



2014-2015 Snow Mold Control Evaluation Marquette CC – Marquette, MI

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OBJECTIVE

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

MATERIALS AND METHODS

This evaluation was conducted at Marquette Country Club in Marquette, MI 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 (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 6th, 2014 and late applications were applied on November 4th, 2014. The experimental plot area was not inoculated. There was consistent snow cover on the experimental area from early-November until mid-March and then again until mid-April, a total of approximately 120 days. Disease severity, turf quality, and color were recorded on April 15th, 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 (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® data logger and is presented in Figure 1.

RESULTS AND DISCUSSION

Disease pressure was extremely high at Marquette GC in 2014-2015, with non-treated controls averaging 94% disease. Speckled snow mold was the primary disease observed in the experimental area (90%), though pink snow mold was also observed. Despite this intense pressure, 80 of the 101 treatments provided significant disease suppression relative to the non-treated control and 62 of those provided excellent suppression under harsh conditions (<10%). 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 64 treatments providing a mean quality rating of 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 15th, 2015 at Marquette CC in Marquette, MI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
1	Non-treated control		94.0a	1.3m	0.295t	
2	Civitas	16.0 fl oz/1000 ft ²	Late	65.0a-g	2.8h-m	0.405k-t
	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	62.5a-h	3.0g-m	0.433h-r
	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	9.0 fl oz/1000 ft ²	Late	1.3l	7.5ab	0.603a
	Droplex	10.0 fl oz/a	Late			
5	Civitas	16.0 fl oz/1000 ft ²	Early/Late	67.5a-f	2.8h-m	0.385n-t
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late			
6	Civitas	16.0 fl oz/1000 ft ²	Early/Late	71.3a-e	2.3j-m	0.390m-t
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late			
6	Secure	0.5 fl oz/1000 ft ²	Late	78.8a-d	2.0j-m	0.430h-r
	Secure	0.5 fl oz/1000 ft ²	Late			
7	Secure	0.5 fl oz/1000 ft ²	Late	77.5a-d	2.0j-m	0.388m-t
	Secure	0.5 fl oz/1000 ft ²	Late			
8	654-0520	16.0 fl oz/1000 ft ²	Early/Late	71.3a-e	2.3j-m	0.3680-t
	EXP 654-0505	0.5 fl oz/1000 ft ²	Early/Late			
9	654-0520	16.0 fl oz/1000 ft ²	Early/Late	68.8a-f	2.3j-m	0.373o-t
	EXP 654-0505	0.5 fl oz/1000 ft ²	Early/Late			
9	Secure	0.5 fl oz/1000 ft ²	Late	75.0a-e	2.3j-m	0.380n-t
	Secure	0.5 fl oz/1000 ft ²	Late			
10	654-0520	16.0 fl oz/1000 ft ²	Early/Late	37.5e-l	4.5b-l	0.433h-r
	654-0653	0.89 fl oz/1000 ft ²	Early/Late			
10	654-0520	16.0 fl oz/1000 ft ²	Early/Late	90.3ab	1.3m	0.328q-t
	654-0653	0.89 fl oz/1000 ft ²	Early/Late			
11	654-0520	16.0 fl oz/1000 ft ²	Early/Late	1.3l	7.5ab	0.510a-l
	654-0653	0.89 fl oz/1000 ft ²	Early/Late			
11	Secure	0.5 fl oz/1000 ft ²	Late	81.3a-d	2.0j-m	0.425i-r
	Secure	0.5 fl oz/1000 ft ²	Late			
12	Civitas	16.0 fl oz/1000 ft ²	Early/Late	51.3b-j	3.3f-m	0.443f-q
	Harmonizer	1.0 fl oz/1000 ft ²	Early/Late			
12	Torque	0.6 fl oz/1000 ft ²	Late	15.0jkl	5.5a-h	0.543a-i
	Torque	0.6 fl oz/1000 ft ²	Late			
13	Turficide	8.0 fl oz/1000 ft ²	Late	5.0l	6.5a-d	0.560a-f
	Foursome	0.5 fl oz/1000 ft ²	Late			
14	Turficide	12.0 fl oz/1000 ft ²	Late	7.3l	6.3a-e	0.558a-g
	Foursome	0.5 fl oz/1000 ft ²	Late			
15	Turficide	16.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			

^aEarly fungicide treatments were applied on Oct. 6th, 2014 and late treatments were applied on Nov. 4th, 2014.

