/1000 ft2	Late	0.0a	7.3cd	0.502a-g
60	Instrata	9.4 fl oz/1000 ft2	Late	0.0a	8.0a	0.500a-g
	PAR	0.36 fl oz/1000 ft2	Late			

^aEarly fungicide treatments applied on Oct. 29th, 2013 and late treatments applied on Nov. 21st, 2013.

^bMean percent diseased area assessed on April 2nd, 2014.

^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 April 2nd, 2014 at Tumbledown Trails GC in Madison, WI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
61	Instrata	7.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.517a-g
	PAR	0.36 fl oz/1000 ft2	Late			
62	Instrata	5.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.495a-h
	PAR	0.36 fl oz/1000 ft2	Late			
63	Instrata	7.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.482a-h
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
64	Instrata	5.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.527a-e
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
65	Concert II	8.5 fl oz/1000 ft2	Late	0.0a	8.0a	0.487a-h
	Banner MAXX II PAR	1.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
66	Concert II	8.5 fl oz/1000 ft2	Late	0.0a	8.0a	0.502a-g
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
67	Concert II	4.5 fl oz/1000 ft2	Late	0.0a	8.0a	0.492a-h
	Daconil Weatherstik PAR	2.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
68	Daconil Action	5.4 fl oz/1000 ft2	Late	0.0a	8.0a	0.507a-g
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
69	Daconil Action	5.4 fl oz/1000 ft2	Late	0.0a	7.0d	0.507a-g
70	A20744	0.3 oz/1000 ft2	Late	0.0a	8.0a	0.495a-h
	Daconil Weatherstik PAR	5.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
71	A20744	0.3 oz/1000 ft2	Late	0.0a	8.0a	0.517a-g
	Banner MAXX II PAR	2.0 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
72	A20744	0.3 oz/1000 ft2	Late	0.0a	8.0a	0.512a-g
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
73	A13705W	2.6 fl oz/1000 ft2	Late	0.0a	8.0a	0.490a-h
	PAR	0.36 fl oz/1000 ft2	Late			
74	A13705W	4.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.520a-f
	PAR	0.36 fl oz/1000 ft2	Late			
75	A13705W	2.6 fl oz/1000 ft2	Late	0.0a	8.0a	0.477b-h
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
76	A13705W	4.0 fl oz/1000 ft2	Late	0.0a	8.0a	0.500a-g
	Secure PAR	0.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			
77	A13705W	2.6 fl oz/1000 ft2	Late	0.0a	8.0a	0.480a-h
	Daconil Weatherstik PAR	5.5 fl oz/1000 ft2 0.36 fl oz/1000 ft2	Late Late			

^aEarly fungicide treatments applied on Oct. 29th, 2013 and late treatments applied on Nov. 21st, 2013.

^bMean percent diseased area assessed on April 2nd, 2014.

^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 April 2nd, 2014 at Tumbledown Trails GC in Madison, WI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
78	A13705W	4.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.467e-h
	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
79	A13705W	2.6 fl oz/1000 ft ²	Late	0.0a	8.0a	0.505a-g
	Concert II	4.5 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
80	A20744	0.3 oz/1000 ft ²	Late	0.0a	8.0a	0.490a-h
	Heritage TL	2.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
81	A15457	0.236 fl oz/1000 ft ²	Late	0.0a	7.8ab	0.517a-h
	A17856	1.09 fl oz/1000 ft ²	Late			
	A7087	0.5 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
82	A15457	0.236 fl oz/1000 ft ²	Late	0.0a	8.0a	0.530a-e
	A17856	1.09 fl oz/1000 ft ²	Late			
	Heritage TL	1.01 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
83	A15457	0.236 fl oz/1000 ft ²	Late	0.0a	8.0a	0.507a-g
	A17856	1.09 fl oz/1000 ft ²	Late			
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
84	A19188	1.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.527a-e
	A17856	1.09 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
85	A20744	0.5 oz/1000 ft ²	Late	0.0a	8.0a	0.540ab
	A17856	1.09 fl oz/1000 ft ²	Late			
	A7087	0.5 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
86	A20744	0.5 oz/1000 ft ²	Late	0.0a	8.0a	0.537abc
	A17856	1.09 fl oz/1000 ft ²	Late			
	Heritage TL	1.01 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
87	A20744	0.5 oz/1000 ft ²	Late	0.0a	8.0a	0.510a-g
	A17856	1.09 fl oz/1000 ft ²	Late			
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
88	A20581	0.47 fl oz/1000 ft ²	Late	0.0a	8.0a	0.542a
	PAR	0.36 fl oz/1000 ft ²	Late			
89	1786-A	12.0 fl oz/1000 ft ²	Early/Late	0.0a	8.0a	0.537abc
90	1786-B	12.0 fl oz/1000 ft ²	Early/Late	0.0a	8.0a	0.507a-g
91	1786-C	12.0 fl oz/1000 ft ²	Early/Late	0.0a	7.0d	0.522a-e
92	1786-D	12.0 fl oz/1000 ft ²	Early/Late	0.0a	7.0d	0.435h
93	1786-E	12.0 fl oz/1000 ft ²	Early/Late	0.0a	7.8ab	0.525a-e

^aEarly fungicide treatments applied on Oct. 29th, 2013 and late treatments applied on Nov. 21st, 2013.

^bMean percent diseased area assessed on April 2nd, 2014.

^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 April 2nd, 2014 at Tumbledown Trails GC in Madison, WI.

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94	1786-F	12.0 fl oz/1000 ft ²	Early/Late	0.0a	7.0d	0.457fgh
95	QP TM/C	6.0 oz/1000 ft ²	Late	0.0a	8.0a	0.502a-g
	QP Iprodione	4.0 fl oz/1000 ft ²	Late			
	QP Propiconazole	2.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
96	QP TM/C	6.0 oz/1000 ft ²	Late	0.0a	8.0a	0.490a-h
	QP Iprodione	4.0 oz/1000 ft ²	Late			
	QP Tebuconazole	0.6 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
97	QP Iprodione	4.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.532a-d
	QP Tebuconazole	1.1 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
98	QP Enclave	8.0 fl oz/1000 ft ²	Late	0.0a	8.0a	0.507a-g
	Foursome	0.5 fl oz/1000 ft ²	Late			
99	Torque	0.75 fl oz/1000 ft ²	Late	1.3a	7.3cd	0.535a-d
	26/36	4.0 fl oz/1000 ft ²	Late			
100	Torque	0.75 fl oz/1000 ft ²	Late	0.0a	7.3cd	0.500a-g
	26/36	4.0 fl oz/1000 ft ²	Late			
	Legend	5.0 fl oz/1000 ft ²	Late			
101	Torque	0.6 fl oz/1000 ft ²	Late	0.0a	7.3cd	0.522a-e
	26/36	4.0 fl oz/1000 ft ²	Late			
	Heritage TL	1.0 fl oz/1000 ft ²	Late			
102	Chipco 26GT	4.0 fl oz/1000 ft ²	Late	0.0a	7.3cd	0.495a-h
	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late			
103	Duration SIFI (35-0-10)		Early	1.3a	7.5bc	0.517a-g
104	Urea (46-0-0)		Early	0.0a	7.5bc	0.532a-d

^aEarly fungicide treatments applied on Oct. 29th, 2013 and late treatments applied on Nov. 21st, 2013.

^bMean percent diseased area assessed on April 2nd, 2014.

^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®.

Madison, WI Surface Temperature 2013-2014

