

Hole Notes

The Official Publication of the MGCSA

*2020 MGCSA Champion
Mason Drabant*



Vol. 55, No. 7 August 2020



Upcoming MGCSA Events

The Shoot Out

September 15

The Wee One

October 5

The Scramble

October 13

On The Cover

MGCSA 2020 Champion Mason Drabant takes home the challis with a great score of 74 upon a beautifully conditioned course, The Wilds. Superintendent Joe Berggren, Assistant Kris Johannsen and their green staff had the course set fairly and ready for tournament play. Thank you!

Dr. Bob Milligan
Today's Great Leadership
Opportunity
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Hole Notes (ISSN 108-27994) is digitally published monthly except bimonthly in November/December and January/February by the Minnesota Golf Course Superintendents' Association, 10050 204th Street North, Forest Lake, MN 55025. Jack MacKenzie CGCS publisher. Please send any address changes, articles for publication, advertising and concerns to jack@mgcsa.org.

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By Jack MacKenzie

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Presidential Perspective

by Scott Thayer, Legends Club

July was another great month for golf during this pandemic of Covid-19, with lots of weather changes and some areas of our everyday lives trying to get back to normal. The difficulty of getting back to normal seems overwhelming at times and, without a vaccine, it could be a long road before we arrive there. Wearing a mask in the clubhouse, and anytime I am inside, is still hard to get used to, but I realize it must be done.

It seems every month we are in this pandemic that golf will slow down, but it continues to remain very steady. It is great for the game of golf, but, "Wow!", the abuse our course has taken in the last three months is hard to fathom. The weather has not helped either, I feel, and seems to be another roller coaster of trends to contend with. Mother Nature cannot seem to

make up her mind; one moment it is hot and humid and another it is Fall-like. Nonetheless, it has been just good enough for golf to maintain steady play, and I don't see it slowing down here in Minnesota.

Last weekend, a large storm went through Iowa with some absolutely terrible winds, leaving major damage to everything in the mid-central part of the state. Going to Iowa State and working there before coming to Minnesota, I know that area well and feel for all who were affected by that nasty storm. I am not sure what we would look like after a storm with 110 mph winds, but I honestly don't want to know. Power lines and trees everywhere, I hope that they get some help and recover quickly from all the damage.

Being an avid sports fan, (ok, I watch tons of sports and follow almost everything), it has been fun

watching pro sports coming back. It is very weird, however, to watch it with no fans, and even more crazy how they add the crowd noise for the players. This is so it is not so quiet while they are playing all by themselves, of course, but it's what they are doing! It is like having to have a sound machine on while you are sleeping when it's just too quiet to sleep, but, then again, watching a baseball game without noise would almost be eerie.

The PGA Tour is going strong. It has been really fun watching the last couple of months, with no crowds as well, no roars from the audience and no golf clap for a good shot. Again, almost eerie. The PGA Tour stop at TPC Twin Cities seemed to go very well and the course looked absolutely awesome. Mark Michalski's staff and volunteers should be very proud of the great job they did and how well they represented Minnesota during this pandemic. I even saw

some pictures of our last DSA award winner, Roger Stewart, doing some volunteer work during the tournament, which was great to see as well.

The MGCSA Board of Directors are working on making sure we have our end of the year golf events this year: The Wee One at Brackett's and the Scramble here at Legends. They will not be the same, but we are going to do our best to make it fun and safe for all who attend. The MGCSA will also be hosting a Sporting Clay Challenge at Game Unlimited in Hudson, Wisconsin. I feel after a long year dealing with so much, it will be good for us all to get together and have some enjoyable, socially distanced events; we deserve it. I know we will all have great stories, and I am excited to see many of you and hear how you are doing and how the year has gone for you. Please be safe out there and we'll talk to you soon.



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Research at the UMN*

Legends Club OCTOBER 13TH



10:00 registration/range/box lunch

11:00 Shotgun start, proximity prizes

**Outdoor BBQ reception following
Host Superintendent Scott Thayer**

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Electronic registration only by October 6th.

Purse prizes will be pro shop gift cards and based upon participation

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Prevent Backflow to Protect Water Sources 2020

Backflow Prevention

A backflow prevention device is used to protect the water supply used to fill pesticide application equipment from potential contamination due to the unexpected flow of water in the reverse direction. The Minnesota Department of Agriculture (MDA) and the Minnesota Department of Labor and Industry (DLI) regulations require the use of a backflow prevention device or a fixed air gap when filling pesticide or fertilizer application equipment from a municipal water supply, private well, or surface water.

Following are examples of acceptable and unacceptable backflow prevention practices and devices.

Further information is available in the MDA's fact sheet, *Backflow Prevention Guidelines for Ag Chem Facilities That Fill Pesticide and Fertilizer Application Equipment*, and the DLI's fact sheet *Backflow Devices, 2015 Minnesota Plumbing Code*.

Acceptable Backflow Prevention Devices

Air Gap: Maintain a fixed and permanent physical separation from the discharge outlet to the rim of the tank, container, etc. The physical distance from the opening of the application equipment to the end of the water line must be two times the diameter of the water line. An additional device is recommended for rinsing pesticide containers.

Back by Popular Demand
Sporting Clay “SHOOT OUT”

September 15, 2020
Game Unlimited in Hudson, WI



11:30 am Registration
12:00 pm Catered Lunch
1:00 pm Shotgun start

**Networking, cash bar
and short reception
following the event.**

Make a team of four and join your fellow MGCSA members for an afternoon of outdoor social interaction just across the state border in Hudson. Cash prize purses based on participation. 50 clays per shooter, multiple stations, a walk through a section of an 800 acre private preserve will make this a memorable event.

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Cost is \$50 per person or \$200 per team.
Electronic registration only by September 6th.

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Above and on the left, a fixed and ridged air gap. On right, a removable fixed air gap device.



Above: Reduced Pressure Principle or Reduced Pressure Zone Device (RPP or RPZ): Once installed, this device must be tagged and inspected by a licensed plumber. An RPZ is made up of two independent check valves with an automatic pressure differential valve located between the two valves. If either check valve leaks, the relief valve will discharge to the atmosphere. If located properly, this device could be used by itself for prevention of backflow when filling application equipment and/or rinsing or washing empty pesticide containers and application equipment.

The Wee One Tournament*

Back at the newly renovated
Brackett's Crossing Country Club
Covid-Modified for safe networking
October 5th

***No raffle, skins,
mulligans or on-course
events. Just golf for a
great cause***



10:00 am Registration and range

10:55 am Wee Putt for a chance at \$100

11:00 am Shotgun start, box lunch in your cart

***There will be no reception, cash winners will be notified
shortly after the event.***

Cost per player is \$100, Cost per team is \$400

Register at mgcsa.org

*Due to the Covid related challenges, the 2020 Wee One will be focused on “golf with friends”. All generated proceeds will be contributed to the Wee One Foundation.