^bMean percent diseased area assessed on April 15th, 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 April 15th, 2015 at Marquette CC in Marquette, MI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
20	Interface Triton FLO	3.0 fl oz/1000 ft ² 0.75 fl oz/1000 ft ²	Late Late	17.5i-l	6.0a-f 0.563a-f
21	Interface Turficide Foursome	3.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	1.3l	7.5ab 0.590ab
22	Concert II Banner MAXX II	8.5 fl oz/1000 ft ² 1.0 fl oz/1000 ft ²	Late Late	5.0l	6.8a-d 0.540a-i
23	Concert II Turficide Foursome	8.5 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0l	8.0a 0.555a-g
24	Insignia Trinity	0.7 fl oz/1000 ft ² 1.0 fl oz/1000 ft ²	Late Late	75.0a-e	2.0j-m 0.435g-r
25	Insignia Turficide Foursome	0.7 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0l	8.0a 0.593ab
26	Torque 26/36	0.9 fl oz/1000 ft ² 4.0 fl oz/1000 ft ²	Late Late	2.5l	7.0abc 0.550a-h
27	Torque Turficide Foursome	0.9 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0l	8.0a 0.563a-f
28	Chipco 26GT	4.0 fl oz/1000 ft ²	Late	82.0a-d	1.8klm 0.383n-t
29	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	90.0ab	1.3m 0.325rst
30	Chipco 26GT Turficide Foursome	4.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	5.5l	6.8a-d 0.585abc
31	Daconil Ultrex Turficide Foursome	5.5 oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late	0.0l	8.0a 0.568a-f
32	Chipco 26GT Daconil Ultrex Turficide Foursome	4.0 fl oz/1000 ft ² 5.5 oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0l	8.0a 0.565a-f
33	Daconil Weatherstik Banner MAXX II Turficide Foursome	2.75 fl oz/1000 ft ² 1.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0l	8.0a 0.580a-d
34	Daconil Weatherstik Banner MAXX II Turficide Foursome	2.75 fl oz/1000 ft ² 1.5 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0l	8.0a 0.558a-g
35	Daconil Weatherstik Banner MAXX II Turficide Foursome	2.75 fl oz/1000 ft ² 2.0 fl oz/1000 ft ² 8.0 fl oz/1000 ft ² 0.5 fl oz/1000 ft ²	Late Late Late Late	0.0l	8.0a 0.565a-f

^aEarly fungicide treatments were applied on Oct. 6th, 2014 and late treatments were applied on Nov. 4th, 2014.

^bMean percent diseased area assessed on April 15th, 2015.

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Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
36	Daconil Weatherstik	4.125 fl oz/1000 ft ²	Late	0.01	8.0a	0.593ab
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
37	Daconil Weatherstik	4.125 fl oz/1000 ft ²	Late	0.51	7.8ab	0.533a-j
	Banner MAXX II	1.5 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
38	Daconil Weatherstik	4.125 fl oz/1000 ft ²	Late	0.01	8.0a	0.585abc
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
39	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.01	8.0a	0.580a-d
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
40	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.51	7.8ab	0.558a-g
	Banner MAXX II	1.5 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
41	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.01	8.0a	0.578a-d
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	Turfcide	8.0 fl oz/1000 ft ²	Late			
	Foursome	0.5 fl oz/1000 ft ²	Late			
42	Instrata	9.3 fl oz/1000 ft ²	Late	0.51	7.8ab	0.573a-e
	PAR Plus	0.37 fl oz/1000 ft ²	Late			
43	Concert II	8.5 fl oz/1000 ft ²	Late	3.51	6.5a-d	0.523a-j
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			
44	Concert II	8.5 fl oz/1000 ft ²	Late	32.5f-l	4.8a-k	0.488a-n
	Banner MAXX II	1.0 fl oz/1000 ft ²	Late			
45	PAR plus	0.37 fl oz/1000 ft ²	Late	2.51	7.5ab	0.595a
	A13705	4.5 fl oz/1000 ft ²	Late			
46	PAR	0.37 fl oz/1000 ft ²	Late	47.5c-k	4.5b-l	0.495a-n
	A13705	2.6 fl oz/1000 ft ²	Late			
47	Daconil Weatherstik	5.5 fl oz/1000 ft ²	Late	0.01	8.0a	0.598a
	PAR	0.37 fl oz/1000 ft ²	Late			
48	A13705	4.5 fl oz/1000 ft ²	Late	1.31	7.5ab	0.575a-e
	Secure	0.5 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			
49	A13705	4.5 fl oz/1000 ft ²	Late	0.01	8.0a	0.563a-f
	Concert II	4.5 fl oz/1000 ft ²	Late			
	PAR	0.37 fl oz/1000 ft ²	Late			

^aEarly fungicide treatments were applied on Oct. 6th, 2014 and late treatments were applied on Nov. 4th, 2014.

