

Floratine – a different breed of dog. Turf is all that we do. And turf strength is our passion. It's reflected in our scientists' designs, our raw materials selection and our representatives' recommendations of exceptional products like Carbon Power, Astron and ProteSyn. Our singular focus is meeting the physiological requirements for grass to be stronger, longer.

Different? Sure, but we think your turf will appreciate the difference.



Patented Chemistry. University Tested.

Continued from page 60

and temperature is lower in winter.

We have been testing 70 to 80 fungicide combinations at several locations in Wisconsin and Minnesota since 2002. Field evaluations were conducted at Sentryworld Golf Course in Stevens Point, Wis.; Gateway Golf Course in Land O' Lakes, Wis.; and Giants Ridge Golf Resort in Biwabik, Minn., on creeping bentgrass (*Agrostis stolonifera*) fairways in 2004-2005. Individual plots measured 3 feet by 10 feet (30 square feet) and were arranged in a randomized, completeblock design with three replications.

Individual treatments were applied at a nozzle pressure of 40 pounds per square inch (psi), using a CO_2 -pressurized boom sprayer equipped with two XR Teejet 8005 VS nozzles. All fungicides were agitated by hand and applied in the equivalent of 2 gallons of water per 1,000 square feet. Granular applications were applied using a shaker jar. Early applications were applied on Oct. 14, 12 and 11, 2004, at Sentryworld, Gateway and Giants Ridge, respectively.

Second applications were applied on Nov. 11, 3 and 14 at Sentryworld, Gateway and Giants Ridge, respectively. The experimental plot area was not inoculated, but *Typhula* blight occurs naturally. Snow continuously covered field plots from Jan. 1, 2005, to March 25, 2005, (84 days) at Sentryworld; from Nov. 27, 2004, to April 7, 2005, (132 days) at Gateway; and from Nov. 27, 2004, to April 3, 2005, (128 days) at Giants Ridge. *Typhula* blight pressure was high in the 2004-05 season, resulting in excellent evaluations for fungicide efficacy.

Results from our fungicide efficacy tests conducted in 2004-05 are summarized in Table 1 (pages 66-67). Disease pressure was low to moderate at Sentryworld with an average of 18 percent snow mold damage on non-treated check plots. The pathogen causing the most damage was mainly *T. ishikariensis*. Many tested treatments with single fungicide or combinations of two or three products provided nearly 100 percent control of the disease.

There were noticeable differences in the turf color after chemical applications, indicating that phytotoxicity can be issued when



Individual sporocarps produced from dark brown sclerotia of T. incarnata. Mature sporocarps produce sexual spores (basidiospores).

certain fungicides (e.g., PCNB) are applied at warmer temperatures. At Gateway and Giants Ridge, disease pressure was extremely high, mainly caused by *T. ishikariensis*. The untreated control plots had more than 96 percent disease damage at both sites.

Specifically, nine treatments (Nos. 14, 21, 23, 39, 42, 43, 47, 48 and 53) using mixtures of two or three fungicides significantly reduced *Typhula* blight severity under 10 percent disease during the severe winter season at Gateway. Among those treatments, Nos. 14, 42, 47 and 48 provided consistently excellent control at an average of 10 percent or less disease at Giants Ridge.

Treatment Nos. 21, 23, 39, 43 and 53 still gave moderate disease suppression at 12 percent to 19 percent snow mold damage at Giants Ridge. The variations in the fungicidal efficacy between Gateway and Giants Ridge might be due to the time difference in disease progression and pressure and the experimental variability in the visual disease assessment. In addition, the application dates for treatments were different for each trial.

PCNB is one of the most common and effective fungicides and has been used to control *Typhula* blight for many years. Due to its phytotoxicity and a long residual effect, there have been a number of fungicides developed as an alternative of PCNB. Our field evaluation will provide turfgrass *Continued on page* 64



QUICK TIP

No amount of agronomic research can help when a machine operator doesn't notice he just leaked hydraulic fluid on the last two greens he mowed. With the elimination of 102 potential leak points, the 2500E will significantly reduce the chances of that happening. Contact your John Deere Golf & Turf distributor to learn more about the new runall-day 2500E hybrid riding greens mower from John Deere.

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FIGURE 3



Typhula blight on a creeping bentgrass fairway. Gray circular patches with white and gray mycelium become distinct at snowmelt in early spring.