Below: Pressurized Vacuum Breaker (PVB): Install a PVB 12 inches above the overflow level of equipment that is being filled under continuous pressure with a shutoff valve downstream. The most common installation of a PVB would be at an elbow in a vertical position where it is readily accessible for periodic inspection and servicing. Due to the possibility for some spillage, do not locate these valves in concealed areas where spillage of water may cause damage.



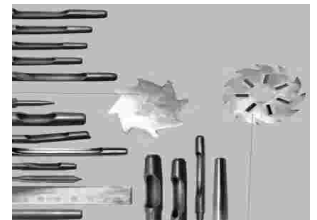
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Above, left and right: Atmospheric Vacuum Breaker (AVB): Install an AVB on a water line not subject to continuous pressure, 6 inches above overflow level of equipment being filled, and downstream of a shutoff valve.

On right: Filling hand/backpack sprayers: Fill a water-only service container and transfer the water into your sprayer.



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Rinsing Empty Pesticide Containers

Left: Firms using an air gap system or atmospheric vacuum breaker device for backflow prevention when filling agricultural application equipment should provide a Hose Connection Vacuum Breaker on the hose thread connection for other miscellaneous activities where backflow prevention would be needed such as when rinsing empty pesticide containers or filling small hand sprayers.

Hose Connection Vacuum Breaker: ASSE (American Society of Sanitary Engineering) Standard 1052 & ASSE Standard 1011 are two examples of acceptable Hose Connection Vacuum Breakers. Not rated for continuous pressure or limited continuous pressure.

The MGCSA is pleased to partner with the Minnesota Department of Agriculture to provide industry specific bulletins.



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Unacceptable Backflow Prevention Practice or Devices

- No backflow used
- No physical gap for filling backpack sprayers
- Use of check valve only
- No check valve for rinsing containers
- RPZ without inspection/tag
- Air gap maintained by a person/not fixed
- Air gap not permanent/fixed
- No physical separation in air gap
- Inadequate separation for air gap (2x the width of the water line is required)



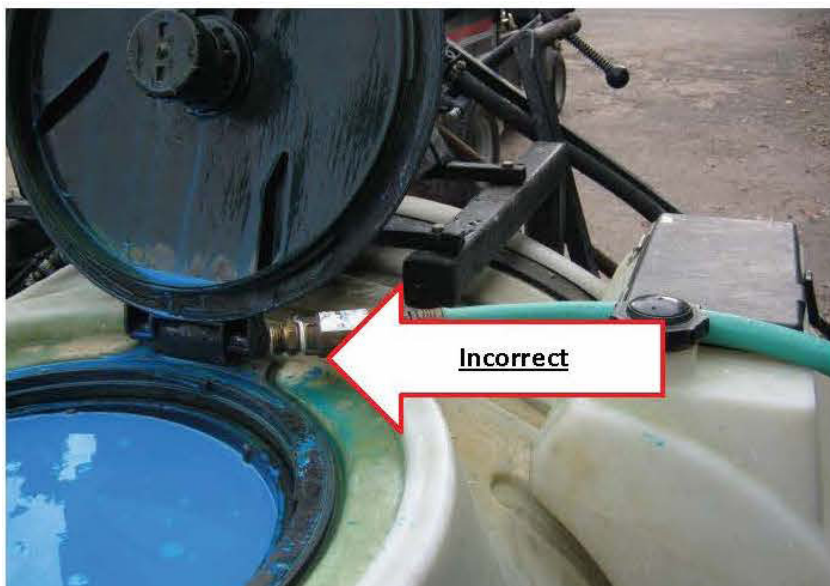
Above left: No physical separation in air gap. Above right: Air gap is not permanently attached.



DEPARTMENT OF
AGRICULTURE



No permanent air gap. Holding the fill hose is against the law.



Left: NOPE! This is not a permanent air gap. Please review the correct procedure.

Enforcement

The MDA views the lack of backflow prevention device(s) to be a serious and direct threat to groundwater. Pesticides have been and can be easily and directly back siphoned into groundwater. Due to the potential health and environmental risks associated with the lack of adequate backflow prevention, documented noncompliance will result in a Notice of Violation ORDER. MDA inspectors may also verify that a proper backflow protection device has been installed. Additional enforcement may result, including financial penalties.

Minnesota Department of Agriculture Statutory authority and fact sheet
Follow the links below to read:

[Minnesota Statute 18B.07, Subd. 5. Use of water supplies for filling application equipment](#) [Minnesota Statute 18C.201 Prohibited Fertilizer Activities](#)

As mentioned above, for additional information and examples of acceptable backflow prevention devices, refer to the MDA's fact sheet: [Backflow Prevention Guidelines for Ag Chem Facilities That Fill Pesticide and Fertilizer Application Equipment](#)

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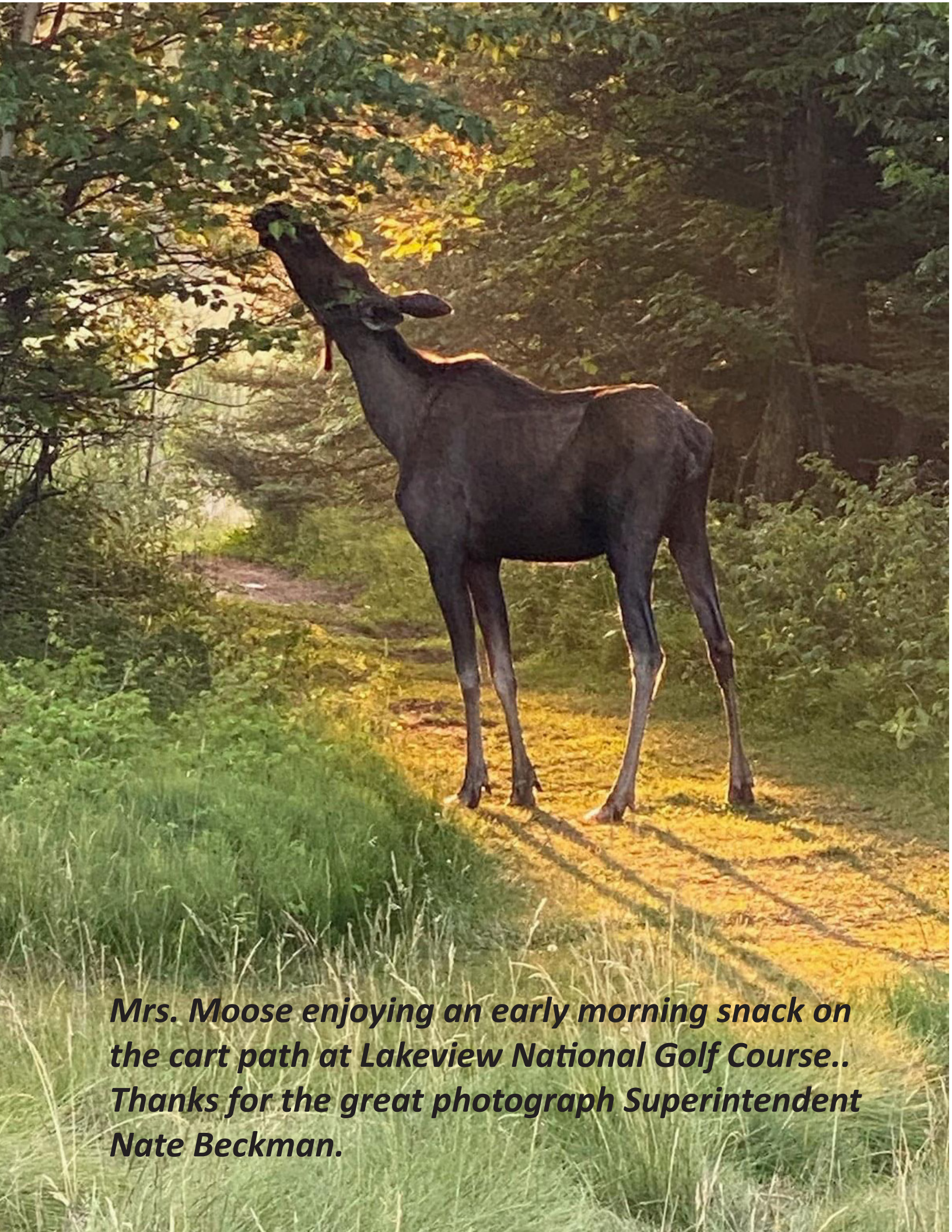
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Reinders





