

WTA Field Day Wrap-up

By Bruce Schweiger, Manager, O.J. Noer Turfgrass Research and Education Facility

Kenosha CC
Golf Outing
Registration page 11

The WTA Summer Field Day 2018 was another success. Many heard of the road construction on County Highway M and those that have visited the O.J. Noer Facility have complained. There was a fear that attendance would suffer due to the difficulty in traveling here. I have always marveled at the support the WTA and the University of Wisconsin Madison turf program receive from industry, this year was no exception. Attendance was good at 251 attendees. The weather was terrific, the educational sessions well received and timely. Gaylord Catering provided another tasty breakfast and lunch. The support from our vendors in the trade show continues to be strong and getting stronger.

The day began with some spirited conversation (an extensive topic was the weather) topped with donuts and coffee. The opening session included the dedication of the new storage building. After welcoming remarks from Dr. Soldat, he turned to the dedication of the new building. This building was funded by the WGCSA and the WTA. Station superintendent Bruce Schweiger thanked the WGCSA and WTA for all of their support. Associate Dean Dick Straub from the College of Agricultural and Life Sciences thanked the group for all their hard work in funding this project. He was followed by WTA president Paul Huggett who welcomed everyone and acknowledged their continued support of the WTA. This support allows the WTA to continue to promote the turfgrass program at the University of Wisconsin – Madison. Mike Peters, Director of the Agricultural Research Stations expressed the need for industry support to make projects like this building possible. With all the pleasantries taken care of, attendees divided themselves into five groups and the education began. The topics for the morning tours were:

- Diseases of Over-Watered Lawns
- Calibration of a Stand-on Sprayer
- Wildlife Damage Management
- Effect of Pesticide Residue Within Turfgrass Guttation Fluid on Pollinators
- Kentucky Bluegrass Cultivar Evaluation and Organic Weed Control
- Post-Emergent Control of Crabgrass



Mike Peters, Paul Huggett, Dick Straub, Bruce Schweiger, Brett Grams

With Dr. Williamson taking a one-year sabbatical that started on May 1st, Audrey Simard, Masters student in Entomology, presented her research project which includes harvesting guttation water from a bluegrass plot and a bentgrass putting green plot. Each plot has various plant protectants applied to them. After the applications, she takes samples to see if and how long she can detect each plant protectant. This work will allow entomologists and turfgrass managers the insight into what if any plant protectants are found in turfgrass guttation fluid after plant applications.

Dr. Dave Drake, University of Wisconsin – Madison, Wildlife Management, discussed the wildlife we encounter every day and ways to deal with them. He was quick to point out that elimination or eradication may not be good options for a wide variety of reasons. In many cases, you can explore repellants or scare tactics, habitat modification, exclusion from the area (fences) or increased tolerance when we realize the animal is not doing any real harm. The populations you see and those that you actually have can be very different. As Dr. Drake says, everything can live in moderation and harmony but we need to understand all the players.

Many of the lawn care and landscape applicators enjoyed the Z-spray calibration tune-up given by Kurt Hockemeyer from the Turfgrass Diagnostic Lab. A few of the applicators mentioned they

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PRESIDENT'S MESSAGE

Communication

By Paul Huggett, Paul's Turf & Tree



Summer Field Day was a great experience for me! Dedicating our new storage building the WGCSA funded, catching up with friends and other growers. You can say all you want about getting your information online, for me the value of face to face as well as touch, see and hear has much higher value than a picture or conversation in a text.

Do you ever get those texts that you need to interpret? Without a voice inflection or cadence, "You did great", as a

text can range from praise to sarcasm. I generally respond to a text conversation once or twice. More than that, I pick up the phone and call. I hope you were able to get the same out of our Summer Field Day. A big thank you to Bruce Schweiger for getting the place looking

good, Audra for organizing and Paul Koch, Doug Soldat and Kurt Hockemeyer as well as all the researchers who helped present the research information to attendees.