QUICK TIP

As winter draws to an end, it's a good time to plan your spring clean up for snow mold and other diseases that have been lingering in the soil. An earlyseason fungicide application will set the stage for reduced disease pressure throughout the year. Bayer's Compass, Bayleton and 26GT take care of gray snow mold, pink snow mold, dollar spot, anthracnose and more.

Continued from page 62

managers with more options to choose from for fighting back *Typhula* blight encroachment. The best combinations for snow mold control according to our 2004-05 test are the tank mixture of PCNB with systemic and/or contact fungicides with two split applications between mid-October and mid-November.

If you do not want to use PCNB, a combination of fludioxonil and propiconazole would be a next pick. In more southern regions having a moderate disease pressure, some other combinations such as a mixture of iprodione and chlorothalonil will hold down *Typhula* blight fairly well.

To further explore better *Typhula* blight control strategy, more than 60 new chemicals and tankmix combinations are being tested this winter at five geographically different locations, two in Minnesota and three in Wisconsin.

Young-Ki Jo received his master's in arts degree in 2000 from the department of entomology at Michigan State University. He received his doctor of philosophy degree from the department of plant pathology at The Ohio State University in 2005. Currently, he is employed by the University of Wisconsin-Madison as a post doctoral researcher. Geunhwa Jung is an assistant professor and turfgrass pathologist in the department of plant pathology at the University of Wisconsin-Madison.

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How Does Your Turfgrass Rate With The Toughest Critics?

TEES

GREENS



FarmLinks Hole No. 6

PTD

POLYGRAPH

RUFES

At the 19th hole, what do your golfers say about the previous 18?

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TABLE 1

Fungicide Efficacy Results

Typhula blight and phytotoxicity ratings recorded on April 6, 2005, at Sentryworld GC, Stevens Point, Wis.; April 12, 2005, at Gateway GC, Land O'Lakes, Wis.; and April 11, 2005, at Giants Ridge GR, Biwabik, Minn.