Mrs. Moose enjoying an early morning snack on the cart path at Lakeview National Golf Course.. Thanks for the great photograph Superintendent Nate Beckman.

2019-2020 Pink Snow Mold Control Evaluation: OJ Noer Research Facility – Madison, WI

Kurt Hockemeyer, Reid Melton, and Paul Koch, Ph.D.
Department of Plant Pathology
University of Wisconsin-Madison

OBJECTIVE

To evaluate fungicides and varying spray volumes for the control of *Microdochium* patch (caused by *Microdochium nivale*) on fairway height turfgrass.

MATERIALS AND METHODS

This evaluation was conducted at the OJ Noer Research and Education Facility in Madison, WI on an ‘Alpha’ creeping bentgrass (*Agrostis stolonifera*) fairway maintained at a height of 0.5 inches. Individual plots measured 3 ft x 4 ft and were arranged in a randomized complete block design with three replications. Individual treatments were applied at a nozzle pressure of 40 psi using a CO₂-pressurized boom sprayer equipped with two AI80025 Teejet air induction nozzles. All fungicides were agitated by hand and applied in the equivalent of either 1.5, 1.0, or 0.5 gallons of water per 1000 ft². All applications were made on 18 Nov 2019. The experimental plot area was inoculated with *M. nivale*-infested rye grains 24 hours after the fungicide applications were made and then covered with custom made insulation frames and an impermeable Greenjacket cover. The cover and frames were removed on 23 Mar 2020, and disease severity, turf quality, and turf color were evaluated. Disease severity was visually rated as percent area affected, turfgrass quality was visually rated on a 1-9 scale with 6 being acceptable, and chlorophyll content (turfgrass color) was rated using a FieldScout CM 1000 Chlorophyll Meter from Spectrum Technologies, Inc. (Aurora, IL). Treatment means were analyzed using Fisher’s LSD method and are presented in Table 1.

RESULTS AND DISCUSSION

Microdochium patch pressure was quite high under the cover and frames, however the third replication had very little disease and led to large variability in the results. Non-treated controls averaged 36.7% disease and of the 20 treatments, 5 performed exceptionally well with disease severity averaging near zero. Decreasing water carrier volume appeared to negatively affect the efficacy of Secure and Heritage TL. The phytomobility of these fungicides are a contact and acropetal penetrant, respectively. Decreasing water carrier volume appeared to have no effect on Insignia and Medallion, a localized penetrant and contact fungicide, respectively. Turf quality and turf color mostly mirrored disease severity and no significant differences were observed, though the lack of disease in the third replication likely played a role in the lack of overall significant differences. Phytotoxicity was not observed with any treatment.

[*For many more images please link here*](#)