August is always a transition month. Last minute vacations before the kids are back in school. Growing conditions changing from survival mode to recovery and thriving mode. It always amazes me how the "puffy" fairway bentgrass converts itself back to hugging the ground like it should, literally overnight once the temperatures drop. Weeds are loving our summer heat and adapt well going from the menace of foliage to a frightening stalk of weed seeds reminding us the fight will continue. My Dad always used to enjoy the look of the farm in June and July. He would comment on its tired look at the end of the growing season. Then as fall crops mature and harvested and the field edges really show who is boss when it comes to controlling what ground vegetation should be.

The delivery truck awaits so I will leave this short. Don't forget to sign up for the WTA golf outing at Kenosha Country Club Monday October 1st. For more information and to register online go to www.wisconsin-turfgrass-association.org. ■



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Dr. David Drake explains how to work with the wildlife that might be causing problems.



Dr. Paul Koch explains the general symptoms of specific turf diseases.

only drive them as instructed. After this brief summary, operators had a better understanding of how the way they operated the Z-sprayer could impact applications.

Dr. Koch presented the basics for general turfgrass lawn issues. He discussed Red Thread, Leaf Spot, Dollar Spot, Brown Patch and Summer Patch. For each of these disease issues he discussed symptoms, what part of the plant is affected, when the infection occurs versus when the symptoms occur and how to manage each disease.

Nick Bero from the Soil Science department presented a crabgrass post-emergence trial. In this trial there are 5 different products with varying chemistries. He rated the percent control and percent turf industry through the second week of the trial. Many of the product

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Dr. Doug Soldat tells attendees the new research being conducted at the O.J. Noer Facility.



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provided good control with 4 out of 5 having a 90 plus percent control. Of the five products, there were varying degrees of turf injury after two weeks with all injury recovering in time.

Dr. Soldat provided insight into two topics. The first was Low Input Sustainable Turf (Kentucky Bluegrass). This trial is very young with installation last fall. These grasses are evaluated for speed of establishment (percent coverage), color and a visual rating. There will be much more data and information as the trial matures.

Additionally, Dr. Soldat is working with Organic Lawn Control Options. Various products are being tested in comparison to Trimec as the industry standard. The organic products were applied on May 18th and again on June 22nd, whereas the Trimec was only applied on June 22nd. Dr. Soldat will have more results as the year continues.

The afternoon has evolved into a more golf oriented tour displaying many of the project being conducted at the O.J. Noer. The list of tour stops were many:

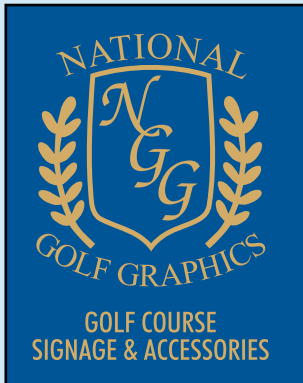
- Nitrogen Rate and Golf Foot Traffic Affects on Creeping Bentgrass Growth
- Biopesticides for the Control of Dollar Spot on Putting Greens
- Common Ground Initiative
- Iron Sulfate and Urea Interaction for Dollar Spot Control
- Iron Sulfate and Water Volume Interaction for Turf Quality
- Precision Disease Management for Dollar Spot (Smith-Kerns Model)

The WTA Summer Field Day would not be complete without the trade show. The location of the trade show was moved to a more central part of Field Day this year. The goal was to have everyone and everything closer together. Just like Field Day itself, the trade show was successful. As you continue throughout the year, please take time to support the vendors (listed on right), that support the WTA and the

University of Wisconsin – Madison by participating in Field Day and the research that goes on at the O.J. Noer Turfgrass Facility.