Treatment	Rate	Timing ^a	% Typhula blight [®]			Phytotoxicity ^d
			Sentryworld	Gateway	Giants Ridge	Sentryworld
1 Non-treated Control			18.3abc	98.3ab	96.3ab	6.0а-е
2 Endorse	4.00 OZ/M	Late	6.7 c-h	71.7 a-f	60 a-k	6.3 a-d
Spectro	5.75 OZ/M	Late				
3 Endorse	4.00 OZ/M	Late	6.0 d-h	80.0 a-d	-C	5.0 d-g
Spotrete	8.00 OZ/M	Late				
4 Spectro	4.00 OZ/M	Early				
Endorse	4.00 OZ/M	Late	5.0d-h	58.3d-j	60a-k	6.3a-d
Spectro	4.00 OZ/M	Late				
5 Daconil Weather Stik	5.50FL OZ/M	Late	10.0a-h	71.7a-f	86.7a-f	5.7b-f
6 Spotrete	8.00 OZ/M	Late	5.7d-h	88.3a-d	90.7а-е	6.0а-е
7 Endorse	4.00 OZ/M	Late	11.7a-h	91.7a-d	65.0a-j	6.0а-е
8 Spectro	5.750Z/M	Late	4.0e-h	75.0а-е	90.7а-е	6.0а-е
9 Spectro	4.00 OZ/M	Late	5.0d-h	76.7a-e	50.0c-o	6.0а-е
10 Magnum	3.50 FL OZ/M	Late	16.7a-d	100.0a	· /	6.0а-е
11 Medallion	0.14 OZ/M	Late				
Daconil WeatherStik	2.40 FL OZ/M	Late	5.0d-h	38.3g-n	41.7f-q	6.0а-е
Banner MAXX	1.70 FL OZ/M	Late				
12 Signature	4.00 OZ/M	Early/Late				
Chipco 26GT	4.00 FL OZ/M	Early/Late	3.3e-h	13.3l-p	45.0e-g	6.3a-d
Daconil WeatherStik	5.50 FL OZ/M	Early/Late				
13 Signature	4.00 OZ/M	Early/Late	0.0 h	19.0 k-p	10.3 n-q	6.3 a-d
Armada	1.50 OZ/M	Early/Late				
14 Armada	1.50 OZ/M	Early/Late	0.0 h	4.0 op	1.0 g	4.3 fgh
Turfcide 400	6.00 FL OZ/M	Early/Late				,
15 Armada	1.50 OZ/M	Early/Late	0.7 h	45.0 e-l	17.7 k-q	4.3 fgh
16 Signature	4.00 OZ/M	Early/Late	9.0 b-h	91.7 a-d	96.7 ab	6.7 abc
17 Chipco 26GT	4.00 FL OZ/M	Early/Late	8.3 b-h	88.3 a-d	80.0 a-h	5.7 b-f
18 Daconil WeatherStik	5.50 FL OZ/M	Early/Late	2.3 fgh	71.7 a-f	73.3 a-l	5.3 c-f
19 Turfcide 400	6.00 FL OZ/M	Early/Late	0.0 h	85.0 a-d	53.3 a-n	4.7 e-h
20 LESCO 18 Plus	4.00 FL OZ/M	Early				
LESCO Manicure Ultrex	5.00 OZ/M	Early	0.0 h	33.3 i-p	40.7 g-g	4.3 fgh
LESCO Revere 4000	8.00 FL OZ/M	Late			51	
21 LESCO 18 Plus	4.00 FL OZ/M	Late				
LESCO Manicure Ultrex	5.00 OZ/M	Late	0.0 h	3.0 op	19.0 k-a	5.3 c-f
LESCO Revere 4000	8.00 FL OZ/M	Late				
22 LESCO Spectator	1.25 FL 07/M	Farly	0.0 h	40.0 f-m	40.0 g-g	4.3 fah
LESCO Revere 4000	8.00 FL OZ/M	Late				
23 LESCO Spectator	1.25 FL 07/M	Late	0.0 h	7.0 m-p	13.3 l-a	5.3 c-f
Medallion	0.50 07/M	Late				
24 LESCO Revere 4000	12.00 EL 07/M	Late	00h	76.7 а-е	51.7 b-o	2.3 i
25 Insignia	0.70.07/M	Farly	0.0 11	,		,
LESCO 18 Plus	4.00 FL 07/M	Late	4 3 d-h	28.3 i-p	40.0 g-g	6.3 a-d
LESCO Manicure Ultrey	5.00 07/M	Late		-0.0 J P		
26 LESCO Spectator	1.00 EL 07/M	Farly				
Insignia	0.70 07/M	Late	03h	18.7 k-n	55.0 a-n	5.7 b-f
LESCO Manicure Ultrey	5.00 07/M	Late		. 3 .7 N P		
and a second stream of the A						