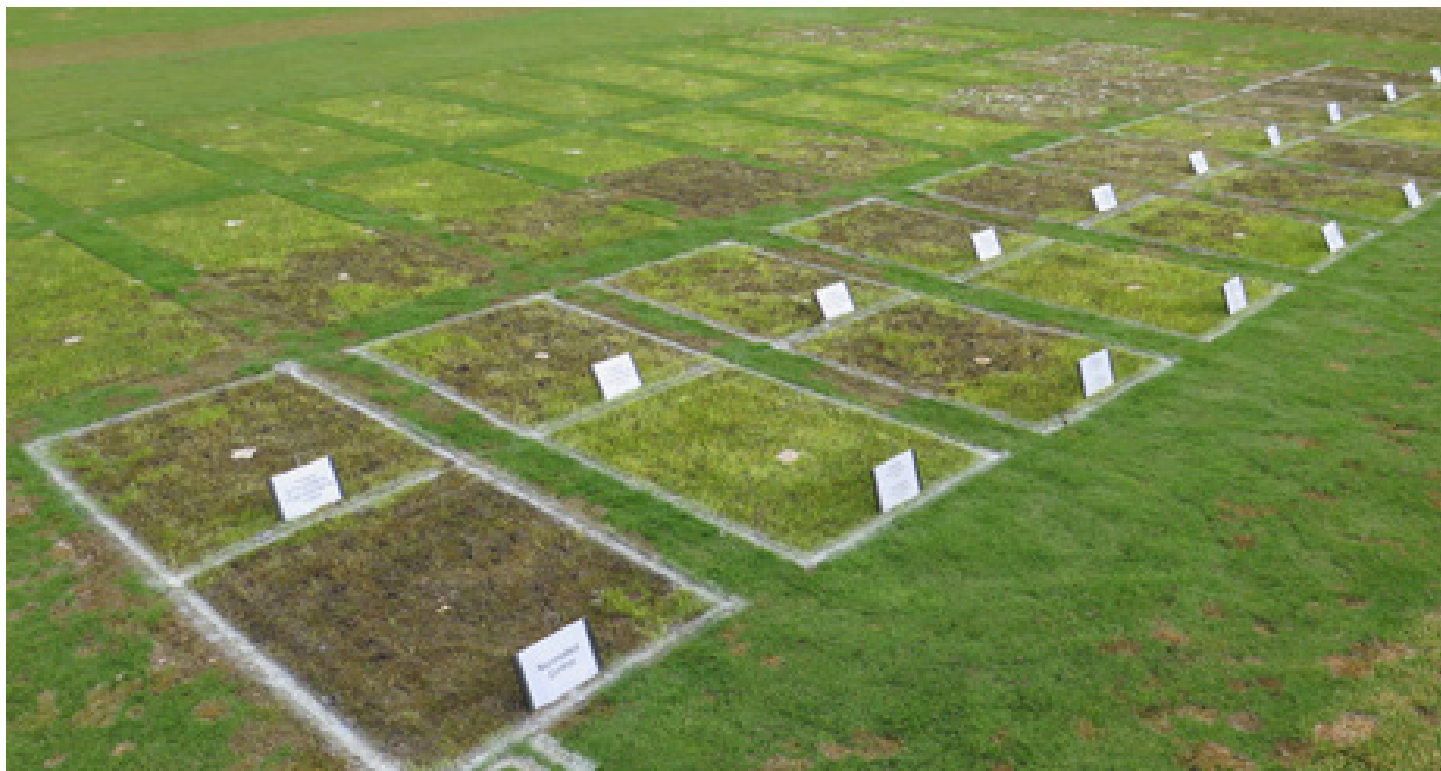




Table 1: Mean snow mold severity, turf quality, and turf color were assessed on March 23, 2020 at the OJ Noer Research Facility in Madison, WI.

	Treatment	Rate	Spray Volume ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
1	Non-treated control			36.7a-e	4.3a	175.0a
2	Enclave	8.0 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	0.0e	7.0a	181.0a
	Foursome	0.4 fl oz/1000 ft2				
3	Insignia	0.7 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	41.7a-e	4.3a	222.7a
	Trinity	1.0 fl oz/1000 ft2				
4	Trinity	1.0 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	1.7de	6.7a	160.7a
	3336F	2.0 fl oz/1000 ft2				
5	Secure	0.5 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	18.3b-e	5.7a	181.3a
6	Secure	0.5 fl oz/1000 ft2	1.0 gal H2O/1000 ft2	53.3a-d	3.3a	188.0a
7	Secure	0.5 fl oz/1000 ft2	0.5 gal H2O/1000 ft2	58.3abc	3.7a	199.7a
8	Medallion	2.0 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	0.0e	7.0a	189.7a
9	Medallion	2.0 fl oz/1000 ft2	1.0 gal H2O/1000 ft2	0.0e	7.0a	160.3a
10	Medallion	2.0 fl oz/1000 ft2	0.5 gal H2O/1000 ft2	1.7de	7.0a	193.0a
11	Insignia	0.7 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	56.7abc	3.7a	180.7a
12	Insignia	0.7 fl oz/1000 ft2	1.0 gal H2O/1000 ft2	55.0abc	3.3a	161.0a
13	Insignia	0.7 fl oz/1000 ft2	0.5 gal H2O/1000 ft2	50.0a-e	4.0a	163.3a
14	Heritage TL	2.0 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	55.0abc	3.3a	180.7a
15	Heritage TL	2.0 fl oz/1000 ft2	1.0 gal H2O/1000 ft2	58.3abc	3.3a	182.3a
16	Heritage TL	2.0 fl oz/1000 ft2	0.5 gal H2O/1000 ft2	73.3a	2.3a	177.3a
17	Instrata	7.0 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	11.7cde	5.7a	180.3a
18	Posterity	0.16 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	55.0abc	3.3a	146.7a
19	Velista	0.5 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	64.7ab	3.0a	184.3a
20	Xzemplar	0.26 fl oz/1000 ft2	1.5 gal H2O/1000 ft2	36.7a-e	4.3a	152.0a
			LSD P=.05	51.96	3.35	45.02

^aAll applications were applied on 18 Nov 2019 timing.

^bMean percent diseased area assessed on March 23, 2020.

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

^dColor was assessed using a FieldScout CM1000 Chlorophyll Meter from Spectrum Technologies, Inc.

[For many more images please link here](#)

Round One
 Play by June 5

 Round Two
 Play by July 5

 Round Three
 Play by August 5

 Round Four
 Play by August 31

 Round Five
 Play by September 30


CL

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White Champion

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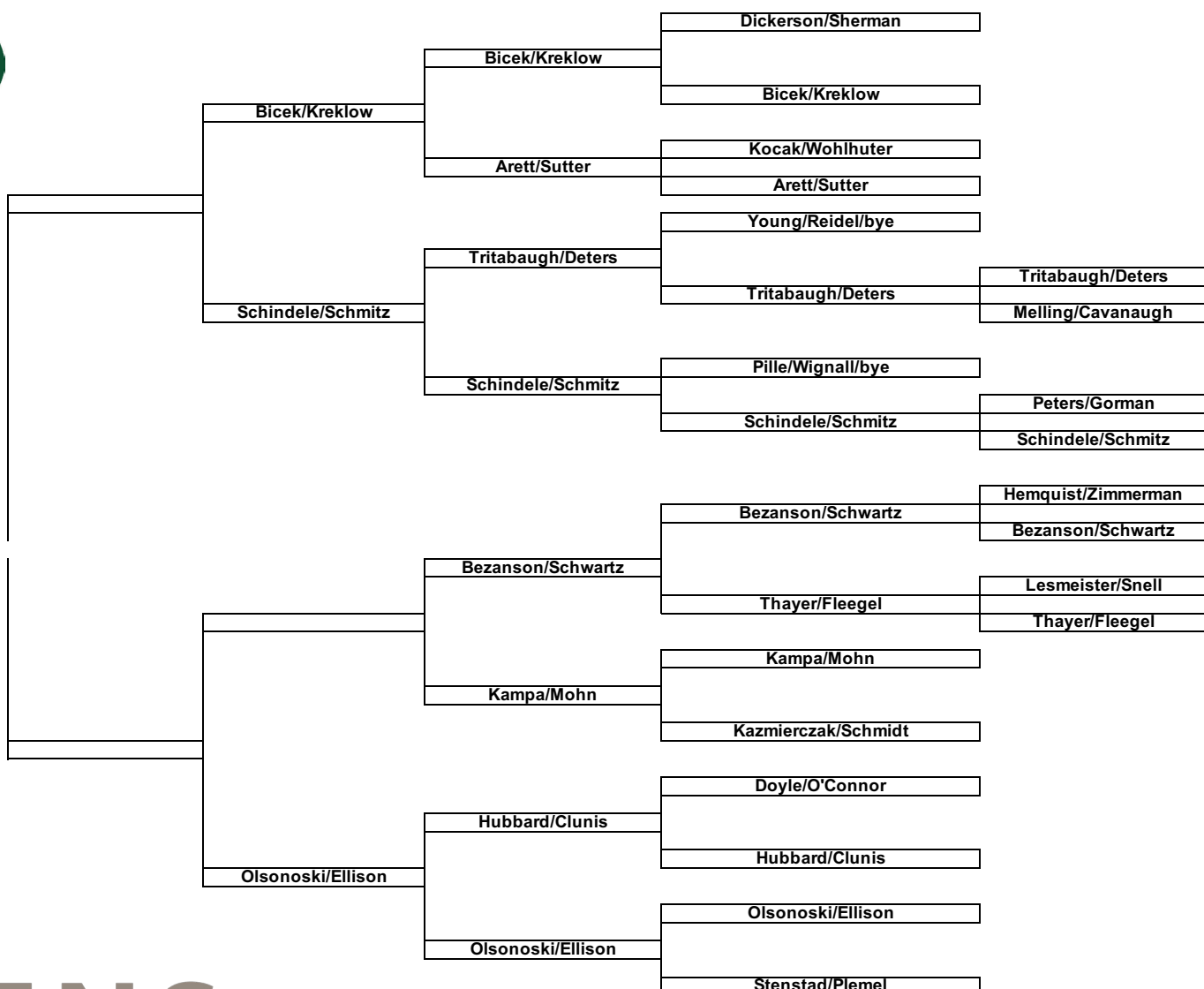
Round Five
Play by September 30