If you were unable to attend this year's event, you missed another great day. Summer Field Day is a chance for you to see the research being conducted. The Winter EXPO, is where the some of the final research results are shared and discussed. Mark your calendar now, January 8, 2019, at the Pyle Center in Madison to hear more about the research being done by the University of Wisconsin-Madison staff. ■

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History of the UW-Madison Turf and Grounds Management Program in the Department of Soil Science

By Doug Soldat, Ph.D. Soil Science, University of Wisconsin - Madison

Note: The text that follows was mostly authored by Dr. Wayne Kussow prior to his retirement in 2005. It has been edited and updated by Doug Soldat to reflect recent developments in the turf program at UW-Madison.

The UW-Madison Turf and Grounds Management Program grew out of a 1959 conversation between Dr. O.J. Noer and Dr. L.E. Engelbert, then chair of the Department of Soil Science. "O.J.", as everyone knew him, completed his B.S. degree in the Department of Soil Science in 1912 and his Ph.D. in 1926 with Emil Truog. The subject of his thesis research was the fertilizing value of activated sewage sludge, "Milorganite," which the city of Milwaukee had just begun to produce. By the time of this meeting, O.J. was nearing the end of his career as an agronomist in the Milorganite Division of the Milwaukee Sewage Commission. In this position, he became nationally renowned as an expert in golf turf management. He had criss-crossed the country many times by car and train, assisting golf course superintendents with their turf management problems and, with their collaboration, conducted some of the earliest research on the nutritional needs of turfgrass and established a soil testing service for the nation's golf courses. Through these travels and contacts, O.J. became convinced that the advancement of golf course management resided in superintendents being formally trained at the collegiate level. This was the message he delivered in the 1959 meeting. He was

also quite adamant that such training should be done at his alma mater and in the Department of Soil Science, where, from his experience, he knew that the training would be rigorous and comprehensive. His presentation was convincing and Dr. Engelbert called into the meeting Dr. James Love, whom Dr. Engelbert felt was in the best position in the department to establish the program that O.J. was promoting.

Dr. Love accepted the challenge placed before him. After consulting with O.J. and others, he developed a curriculum in turfgrass management, drawing from existing courses and expertise in numerous departments in the College of Agricultural and Life Sciences and elsewhere on the campus. The Turf and Grounds Management Program (actually a specialization in Soil Science), became a formal program in 1961. The first two students graduated in 1964. Dr. Love continued to guide the program and advise all of the students in the program until his retirement in 1986. He effectively used Soil Science 101 (now 301) as a forum in which to advertise the program and recruited graduate students to conduct some of the earliest research in the U.S. on turfgrass management. During his 23 years guiding the turfgrass program, Dr. Love advised 105 graduates of the program. He had the distinct pleasure of watching many of them become superintendents on some very prominent golf courses within the state and around the country, and assume leadership roles in their state and national professional organizations.

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With Dr. Love's retirement in 1986, the department sought out another faculty member to assume responsibility for the Turf and Grounds Management Program. Dr. Wayne Kussow, who had transferred full-time into the department in 1983 from a part-time position in the International Agricultural Programs office and had conducted some research on turfgrass, was the logical choice. He assumed responsibility for the program with the stipulation that henceforth all his research and outreach efforts would focus on turfgrass. One of his earliest thrusts was to establish the Badger Turf and Grounds Club. The Badger Turf and Grounds Club has played an important role in the education of students. It serves as a forum for outside speakers to enlighten them on subjects vital to them but not available within the university. The club promotes and subsidizes student attendance at state, regional and national professional conferences. The club also performs an annual public service project, such as renovating the turf areas around the capital square, sodding around apartments constructed by Habitat for Humanity, and providing the UW grounds maintenance staff with soil analyses and maintenance recommendations for turf areas across the campus. Dr. Kussow guided 111 students through the program from 1986 until his retirement in 2005. In the 1990's, Dr. Kussow collaborated with faculty in Horticulture including Dr. Frank Rossi and Dr. John Stier on the turf and grounds management specialization in that department. The specialization has since been dropped from the Horticulture undergraduate curriculum and once again resides only in Soil Science.