	TABLE 1 (continue)	od)					
27	Insignia	0.70 OZ/M	Early				
	LESCO Manicure Ultrex	5.00 OZ/M	Early	0.0 h	10.0 m-p	45.0 e-q	3.7 ghi
	LESCO Revere 4000	8.00 FL OZ/M	Late		14		
28	Compass	0.50 OZ/M	Late	0.3 h	16.7 k-p	24.3 j-g	5.0 d-q
	LESCO Revere 4000	8.00 FL OZ/M	Late				
29	Insignia	0.90 OZ/M	Late				
	Iprodione Pro	4.00 FL OZ/M	Late	0.0 h	16.7 k-p	23.3 i-a	3.7 ghi
	LESCO Revere 4000	8.00 FL OZ/M	Late			, ,	
30	Insignia	0.90 OZ/M	Late				
	Iprodione Pro	4.00 FL OZ/M	Late	0.7 h	12.3 m-p	32.3i-q	5.0 d-g
	LESCO Manicure Ultrex	3.20 OZ/M	Late				
31	LESCO 18 Plus	4.00 FL OZ/M	Late	20.0 ab	86.7 a-d	68.3 a-j	5.7 b-f
32	LESCO Manicure Ultrex	5.00 OZ/M	Late	13.3 a-g	76.7 a-e	97.7 a	6.3 a-d
33	LESCO Revere 4000	8.00 FL OZ/M	Late	4.3 d-h	81.7 a-d	60.0 a-k	3.3 hij
34	LESCO Spectator	1.25 FL OZ/M	Late	0.0 h	10.0 m-p	56.7 a-m	5.0 d-g
35	LESCO Spectator	1.00 FL OZ/M	Early	4.7 d-h	62.0 c-l	91.7 a-d	6.3 a-d
36	Insignia	0.70 OZ/M	Late	21.7 a	93.3 abc	87.3 a-f	6.0 а-е
37	Compass	0.50 OZ/M	Late	2.7 e-h	88.3 a-d	65.0 a-j	5.7 b-f
38	Iprodione Pro	4.00 FL OZ/M	Late	15.0 a-e	90.0 a-d	75.0 a-l	6.0 а-е
39	Chipco 26GT	4.00 FL OZ/M	Late				
	Daconil Ultrex	5.00 OZ/M	Late	1.7 fgh	5.0 nop	16.3 k-q	3.0 ij
	LESCO Revere 4000	8.00 FL OZ/M	Late			-North Party and	
40	Chipco 26GT	4.00 FL OZ/M	Late	15.0 a-e	91.7 a-d	87.7 а-е	5.3 c-f
41	Daconil Ultrex	5.00 OZ/M	Late	6.7 c-h	91.7 a-d	93.3 abc	6.0 а-е
42	Chipco 26GT	4.00 FL OZ/M	Late				
	Bayleton	1.00 OZ/M	Late	0.0 h	4.0 op	3.7 pg	3.3 hij
	Turfcide 400	6.00 FL OZ/M	Late				
43	Bayleton	2.00 OZ/M	Late	0.0 h	5.0 nop	13.3 l-q	4.3 fgh
	Turfcide 400	6.00 FL OZ/M	Late				
44	Bayleton	1.00 OZ/M	Late	1.7 fgh	81.7 a-d	81.3 a-q	6.0 а-е
45	Bayleton	2.00 OZ/M	Late	0.3 h	73.3 а-е	81.7 a-g	5.0 d-g
46	Turfcide 400	6.00 FL OZ/M	Late	2.3 fgh	85.0 a-d	51.7 b-o	5.0 d-g
47	Banner MAXX	3.00 FL OZ/M	Late	1.7 fgh	6.7 nop	7.3 opg	4.7 e-h
	Medallion	0.50 OZ/M	Late				
48	Banner MAXX	4.00 FL OZ/M	Late	0.7 h	1.7 p	10.0 n-q	6.3 a-d
	Medallion	0.50 OZ/M	Late		Statistics and		
49	Banner MAXX	3.00 FL OZ/M	Late	2.7 e-h	45.0 e-l	58.3 a-l	5.0 d-g
50	Banner MAXX	4.00 FL OZ/M	Late	3.3 e-h	26.7 j-p	46.7 d-q	5.0 d-g
51	Medallion	0.50 OZ/M	Late	10.0 a-h	73.3а-е	16.7 k-q	5.7 b-f
52	Daconil Weather Stik	5.50 FL OZ/M	Late	5.7 d-h	11.7 m-p	36.0 g-q	6.0 а-е
	Medallion	0.50 OZ/M	Late				
53	Prostar	3.00 OZ/M	Late	0.0 h	7.0 m-p	12.3 m-q	4.7 e-h
	Turfcide 400	6.00 FL OZ/M	Late				
54	Prostar	4.50 OZ/M	Late	0.0 h	83.3 a-d	55.0 a-n	6.0 а-е
55	Prostar	3.00 OZ/M	Late	0.7 h	86.7 a-d	68.0 a-j	6.3 a-d
56	Heritage	0.70 OZ/M	Late	0.7 h	46.7 e-k	31.0 i-q	5.7 b-f
	Turfcide 400	6.00 FL OZ/M	Late				
57	Heritage	0.70 OZ/M	Late	20.0 ab	93.3 abc	86.7 a-f	5.3 c-f
	A AM MINI WAS IN CAMPAGE		and the second se	and the second se	And the second design of the second day of the s	A second s	

a Early and late fungicide treatments were applied on Oct. 14 and Nov. 11, 2004 at Sentryworld; Oct. 12 and Nov. 3 at Gateway; and Oct. 11 and Nov. 4 at Giants Ridge.

b Mean percent diseased area followed by same letter do not significantly differ at P=0.05, Duncan's New MRT. a=the most diseased.

C "-" means disease was not determined at Giants Ridge.

d Phytotoxicity was rated on a scale of 1-9 where 1=straw colored, 6=acceptable and 9=dark green.

Public Opinion

OPINION

ecently the topic of "meeting the golfer's expectations" has taken up much editorial space in many of our trade magazines. This is fine and dandy, as long as the information is well researched and well intended. But there was one thing that was glaringly absent from some of

these articles — quotes from actual golfers.