Round Four
Play by August 31

Round Three
Play by August 5

Round Two
Play by July 5

Round One
Play by June 5



CLESSENS

Students for participating in this fun
Thank you Clesens for your support.
We are the same without you!

2019-2020 Snow Mold Control Evaluation: Marquette Golf Club – Marquette, MI

Kurt Hockemeyer, Reid Melton, and Paul Koch, Ph.D.
Department of Plant Pathology
University of Wisconsin-Madison

OBJECTIVE

To evaluate fungicides for the control of gray snow mold (*Typhula incarnata*), speckled snow mold (*T. ishikariensis*), and Microdochium patch (*Microdochium nivale*) on golf course turfgrass.

MATERIALS AND METHODS

This evaluation was conducted at Marquette Golf 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 inches. 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 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 2 Oct 2019 and late applications were made on 25 Oct 2019. The experimental plot area was not inoculated. Snow cover was present from early November through early April, a total of approximately 150 days. Disease severity, turf quality, and turf color were measured on 9 Apr 2020. Disease severity was visually rated as percent area affected, turfgrass quality was visually rated on a 1-9 scale with 6 being acceptable, and chlorophyll content (turfgrass color) was rated using a FieldScout CM 1000 Chlorophyll Meter from Spectrum Technologies, Inc. (Aurora, IL). Treatment means were analyzed using Fisher's LSD method and are presented in Table 1.

RESULTS AND DISCUSSION

Snow mold pressure was very high in Marquette during the winter of 2019-2020 as evidenced by the non-treated controls averaging 87.5% disease. On average about 30% of the disease present was caused by *M. nivale* and 70% was caused by *T. ishikariensis*, though pathogen breakdown within each treatment was not rated. There were 23 treatments that averaged less than 10% disease and 16 of those averaged less than 5% diseases, which is an exceptional performance given the high disease pressure. Turf quality and turf color mostly reflected disease severity and there were 23 treatments that had an average turf quality greater than 6. Phytotoxicity was not observed with any treatment.



Table 1: Mean snow mold severity, turf quality, and turf color were assessed on April 9, 2020 at Marquette Golf Club in Marquette, MI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
1	Non-treated control			87.5a	1.5rst	102.8u-A
2	Premion	6.0 fl oz/1000 ft ²	Late	4.3w-z	6.8a-d	174.3b-n
	Previal	4.0 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
3	Premion	6.0 fl oz/1000 ft ²	Late	17.5q-z	5.0f-j	178.0b-l
	Previal	5.5 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
4	Premion	8.0 fl oz/1000 ft ²	Late	0.5yz	7.8ab	189.5a-h
	Previal	4.0 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
5	Premion	10.0 fl oz/1000 ft ²	Late	1.3yz	7.5abc	204.0a-d
	Previal	4.0 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
5	Premion	10.0 fl oz/1000 ft ²	Late	4.3w-z	7.0a-d	206.8a-d
	Previal	5.5 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
7	Premion	10.0 fl oz/1000 ft ²	Late	0.5yz	7.5abc	171.8b-o
	Secure	0.5 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
8	Concert II	5.5 fl oz/1000 ft ²	Late	1.8yz	7.0a-d	223.5a
	Turficide	8.0 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
9	Concert II	8.3 fl oz/1000 ft ²	Late	0.0z	7.8ab	204.3a-d
	Turficide	8.0 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
10	Turficide	6.0 fl oz/1000 ft ²	Late	5.5v-z	6.3c-f	211.5ab
	Previal	4.0 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
11	Turficide	8.0 fl oz/1000 ft ²	Late	5.5v-z	6.3c-f	209.5abc
	Previal	5.5 fl oz/1000 ft ²				
	Foursome	0.5 fl oz/1000 ft ²				
12	Enclave	8.0 fl oz/1000 ft ²	Late	28.8m-t	4.5h-l	180.5b-l
	Foursome	0.4 fl oz/1000 ft ²				
13	Enclave	4.0 fl oz/1000 ft ²	Early/Late	36.3i-r	4.3i-m	159.5f-q
	Foursome	0.4 fl oz/1000 ft ²				
14	Zio	0.9 oz/1000 ft ²	Late	91.3a	1.0t	96.3w-A
	Torque	0.6 fl oz/1000 ft ²				
15	Torque	1.1 fl oz/1000 ft ²	Late	95.0a	1.0t	93.5x-A
16	Traction	1.3 fl oz/1000 ft ²	Late	26.3n-u	4.8g-k	173.8b-n
	26/36	4.0 fl oz/1000 ft ²				
17	Traction	1.3 fl oz/1000 ft ²	Late	34.3j-s	4.8g-k	166.8d-p
	26/36	8.0 fl oz/1000 ft ²				
18	Affirm	0.9 oz/1000 ft ²	Late	53.8e-j	3.5k-o	114.8s-A
	Civitas Pre-Mixed	17 fl oz/1000 ft ²				

^aEarly treatments applied on Oct 2, 2019 and late treatments applied on Oct 25, 2019

^bMean percent diseased area assessed on Apr 9 2020.

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

^dColor was assessed using a FieldScout CM1000 Chlorophyll Meter from Spectrum Technologies, Inc.