The turf and grounds management graduates constitute a group of alumni who are fiercely loyal to the Department, CALS, and the University. It is that loyalty that guaranteed success in the effort of the Wisconsin Turfgrass Association to raise \$250,000 for construction of the O. J. Noer Turfgrass Research and Education Facility over the period of 1989-91. In 1998, the Wisconsin Turfgrass Association decided to focus its efforts on the creation of Distinguished Fellowships for graduate students whose research was on problems of concern to the turf industry. They set as their goal, the creation of four such fellowships, which signified a commitment of raising one million dollars. The first fellowship, named in honor of Dr. Kussow, was fully funded in

2001. The fellowship's first recipient was Doug Soldat, who earned an MS under Dr. Kussow in 2003, and then went on to earn a Ph.D. at Cornell University before coming home to Wisconsin to guide the turf and grounds program in Soil Science from 2006 to the present.

Clearly, the turf program at UW-Madison has experienced many changes over the years, and will continue to adapt into the future. For example, in response to declining enrollment, we are adding a new option for a turf and grounds management education. In addition to the four-year B.S. program, starting in 2019 students will be able to work towards a two-year certificate in Professional Turfgrass Management through the Farm and Industry Short Course (FISC). FISC has been a part of UW-Madison for over 130 years, and provides practical, useful courses to those whose means and time are limited but want the knowledge to successfully conduct business in the agricultural realm.

The Professional Turfgrass Management certificate will rely on an excellent suite of existing courses in agribusiness accounting, human relations, pesticide safety, soil science, plant science, and others while the current turfgrass faculty will develop new classes for the certificate program on turfgrass management, turfgrass irrigation and drainage, turfgrass pest management, and turfgrass nutrient management. The program consists of two 8-week sessions, the first running from October – December, and the second from January-March. This will allow students to conduct extended internships, or work at a golf course or lawn care company during the primary growing season. While the new certificate still has many bureaucratic hurdles to jump internally at UW, we are confident and excited for the program to open its doors to the first class in Fall 2019. Future updates will be published as soon as details become available. ■

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Turf Management Mobile: A New Tool for Professional Turfgrass Managers

By Paul Koch, Ph.D. and Kurt Hockemeyer, Department of Plant Pathology, University of Wisconsin – Madison

Controlling pests is one of the most important aspects of being a successful professional turfgrass manager. It doesn't really matter the type of pest or what sector of the turf industry you're in either: an anthracnose outbreak can cost a superintendent his or her job just as easily as a crabgrass outbreak can for a lawn care or sports turf manager. Proper pest control includes optimizing plant and soil health, managing abiotic stresses such as traffic and soil moisture, and knowing the biology of the pests in questions. But even when all those factors are optimized, pests can still become problematic. It's in these instances when proper pest control also includes selecting the right pesticide.

'So what should I spray?' It's probably the most common question we get, and most turfgrass extension specialists will probably say the same thing. And it's easy to see why, selecting the right product is crucial for effective pest control. Select the wrong product and not only have you not controlled the problem, you've wasted money, product, and time associated with having to make a second (and hopefully correct this time) product selection. But selecting the right product isn't as simple as it seems. There are dozens of disease, insect, and weed pests that can occur on turfgrass in the Midwest, and for each pest there are sometimes 10 or more pesticides that are labeled for that particular pest. To make things more confusing, just because a product is labeled for a particular pest doesn't necessarily mean it's terribly effective against that particular pest.

So where do you turn for help? In our humble opinion, your local extension specialists are a great resource. We test hundreds of product combinations a year for all of our major turf diseases in Wisconsin, and we post all of our results on our Fungicide Research Results page (<https://tdl.wisc.edu/results/>). Your local sales and technical representatives are also a great resource. They are often deeply knowledgeable about the products and how they perform, and the good ones are well aware that if they mischaracterize a product's efficacy to make a sale for today, they will likely lose a customer for tomorrow. Many great print and online pesticide recommendation resources also exist. In my opinion the best weed control publication is 'Turfgrass Weed Control for Professionals' from Dr. Aaron Patton at Purdue University and the best disease control publication is 'Chemical Control of Turfgrass Diseases' from Dr. Paul Vincelli at the University of Kentucky and Dr. Bruce Clarke at Rutgers University.