^bMean percent diseased area assessed on April 15th, 2015.

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^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
50	A13705 Primo MAXX PAR	4.5 fl oz/1000 ft2 Late 0.2 fl oz/1000 ft2 Late 0.37 fl oz/1000 ft2 Late	1.8l	7.3ab	0.565a-f
51	Concert II Banner MAXX II Primo MAXX PAR	8.5 fl oz/1000 ft2 Late 1.0 fl oz/1000 ft2 Late 0.2 fl oz/1000 ft2 Late 0.37 fl oz/1000 ft2 Late	8.0l	6.3a-e	0.493a-n
52	Instrata Primo MAXX PAR	9.3 fl oz/1000 ft2 Late 0.2 fl oz/1000 ft2 Late 0.37 fl oz/1000 ft2 Late	0.5l	7.5ab	0.543a-i
53	Interface Triton FLO	4.0 fl oz/1000 ft2 Late 0.55 fl oz/1000 ft2 Late	54.3a-i	3.5e-m	0.460b-p
54	Instrata	11.0 fl oz/1000 ft2 Late	0.0l	7.5ab	0.568a-f
55	Instrata	10.0 fl oz/1000 ft2 Early/Late	0.0l	7.3ab	0.603a
56	Disarm C Chipco 26GT	5.9 fl oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late	2.5l	6.5a-d	0.603a
57	Disarm T	0.89 fl oz/1000 ft2 Late	0.0l	7.5ab	0.583abc
58	Disarm 480 SC Daconil Weatherstik Chipco 26GT	0.36 fl oz/1000 ft2 Late 5.5 fl oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late	5.5l	6.3a-e	0.540a-i
59	Tourney 26/36	0.37 oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late	3.0l	6.8a-d	0.543a-i
60	Tourney 26/36 Spectro	0.37 oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late 3.5 oz/1000 ft2 Late	0.5l	7.5ab	0.590ab
61	Torque 26/36	0.75 fl oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late	3.0l	7.3ab	0.588ab
62	Torque 26/36 Spectro	0.75 fl oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late 3.5 oz/1000 ft2 Late	0.0l	7.5ab	0.570a-f
63	QP Strobe 50 WG QP Enclave Foursome	0.4 oz/1000 ft2 Late 4.0 fl oz/1000 ft2 Late 0.5 fl oz/1000 ft2 Late	0.0l	8.0a	0.598a
64	QP Enclave Foursome	6.0 fl oz/1000 ft2 Late 0.5 fl oz/1000 ft2 Late	0.0l	8.0a	0.575a-e
65	QP Enclave Foursome	8.0 fl oz/1000 ft2 Late 0.5 fl oz/1000 ft2 Late	0.5l	7.8ab	0.580a-d
66	QP Strobe 50 WG QP Tebuconazole Foursome	0.4 oz/1000 ft2 Late 0.6 fl oz/1000 ft2 Late 0.5 fl oz/1000 ft2 Late	32.5f-l	4.5b-l	0.520a-k
67	A20744 A17856 Secure PAR	0.5 oz/1000 ft2 Late 1.09 fl oz/1000 ft2 Late 0.5 fl oz/1000 ft2 Late 0.36 fl oz/1000 ft2 Late	0.0l	8.0a	0.605a

^aEarly fungicide treatments were applied on Oct. 6th, 2014 and late treatments were applied on Nov. 4th, 2014.