Table 1(cont): Mean snow mold severity, turf quality, and turf color were assessed on April 9, 2020 at Marquette Golf Club in Marquette, MI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
19	Tourney Affirm	0.44 oz/1000 ft ² 0.9 oz/1000 ft ²	Late	63.8c-f	2.5o-s	127.3p-z
20	NUP-19022	9.28 fl oz/a	Late	91.3a	1.3st	97.8v-A
21	NUP-19022 Traction	9.28 fl oz/a 1.3 fl oz/1000 ft ²	Late	90.0a	1.3st	91.8yzA
22	Insignia Trinity	0.7 fl oz/1000 ft ² 1.0 fl oz/1000 ft ²	Late	40.0h-p	3.8j-o	129.8p-y
23	Insignia Trinity 26/36	0.7 fl oz/1000 ft ² 1.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ²	Late	16.8r-z	5.3e-i	177.3b-m
28	Bayleton Flo 26/36	1.9 fl oz/1000 ft ² 4.0 fl oz/1000 ft ²	Late	52.5e-k	3.3l-p	132.0o-x
29	C. rosea (88-710)	50.0 g/a	Early	92.5a	1.0t	89.8yzA
30	C. rosea (ACM 941)	50.0 g/a	Early	92.5a	1.3st	93.8x-A
31	Instrata	9.3 fl oz/1000 ft ²	Late	18.8q-z	5.0f-j	150.0h-t
32	Turficide	8.0 fl oz/1000 ft ²	Late	42.5g-o	4.0i-n	163.3e-p
33	C. rosea (88-710) Instrata	50.0 g/a 9.3 fl oz/1000 ft ²	Early Late	28.8m-t	5.0f-j	137.3m-v
34	C. rosea (ACM 941) Instrata	50.0 g/a 9.3 fl oz/1000 ft ²	Early Late	16.0s-z	5.8d-h	178.8b-l
35	C. rosea (88-710) Turficide	50.0 g/a 8.0 fl oz/1000 ft ²	Early Late	23.8n-w	5.0f-j	140.5l-u
36	C. rosea (ACM 941) Turficide	50.0 g/a 8.0 fl oz/1000 ft ²	Early Late	31.3l-t	4.8g-k	152.3g-s
37	A13705V A19188B Turficide Ambient Plus	2.6 fl oz/1000 ft ² 1.0 fl oz/1000 ft ² 6.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	6.3u-z	6.8a-d	180.3b-l
38	Instrata Turficide Ambient Plus	11.0 fl oz/1000 ft ² 6.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	0.0z	8.0a	195.3a-f
39	A15457R A17856B Turficide Ambient Plus	0.24 fl oz/1000 ft ² 1.88 fl oz/1000 ft ² 6.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	5.5v-z	7.0a-d	182.3b-k

^aEarly treatments applied on Oct 2, 2019 and late treatments applied on Oct 25, 2019

^bMean percent diseased area assessed on Apr 9 2020.

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^dColor was assessed using a FieldScout CM1000 Chlorophyll Meter from Spectrum Technologies, Inc.

[For many more images please link here](#)



Table 1(cont): Mean snow mold severity, turf quality, and turf color were assessed on April 9, 2020 at Marquette Golf Club in Marquette, MI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
40	A15457R A17856B Banner Maxx Ambient Plus	0.24 fl oz/1000 ft ² 1.88 fl oz/1000 ft ² 1.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	4.8w-z	6.8a-d	178.0b-l
41	A15457R A17856B Banner Maxx Ambient Plus	0.24 fl oz/1000 ft ² 1.88 fl oz/1000 ft ² 2.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	1.8yz	7.0a-d	160.5f-q
42	A15457R A17856B Banner Maxx Ambient Plus	0.24 fl oz/1000 ft ² 1.88 fl oz/1000 ft ² 3.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	13.8t-z	5.3e-i	192.5a-f
43	Banner Maxx A15457R A17856B Ambient Plus	2.0 fl oz/1000 ft ² 0.24 fl oz/1000 ft ² 1.88 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Early Late Late Late	5.5v-z	6.8a-d	160.3f-q
44	A22835C Ambient Plus	2.87 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	5.5v-z	6.8a-d	205.3a-d
45	A22835C Ambient Plus	2.16 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	35.0j-s	4.3i-m	132.0o-x
46	Banner Maxx A22835C Ambient Plus	4.0 fl oz/1000 ft ² 2.87 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Early Late Late	3.5xyz	7.0a-d	152.0g-s
47	Banner Maxx A22835C Ambient Plus	4.0 fl oz/1000 ft ² 2.87 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	19.3q-z	5.3e-i	183.0b-j
48	A15457R A17856B Ambient Plus	0.236 fl oz/1000 ft ² 1.88 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	5.0v-z	6.8a-d	182.8b-j
49	A19188B A13705V Ambient Plus	1.0 fl oz/1000 ft ² 2.61 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	48.8e-m	3.8j-o	163.3e-p
50	Instrata Ambient Plus	11.0 fl oz/1000 ft ² 0.37 fl oz/1000 ft ²	Late	5.3v-z	6.5b-e	186.3a-i
51	BCP1803 Fame	1.7 fl oz/1000 ft ² 0.36 fl oz/1000 ft ²	Late	3.5xyz	6.5b-e	179.3b-l
52	BCP1803 Fame 3336F	1.7 fl oz/1000 ft ² 0.36 fl oz/1000 ft ² 6.0 fl oz/1000 ft ²	Late	25.0n-v	5.0f-j	211.0ab
53	BCP1803 Fame QP Chlorothalonil	1.7 fl oz/1000 ft ² 0.36 fl oz/1000 ft ² 5.25 fl oz/1000 ft ²	Late	0.5yz	7.5abc	192.8a-f
54	BCP1803 3336F	1.7 fl oz/1000 ft ² 6.0 fl oz/1000 ft ²	Late	42.5g-o	3.8j-o	121.5q-A

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Table 1(cont): Mean snow mold severity, turf quality, and turf color were assessed on April 9, 2020 at Marquette Golf Club in Marquette, MI.

	Treatment	Rate	Application Timing ^a	Disease Severity ^b	Turf Quality ^c	Turf Color ^d
55	BCP1803 3336F	1.7 fl oz/1000 ft ² 8.0 fl oz/1000 ft ²	Late	56.3d-i	3.0m-q	110.0t-A
56	Interface	6.0 fl oz/1000 ft ²	Late	65.0b-e	2.8n-r	134.8n-w
57	Daconil Wthrstk Interface Mirage	5.5 fl oz/1000 ft ² 6.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ²	Late	0.5yz	7.8ab	187.5a-i
58	Interface Mirage Turfside	6.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ² 6.0 fl oz/1000 ft ²	Late	0.0z	8.0a	192.0a-g
61	Interface Mirage	6.0 fl oz/1000 ft ² 2.0 fl oz/1000 ft ²	Late	33.8j-t	4.5h-l	129.5p-y
63	Instrata	11.0 fl oz/1000 ft ²	Late	23.8n-w	4.8g-k	143.0j-t
LSD P=.05				20.16	1.46	40.12

^aEarly treatments applied on Oct 2, 2019 and late treatments applied on Oct 25, 2019

^bMean percent diseased area assessed on Apr 9 2020.

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

^dColor was assessed using a FieldScout CM1000 Chlorophyll Meter from Spectrum Technologies, Inc.