However, the University of Wisconsin turf team felt there was an opportunity to provide an additional online resource to professional turfgrass managers. One that brought all the pests groups together on one site, that focused on university product research, and that provided results in a clear, simple format that would translate easily to mobile devices. This led to the development of Turf Management Mobile (<https://turfpests.wisc.edu/>), a site developed by the UW turf program in collaboration with 3 other universities that was launched in May of 2018 (Figure 1).

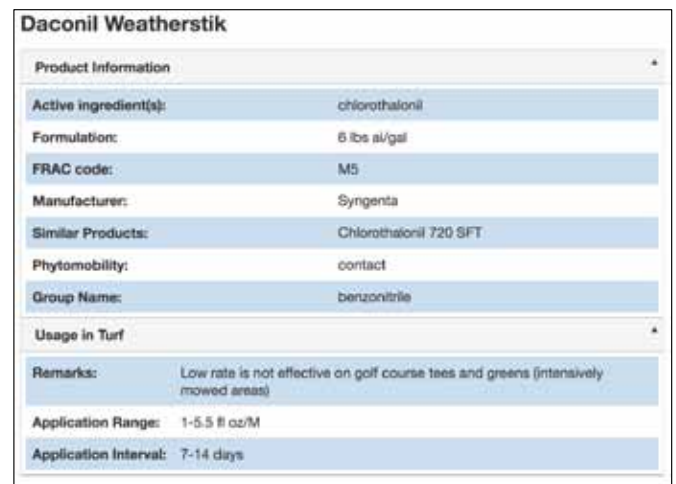
How to use the site

As the name suggests, the site design is focused on a format that would easily translate to a mobile format but also focus on results, not pictures. The format was borrowed from the site Pest Management Mobile, which was developed by UW Agronomy professor Mark Renz

Figure 1: The homepage of Turf Management Mobile, a turf pesticide database for professional turfgrass managers sponsored by the Wisconsin Golf Course Superintendents Association and the Wisconsin Turfgrass Association.



Figure 2. Information on dozens of pesticides can be obtained by using the search option near the top of the Turf Management Mobile homepage.



for use in various agricultural crops. Upon arriving at the homepage the user can search for a particular product by typing in the name of the product in the search bar. Upon selection of the product a whole host of new information about that particular product becomes available, including the active ingredient(s), product phytomobility, the FRAC/IRAC/HRAC code, recommended rates and intervals, any notes of interest, etc. (Figure 2).

From the home page the user can also search for product efficacy ratings by selecting on a pest group (diseases, insects, weeds) and then selecting on the particular pest or pests of interest. For example, to see the efficacy ratings for Gray/Speckled Snow Mold you would click on that disease and then click 'Submit' at the top of the page and the product efficacy ratings in order from highest to lowest will appear

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(Figure 3). The products are rated on a 1 to 4 scale, with 4 given to the most effective products and 1 given to the least effective products. For fungicides in particular the individual ratings can be interpreted as:

- 4 = Consistently excellent control under high disease pressure
- 3 = Consistently excellent control, though some breakdown under high disease pressure
- 2 = Fair to good control under most conditions, periodic breakdowns in disease control
- 1 = Control is inconsistent between experiments but performs well in some instances
- N = No efficacy
- L = Limited published data on effectiveness

Herbicide efficacy ratings are similar but defined in a slightly different manner:

- 4-Excellent, greater than 90% prevention or control
- 3-Good, 75-90% prevention or control
- 2-Fair, 50-75% prevention or control
- 1-Poor, less than 50% prevention or control

No insecticide ratings are provided on Turf Management Mobile because that information was not readily available after talking with numerous turf entomologists.