It seems to me some of these expectations that we assume are being placed upon us by the golfers are really expectations we're placing upon ourselves. I think it's quite obvious we all want our courses to look and play great all the time. Isn't that part of our success as superintendents? We don't sit around and ask for excessive heat and humidity during summer, do we? Of course not. We are the ones who expect our golf courses to be perfect. Consider these points:

► OF COURSE we want our greens to be the smoothest and fastest around while at the same time be lush and green and healthy instead of on the brink of death.

► OF COURSE we want the tees to be able to withstand the wear and tear of five outings a week and still look great for our regulars.

► OF COURSE the fairways should always be green and striped and disease- and weed-free at all times.

► OF COURSE we want our courses to look the best they can and blemish-free at all times.

I think if you were to ask one of your golfers what his or her actual expectations were, you might find him or her to have a much higher tolerance threshold than you thought.

I've had my share of moments when the perfectionist in me was rearing his ugly head, and I was not at all happy with how my course was looking. Then along would come a regular with a compliment about how good the course was looking and playing.

What I would like to do is put a little twist on this whole "expectations" issue. What I've become interested in lately is this: What are the superintendents' expectations of the golfers? I mean, here we are, caretakers of this vast and wonderful acreage called a golf course. All summer long we fret and worry sunup to sundown, wondering whether the turf is going to be OK.

Golf and Its Great Expectations

BY JIM BLACK



WHAT I EXPECT FROM GOLFERS IS TO AT LEAST HAVE A SHRED OF RESPECT FOR WHAT I'VE PUT IN FRONT OF THEM FOR THEIR ENJOYMENT Spray tomorrow? Fertilize tomorrow? Aerify? Spike? Seed? Water? Drain? We're incessantly babying and tweaking our programs for the benefit of the course and worrying and wondering if we're doing the right things to keep it all alive.

Then along comes Mr. Joe Golfer. He doesn't have your worries today. In fact, he's taken the day off from work and has no worries at all. What I expect out of Mr. Joe Golfer is for him to at least have a shred of respect for what I have put in front of him for his golfing enjoyment.

Now consider these points:

► If we are "Cart Path Only" today, should I expect him to simply keep his golf car on the path — not just some of the time or most of the time but all of the time? OF COURSE.

► If he hits his approach shot fat and sends the ball halfway to the green, should I expect him to shake off the mishit and hit his next shot without immediately throwing down another ball to hit a do-over — and excavating another divot that is also not likely to be replaced? OF COURSE.

► If his next shot enters into an area where some of my staff may be working on something, should I expect him to give them some sort of "heads-up" so they can move to safety? OF COURSE.

Should I expect Joe Golfer (and Josephine Golfer) to do those things that all golfers should be taught the first time they pick up a golf club — namely repairing ballmarks, replacing divots and raking bunkers? OF COURSE.

► Do I think that maybe we should all lighten up on ourselves a little, be proud of what we accomplish and enjoy the fact that we get to be on a golf course every day? OF COURSE.

Veteran superintendent Jim Black can be reached at greenkeeperjim@yahoo.com.

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Climate Control

Left. Right. Left. Right. Left. . . . Welcome . . . not to Parris Island for boot camp . . . but to the show floor of the Georgia World Congress Center

for the Golf Industry Show, set for Feb. 9-11. The convention center will become your world for

three days, and you'll be marching many a mile on the show floor. You'll be deluged with information from an array of seminars. And you'll see many things, from old faces

to new products. Speaking of the latter, here are some of the items and concepts you'll likely see or hear about while strolling the show floor:

The mark of . . .

Marking your course's out-of-bounds lines, are you?

Well, if you choose, you can ditch the aerosol paint and hazard stakes for **Pro-Mark**'s striping system and EverStripe turf paint. A lightweight and portable applicator unit allows the operator to produce consistent, distinctive and professional marking lines, the company says. The paint is also colorful and formulated with a growth-regulating agent.

Charged up

John Deere's new Gator TE utility vehicle may be electric, but it's still strong as a horse . . . er, five-point buck. The vehicle, which runs all day on an overnight charge, also features an expanded station area with high back seats and a dash-mounted forward/reverse switch.

Speaking of the Gator, **BASF**, which has adapted a NASCAR theme for this year's show, is giving away a race-inspired prize — a suped-up Gator. Superintendents should check their registration packets for *Continued on page 72*