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2020 MGCSA Le



Jenna Fischer

**Parents: Joe and Shari
Fischer**

**Joe is the Superintendent
at Northern Hills Golf
Course in Rochester, MN**

Jenna is a 2020 graduate of John Marshall High School in Rochester, Minnesota. Jenna was involved in volleyball, band, and golf in school. She enjoys several outdoor activities including hiking, hammocking, and of course golfing. She is currently employed at a local movie theatre and is an avid movie buff.

Jenna will be entering her freshman year at University of Minnesota - Mankato campus this fall. During high school she was able to become a certified nursing assistant. In college she plans to go into the medical field as a registered nurse, with hopes of becoming a nurse anesthetist.

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Legacy Scholarship Award Recipient

Minnesota Chapter



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2020 MGCSA Le



Elliott Ische

Parents: Jennifer and Jeff Ische

Jeff is an affiliate member of the MGCSA. He is a Product Marketing Manager at The TORO Company

Elliott Ische of Shorewood, MN is a 2020 Magna Cum Laude graduate of Minnetonka HS. He volunteered at youth football and lacrosse camps, packed meals for Feed My Starving Children and did Adopt-a-Highway roadside cleanup. He was a two-year varsity football starter and senior captain and was a four-year varsity lacrosse starter and senior captain. He holds the school football single game, single season and career tackling records, was awarded All-District First Team honors in football twice, All-State First Team honors in lacrosse twice, and the school male Athlete of the Year as a senior. He has worked part time at Golden Valley Country Club the past four summers.

Legacy Scholarship Award Recipient

Elliott will be attending the University of Denver (CO) this fall where he plans to study mechanical engineering and will play on their Division 1 lacrosse team. He cannot wait to get started!

Thank you to Par Aide and the MGCSA for generously sponsoring these scholarships!





2020 Joe Garske

Renewal Recipient

Lida Dodge

**Parents Jenny and Vincent
Dodge CGCS**

**Vince is the Superintendent
at Nemadji Golf Course**

On behalf of myself, Vince Dodge, and my daughter, Lida Dodge, we would like to offer a sincere thank you to both the Minnesota Golf Course Superintendents Association and the Garske family for the offered scholarship. This assistance will be put to good use in the fall when classes begin.

Lida is currently studying to become a teacher with an emphasis on Early Childhood Development. She has both shown a great affinity for and patience with young people and hopes to make productive use of these skills in the future. Indeed, Lida has a job over the summer being a nanny for a three year old girl and a four year old boy. She is currently enrolled at Aurora University in Aurora, IL and is living with her grandmother as she attends classes. Lida has made the transition from a rural environment like Ely, MN to an urban one near Chicago with little difficulty though at times she misses the north woods and all the wonderful friends she has in Minnesota.

Legacy Scholarship Award Recipient



2020 Joe Garske

Sophia Kelly

Grand parent: Mike Kelly

Mike is an affiliate member of the MGCSA. His company's name is Environmental Agronomics.



I am extremely proud of Sophia, the recipient of the Garske Scholarship. She not only has a great scholastic achievement record but has the unusual ability to balance several activities throughout her life. Sophia keeps a level head and has personality galore.

As student council president, Sophia will be speaking at their delayed Rocori H.S. graduation ceremony in Mid-July. I am confident that her message, for the parents and her classmates, will be delivered with excitement and humor.

At school, she has been involved with Theater, Dance Line, Tennis and Golf activities. She has tried several sports and activities. Sophia has involved with performance ice skating for 11 years. When water skiing, she is much more graceful than her grandfather.

Involvement with church activities included the normal education and community attendance. She has participated in a church mission trip to Colorado. Caring for others is important to her.

Legacy Scholarship Award Recipient



ity in town. Last summer Sophia worked at a local coffee shop and this year is working as a Nanny, for a young baby. With both of Sophie's parents working, there is always work at home, taking care of her two younger brothers.

Sophia will be attending St Benedicts University and will be majoring in Elementary Education. I expect that the students that have her as a teacher will benefit from her many talents.



I thank the Garske Family for making this scholarship available

Today's Great Leadership Opportunity

By Dr. Bob Milligan, Learning Edge and Dairy Strategies

The distinction and relationship between management and leadership is more relevant and important in our current crisis and recovery than ever before. In this article I share some of my new thoughts - perhaps insights (you decide) - and stress the importance of leadership in our current environment.

We start with two key relevant topics. The first is a description of power and influence as they are key to optimal use of management and leadership. The definition of influence is the ability to affect the behavior of others. Both management and leadership require influence. The success of



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management and leadership influence requires power, defined as influence potential. Power is the resource given to leaders by followers who in turn expect their needs to be met.

There are many sources of power, but they can be divided into formal and informal power. Formal power is based on the position held by the leader, manager, or supervisor. Informal power includes all forms of influence other than the formal positional power. Informal power sources include coercive (not recommended), connection, reward, personal, information and expert. As we discuss in greater detail below, the key is the balance between and timing of formal and informal power to influence followers.

The second topic is that business success (personal also) is accomplished by the effective use of both management and leadership. In this article, we first review my previous speaking and writing on management and leadership. We then address my new thinking and focus on the great potential for leadership in this uncertain time.



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Management and Leadership

The table below from Dr. John Kotter's book *Accelerate: Building Strategic Agility for a Faster-Moving World* contrasts management and leadership.

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Revisiting Management and Leadership

Above we described formal leadership as the power or authority one has due to the position held. Management, whether of cows or crops or people relies almost exclusively on formal power. Formal power and thus management results in people - employees - performing/doing tasks because they must. Given what we know today about motivation and employee performance, our goal should be to have employees perform/do tasks because they are engaged thus want to excel and succeed, not because they must please the boss.

Gaining this engagement so employees want to perform and succeed requires the effective use of informal power - encouragement, authenticity, clarity, inspiration, communication, collaboration, expertise, redirection, humility, etc. Looking at the table above, these informal powers - influencers - are part of rallying people to a better future - leadership

I have typically focused rallying people to a better future mainly in strategy, vision, etc. terms. With our current crisis, I have realized that this future could be in 1 minute, 1 hour, 1 day, 1 month, 1 year, 1 decade, 1 career.

Stephen Covey used a ladder analogy to compare management and leadership. Management is efficiently climbing the ladder; leadership is determining whether that ladder is leaning against the right wall. Again, that analogy is often used in a strategic sense. It can also be used as a key to determine the daily balance between management and leadership.

In day to day operation, once plans are established, the ladder is set - leaning against the wall. The owner, team leader, or supervisor is now in management mode to execute the plans that have been developed. The development of the plan, whether for the day or week or cropping season

or milking routine, is another matter. When the owner, team leader, or supervisor develops the plan; he or she is using the ladder already in place - acting as a manager - and then uses his or her formal power to implement the plan.

To gain commitment to the plan, the owner, team leader, or supervisor should be in leadership mode and use informal power to gather input from team members and engage the team in collaborative discussion. The hoped-for result is the ladder leaning against the best wall and everyone committed to following the leader to execute the plan.