In addition to searching for product efficacy against one pest, users can search for the highest rated products against multiple diseases. For example, say you want to know what products have the highest combined ratings against BOTH dollar spot and anthracnose. You would simply click both dollar spot and anthracnose on the 'Disease' page, then hit 'Submit', and the product ratings provided will sum up the ratings for both diseases and rank them in order (Figure 4). Product ratings for up to 3 pests can be searched for at the same time.

How was the product rating data collected?

Dr. Aaron Patton already provides annual herbicide efficacy ratings in his 'Turfgrass Weed Management for Professionals' publication and Dr. Paul Vincelli and Dr. Bruce Clarke already provide annual fungicide efficacy ratings in their 'Chemical Control of Turfgrass Diseases' publication. The herbicide and fungicide efficacy ratings on Turf Management Mobile come directly from Dr. Patton and Drs. Vincelli and Clarke, respectively. In essence, Turf Management Mobile can be thought of as a searchable database of the ratings provided in those two publications. The only exception is the Gray/Speckled Snow Mold ratings, which are based off of our research at Wisconsin.

Where did Drs Patton, Vincelli, and Clarke obtain their ratings? Each rating in their publications are based off of numerous independent university research trials. I know personally that for a product to be rated in 'Chemical Control of Turfgrass Diseases' Dr. Clarke requires approximately 6 to 8 independent university studies. This is a high bar to pass, and ensures that products are vigorously tested prior to being included in Turf Management Mobile.

Alright Paul, what are the drawbacks?

I'll be the first to admit that Turf Management Mobile isn't perfect, and there are a few issues users need to be aware of when using the site:

- Product efficacy ratings are not designed to identify the 'best' product against a certain pest, but rather to identify the products that perform most effectively within their recommended rates and intervals. For example, Torque and Emerald fungicides both have

Figure 3. Product efficacy ratings were done in collaboration with Dr. Aaron Patton at Purdue University, Dr. Paul Vincelli at the University of Kentucky, and Dr. Bruce Clarke at Rutgers University.

Name	Rating	MOA Code	Application Rate	Application Interval
Concert + Banner MAXX	4			
Gray/Speckled Snow Mold	4		8.3 fl oz/M + 8 fl oz/M	One or two applications prior to snow cover
Concert + Turficide	4			
Gray/Speckled Snow Mold	4		8.3 fl oz/M + 8 fl oz/M	One or two applications prior to snow cover
Enclave	4	M5, 2, 1, 3		
Gray/Speckled Snow Mold	4		8 fl oz/M	One or two applications prior to snow cover
Fame T	4	11, 3		
Gray/Speckled Snow Mold	4		0.45-0.9 fl oz/M	One or two applications prior to snow cover
Insignia SC + Trinity + Turficide	4			
Gray/Speckled Snow Mold	4		0.7 fl oz/M + 1 fl oz/M + 8 fl oz/M	One or two applications prior to snow cover
Insignia SC + Trinity + Turficide + Daconil Ultrex	4			
Gray/Speckled Snow Mold	4		0.7 fl oz/M + 1 fl oz/M + 8 fl oz/M + 5 oz/M	One or two applications prior to snow cover
Inatrata	4	M5, 3, 12		

Figure 4. Product efficacy ratings for up to 3 diseases can be searched for at the same time. Here we searched for the product ratings for both dollar spot AND anthracnose.