^bMean percent diseased area assessed on April 15th, 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 April 15th, 2015 at Marquette CC in Marquette, MI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d	
68	A20744	0.5 oz/1000 ft ²	Late	1.3l	7.3ab	0.573a-e
	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			
69	Secure	0.5 fl oz/1000 ft ²	Late	0.0l	7.8ab	0.613a
	A17856	1.09 fl oz/1000 ft ²	Late			
	A19188	1.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
70	A17856	1.09 fl oz/1000 ft ²	Late	0.0l	7.8ab	0.565a-f
	A19188	1.0 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			
71	A18126	0.164 oz/1000 ft ²	Late	0.5l	7.8ab	0.600a
	A17856	1.09 fl oz/1000 ft ²	Late			
	Secure	0.5 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
72	A18126	0.164 oz/1000 ft ²	Late	0.0l	7.5ab	0.588ab
	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			
73	A17856	1.88 fl oz/1000 ft ²	Late	0.5l	7.5ab	0.613a
	A19188	1.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
74	A17856	1.41 fl oz/1000 ft ²	Late	0.5l	7.5ab	0.603a
	A19188	0.75 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
75	Instrata	9.3 fl oz/1000 ft ²	Late	0.0l	8.0a	0.575a-e
	PAR	0.36 fl oz/1000 ft ²	Late			
76	Interface	6.0 fl oz/1000 ft ²	Late	25.0h-l	5.0a-j	0.520a-k
	Triton FLO	0.85 fl oz/1000 ft ²	Late			
77	A13705	2.6 fl oz/1000 ft ²	Late	17.5i-l	5.5a-h	0.548a-h
	PAR	0.36 fl oz/1000 ft ²	Late			
78	A20744	0.5 oz/1000 ft ²	Late	25.0h-l	5.5a-h	0.548a-h
	A13705	2.6 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
79	A17856	1.09 fl oz/1000 ft ²	Late	1.0l	7.5ab	0.613a
	A13705	2.6 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
80	Secure	0.5 fl oz/1000 ft ²	Late	1.3l	7.5ab	0.580a-d
	A13705	2.6 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
81	A13705	2.6 fl oz/1000 ft ²	Late	11.3kl	6.0a-f	0.568a-f
	Banner MAXX II	2.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			
82	A13705	2.6 fl oz/1000 ft ²	Late	5.0l	6.8a-d	0.578a-d
	A19188	1.0 fl oz/1000 ft ²	Late			
	PAR	0.36 fl oz/1000 ft ²	Late			

^aEarly fungicide treatments were applied on Oct. 6th, 2014 and late treatments were applied on Nov. 4th, 2014.

^bMean percent diseased area assessed on April 15th, 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 April 15th, 2015 at Marquette CC in Marquette, MI.

Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
83	A18126 A13705 PAR	0.164 oz/1000 ft ² Late Late	7.5l	6.5a-d	0.558a-g
84	Concert II A13705 PAR	4.5 fl oz/1000 ft ² Late Late	1.3l	7.5ab	0.578a-d
85	Lexicon Trinity Daconil Ultrex	0.34 fl oz/1000 ft ² Late Late	44.3d-l	4.0c-m	0.480a-o
86	Honor Trinity Daconil Ultrex	1.1 oz/1000 ft ² Late Late	28.8g-l	4.5b-l	0.503a-m
87	Lexicon Trinity Curalan	0.34 fl oz/1000 ft ² Late Late	67.5a-f	2.5i-m	0.450d-p
88	Interface Mirage	6.0 fl oz/1000 ft ² Late	2.5l	7.5ab	0.563a-f
89	Interface Mirage	6.0 fl oz/1000 ft ² Late	2.5l	7.5ab	0.555a-g
90	Mirage Interface Daconil Ultrex	2.0 fl oz/1000 ft ² Late Late	0.0l	8.0a	0.583abc
91	SP102000030109 Mirage	5.0 fl oz/1000 ft ² Late	27.5h-l	4.5b-l	0.493a-n
92	SP102000030109 Mirage	6.0 fl oz/1000 ft ² Late	56.3a-h	3.0g-m	0.455c-p
93	SP102000030109 Mirage	8.0 fl oz/1000 ft ² Late	58.8a-h	3.3f-m	0.448e-p
94	SP102000028297 Mirage	4.0 fl oz/1000 ft ² Late	90.0ab	1.3m	0.398l-t
95	SP102000028297 Mirage	5.0 fl oz/1000 ft ² Late	88.3ab	1.5lm	0.365o-t
96	SP102000028297 Mirage	6.0 fl oz/1000 ft ² Late	75.0a-e	2.0j-m	0.418j-s
97	Tartan	2.0 fl oz/1000 ft ² Late	43.8d-l	3.8d-m	0.490a-n
98	Tartan Mirage	2.0 fl oz/1000 ft ² Late	26.3h-l	5.3a-i	0.513a-l
99	Tartan Mirage Interface	1.0 fl oz/1000 ft ² Late Late	17.5i-l	5.5a-h	0.533a-j
100	Tartan Mirage Interface	1.0 fl oz/1000 ft ² Late Late	6.3l	6.8a-d	0.605a
101	Tartan Mirage Interface Fiata	1.0 fl oz/1000 ft ² Late Late Late	1.8l	7.3ab	0.570a-f

^aEarly fungicide treatments were applied on Oct. 6th, 2014 and late treatments were applied on Nov. 4th, 2014.

^bMean percent diseased area assessed on April 15th, 2015.

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

Surface Temperature (°F)