Engaging employees and team members in these collaborative discussions is not easy. Success, however, cannot be achieved by using one's formal power or authority to tell everyone to collaborate. Free flowing input, collaboration, and team spirit can only be achieved through leadership using informal power to engage team members to rally to a better future.

Leadership in the current environment

Today likely presents the greatest leadership opportunity for essentially every owner, leader, supervisor, and even individual in our lifetime. The reason is that all of us are feeling at least uncertainty if not frustration, anger, fear, loneliness, and even depression. Individuals with these emotions are more likely to rebel or reduce compliance to authority and formal power. Look at what happened in the streets of Minneapolis, all over the country, and is not especially prevalent in bars.

The response to leadership using ***informal power***, on the other hand, is likely very positive. People are craving communication, connections, and feelings of belonging. Today's leadership opportunity is to connect with your people and develop a sense that we and the farm/business will get through this together.

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Here are suggestions:

- **Be Visible** (socially disciplined). Always say “hello’ and be friendly. This may be contrary to how you are feeling personally, but your responsibility as a leader is to structure your behaviors to meet the needs of your people.
- **Provide positive feedback and show appreciation.** These are always valuable but never more so than today.
- **Be clear** - “chalk the field” as I call it. There is uncertainty everywhere. The clarity you provide about expectations, rules, assignments, etc. will be truly appreciated rather than when absent adding additional uncertainty.
- **Consider some form of consistent communication.** This could be a weekly email or text, so everyone knows what is happening on the farm or business. Also, it is a great place to share successes on and off the farm and current events like birthdays, births, etc.
- **Ask for input and involve people in planning and decision-making.** You do not want to traverse this crisis alone so build the team to help you.
- **Provide redirection feedback so everyone can succeed and grow.**
- **Inevitably there are conflicts.** Address those conflicts with care and empathy. In essentially every case both parties have some culpability in the conflict. Consider, starting the discussion by admitting your culpability and apologize if necessary. Then move to resolve the conflict.
- **Be more of a leader and a friend - informal powers - and less of a boss - formal power.**



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tie, scorecard playoff
2nd Matt Dahlke 74***

***First Flight
Low Gross
Nathan Peters 82
Gregg Paulus 83***

***First Flight
Low Net
James Westendorf 70
Wes Stoneback 72***

In Bounds

by Jack MacKenzie, CGCS



Another line. This one, the first of a three-hop trek into Forest Lake, is at the bank drive through. Today is errand day and I am stuck behind a silver Prius which quietly sneaks ahead in the chain of vehicles, ten feet at a time. Tired of Covid-19 news on “the good neighbor”, I focus on an annual issue and begin to pick burrs from my faithful hound’s coat.

Those who own dogs can appreciate that it is “the season”. This will help me pass time as I move slowly through the now common Covid-Queue. Air conditioning on, my toy Australian Shepard sits patiently while I carefully remove burrs intermingled with hair tufts and deposit them into beverage holder number one, between the car seats, just ahead of the designated Covid – 19 mask hamper, cup holder number two.

This pandemic monkey business is beginning to wear on me. On one hand I have no issues with mandated social distancing, as I have never been fond of society’s once overly common touchy-feely, handshake, pull-in, back slap, bear-hug to everyone including casual acquaintances. I have used public restrooms and know of too many guys who make a deposit and head out the door without washing their hands. Yuck! And those hands shake hands, that shake hands and so on and so on.... I am thrilled people have taken Purell to heart and now are mindfully protecting ME from their germs.

On the other hand, I am frustrated with the inconveniences of living my life based upon what I call, “the

greatest vulnerability denominator". Each of you are likely well aware of an individual in your family or friend group that is either quite senior or has a weakened immune system or falls into the slot of health compromised.

Of course, close proximity precautions are warranted during the pandemic we now live. It is the respectful thing to do, easy to accomplish and compassionate, not to mention nobody wishes to become sick. As I was told by a friend of mine, "you are either all-in or not. And if you are not, then I don't care to have anything to do with you". I agree. Our society has to overcome this malady through being all-in and adhering to the "greatest vulnerability denominator".

My gypsy spirit hates the idea, but there are individuals in my life whom I care a great deal about and, thus, I must curtail aspects of my existence that, up until about six months ago, I took for granted. Per-

sonally, I am in great health, physically fit and live a robust, yet sound, lifestyle. I attack life with a risk-averse attitude despite occasionally placing myself deep in the wilderness.

I have two wonderful granddaughters whom I am privileged to see while I continue to live within my stepson and daughter-in-law's "healthy" approved bubble of family/friends. Everyone in this group has consciously made the choice to limit our potential exposure to Covid-19 by living ultra-responsible lifestyles. No public gatherings, shopping early in the morning, hand sanitizer, excessive mask use, extremely limited and only outdoor or take out dining and controlled non-contact with friends/neighbors. My wife and I conscientiously lead lifestyles that permit us access to our grandchildren.

If we violate those guidelines, we will find ourselves outside the approved bubble. The same cautious

principles apply to my dear 87-year-old mother-in-law who spent three months under our roof at the onset of the pandemic. Now, she is sequestered in her apartment/senior living facility and we feel comfortable visiting her in a controlled, outdoor environment to protect her health. And again, our over-the-top approach assures our continued visitation privileges with our grandchildren.

But I sure don't like the restrictions I live with and their impact on my personal freedoms. Winter is coming. Historically, it has been a time when I enjoyed networking with you at meetings, educational programs, conferences and social opportunities. Outstate/out of state travel was once a delight, as I interacted with the MGCSA membership in their home regions. My visits to the State Campus used to ramp up dramatically during the fall and well into spring.

However, because I value my fam-

ily and, selfishly, my access to them whenever I choose, none of these in-person and indoor interactions will be happening until a viable solution to the Covid-19 crisis is arrived upon. Rest assured that I will continue to represent and support this association to the best of my abilities. If we can meet outdoors, if my actions, and attitude, lean toward the extremes of caution.

Many of you are in the same situation, or perhaps even more deeply consumed, as you ponder your children and their educational options, cold season employee interactions, aging parents and socialization. If you are "all in", the decisions are relatively clear, but that doesn't mean anyone enjoys making the choice.

Following my second stop, delivering the Championship Trophy for engraving, I socially distanced myself in the queue at the post office to purchase stamps and mail a new member packet. My Bayer neck-

erchief must have been pretty attractive, as all in line gave me long looks, including the postmaster who appeared especially inquisitive. Perhaps she was having trouble reading the logo?

Curious now, when I got back in my car, I checked in my rearview mirror to personally witness how awesome I looked. Much to my chagrin, I saw

that I had somehow picked up a ginormous bunch of hair entangled burrs, just under my protruding nose, and had worn them, with resplendent display, inside the post office.

The vaccine cannot come soon enough! I am tired of Covid -19.