Name	Rating	MOA Code	Application Rate	Application Interval
Concert	7	3, M5		
Anthracnose	3		4.5-8.3 fl oz/M	14-28 days
Dollar Spot	4		1.5-3 fl oz/M	14-28 days
Enclave	7	M5, 2, 1, 3		
Anthracnose	3.5		3-4 fl oz/M	14-28 days
Dollar Spot	3.5		3-4 fl oz/M	14-28 days
Mirage	7	3		
Anthracnose	3		1-2 fl oz/M	14-28 days
Dollar Spot	4		1-2 fl oz/M	14-28 days
Tekken	7	7, 3		
Anthracnose	3		3 fl oz/M	14-28 days
Dollar Spot	4		3 fl oz/M	14-28 days
Torque	7	3		
Anthracnose	3		0.6-1.1 fl oz/M	14-28 days
Dollar Spot	4		0.6-1.1 fl oz/M	14-28 days

Continued on page 9

a rating of 4 against dollar spot. Torque is a good fungicide that has many different uses, but no one is going to claim that Torque is as effective at controlling dollar spot as Emerald. However, what this rating shows is that when each product is used as recommended (Emerald at a 21 to 28-day interval, Torque at a 14-day interval), they can both provide highly effective control of dollar spot.

- Ratings assume that there is no fungicide or herbicide resistance present in the pest population. Since resistance can vary so much from site to site it would be impossible to account for the possibility of resistance, which is why 3336F (thiophanate-methyl) is rated a 4 for dollar spot control despite widespread dollar spot resistance present in Wisconsin and elsewhere. Notes regarding potential resistance concerns are included in the 'Remarks' section for each product.
- Not all turf pesticides are on this site, and some products are on the site but don't have ratings for every pest. This is not because we're choosing favorite products or companies, but rather because multiple years of university testing is required before a product can be included. This means that new products oftentimes won't be on the site until the required testing can occur. It also means that products, including many generic products, that aren't tested by their manufacturers in university testing trials aren't included in the site.
- Insecticide efficacy ratings aren't included on Turf Management Mobile. As mentioned before, we couldn't find any information on insecticide ratings present in the literature and no turf entomologist was willing to try and develop that kind of information...which admittedly doing from scratch would take a very long time. What Turf Management Mobile includes instead is a list of all products labeled for a particular insect pest in alphabetical order.
- No information on pest biology or cultural pest control strategies is included in Turf Management Mobile. This is obviously a critical aspect of integrated pest management, but is not a focus of this particular site. Other publications and websites contain a host of information on these topics and should be used in concert with Turf Management Mobile.

Acknowledgements

The development of this site was a true team effort across multiple universities and encompassed multiple industry partners. UW Agronomy professor Mark Renz provided us the initial formatting for the site, based off of his Pest Management Mobile site, and allowed us to use his 'infrastructure' in creating our site. UW turf professors Doug Soldat and Chris Williamson provided insight on the overall site design and the herbicide and insecticide sections in particular. We have already mentioned our collaboration with Drs. Patton, Vincelli, and Clarke on this project but their input on other features of the site were important in improving the final version. UW web developer Bret Huisenga did the web development for the site and was crucial in accomplishing this project in a timely manner.

Lastly, this site was not free to develop, and we greatly appreciate the financial support provided by the Wisconsin Turfgrass Association and the Wisconsin Golf Course Superintendents Association. This particular project serves as another great example of how the UW and the Wisconsin turfgrass industry can work together to provide tools to aid professional turfgrass managers, and I look forward to working with both the WTA and the WGCSA on future projects. ■

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CALENDAR OF EVENTS

2018

Sept. 17th	WeeOne – Pine Hills Country Club	Sheboygan, WI
October 1st	WTA Golf Outing – Kenosha Country Club	Kenosha, WI
October 19th	WSTMA Fall Meeting – Lambeau Field.....	Green Bay, WI

2019

January 8	WTA Winter EXPO – Pyle Center	Madison, WI
Jan 15 – 17	Northern Green – Minneapolis Convention Center.....	Minneapolis, MN
Jan 22 – 25	STMA Conference – Phoenix Convention Center.....	Phoenix, AZ
Jan 30-Feb 1	iLandscape Show – Renaissance Convention Center.....	Schaumburg, IL
Feb 2 – 7	Golf Industry Show – San Diego Convention Center.....	San Diego, CA
Feb 8 – 10	Garden EXPO – Alliant Energy Center	Madison, WI
Feb 18 – 22	TPI Conference – The Westin	Charlotte, NC

WTA Members -- If you have an important date you'd like to share with other members, Call 608-845-6536 or email audra.anderson@wisc.edu to include it in the next calendar.

Contact Telephone Numbers

GCSAA	Golf Course Superintendents Association.....	800-472-7878
Great Lakes	Great Lakes School of Turfgrass Science Online.....	763-767-3518
iLandscape	the Illinois + Wisconsin Landscape Show	630-472-2851
NGLGCSA	Northern Great Lakes Golf Course Superintendents Assoc.....	906-424-4176
Northern	Northern Green	651-633-4987
PAT	Pesticide Applicator Training (Turf and Landscape 3.0).....	608-262-7588
STMA	Sports Turf Managers Association Conference	800-323-3875
TPI	Turf Producers International	800-405-8873
WDATCP	Pesticide Certification & Licensing.....	608-224-4548
Wee One	Wee One Foundation Golf Outing	630-457-7276
WGCSA	Wisconsin Golf Course Superintendents Association	920-643-4888
WGIF	Wisconsin Green Industry Federation	414-529-4705
WPT	WPT Garden Expo.....	608-262-5256
WSPA	Wisconsin Sod Producers Association	262-895-6820
WSTMA	Wisconsin Sports Turf Managers Association	608-792-9264
WTA	Wisconsin Turfgrass Association	608-845-6536

Wisconsin Turfgrass Association
2018 Golf Outing Fundraiser

Benefitting the
**Wisconsin Turfgrass Research
 Sustainability Fund**



KENOSHA COUNTRY CLUB – Monday, October 1st 2018

LIMITED TO THE FIRST 120 PLAYERS

Monday, October 1st, 2018
 500 13th Ave
 Kenosha, WI 53141
 (262) 552-8141

10:30 - 12:15 Registration
 11:00 - 12:15 Range
 11:00 - 12:15 Lunch
 12:30 4-person Scramble, Shotgun Start
 After golf Hors d'Oeuvres, door prizes & golf awards
Cash Bar, NO ATM on Site

Your **\$150 registration fee** will include golf, cart, practice range, lunch, door prizes, golf awards and hors d'oeuvres after golf. If you have questions, contact Audra at 608-845-6536 or audra.anderson@wisc.edu. Come out and play the newly renovated Kenosha Country Club. Let us show long-time supporter of the WTA, Paul Bastron, that we are grateful to him and his board of directors for allowing us to play this impressive course.

Kenosha Country Club: With scenic beauty and an understated elegance, our timeless Donald Ross designed, 18-hole championship golf course is a sight to behold. Tree-lined fairways, rolling hills and the natural beauty of the winding Pike River make our course special and unlike any other. Playable for all skill levels, though well-positioned bunkers and hazards combined with elevated and undulating greens test even the most accomplished golfers. Endlessly interesting and challenging, we keep our course true to the original Donald Ross design, which is often rated as one of the top ten courses in Wisconsin.

REGISTRATION FORM – WTA Golf Outing Fundraiser

Name: _____ Phone: () _____
 Name: _____ Email: _____
 Name: _____
 Name: _____

of People Attending x \$150 per person = _____

Tee Sponsorship available

Optional Tee Sign Golf Hole Sponsorship x \$125 = _____

Name To Be Printed on Tee Sign --- _____

- Please make check payable to WTA and return to 2502 Highway M / Verona, WI / 53593
- Or pay and register online www.wisconsinturfgrassassociation.org
- Refer questions about the outing to Audra at 608-845-6536, or audra.anderson@wisc.edu
- Registration deadline is Tuesday, September 27th, 2018.
- You may register by yourself or as a foursome.

