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found Ohio Lawns

fall 2018 / www.ohiolawnca.org

OLCANNEWS

IT PAYS TO BE GREEN

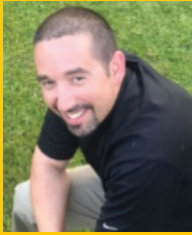


MARK YOUR CALENDAR!

GRATEFUL EMBRACE

On November 10, OLCA will host Grateful Embrace. Volunteers can sign up to partake in this annual community service of beautifying the grounds of the Dayton National Cemetery in Dayton and the Western Reserve Cemetery in Rittman. Sponsors include the Ohio Turfgrass Foundation and the Ohio Nursery & Landscape Association. This event is our industry's way of giving back to those who gave all. You can register online by visiting the OLCA website at www.OhioLawnCare.org or contact OLCA at lori@bennett-management-llc.com. We hope you can participate.

A MESSAGE from your President, Aaron Bucci, Advanced Turf Solutions



Fall has always been my favorite season but the years I've spent in lawn care have given me an even deeper appreciation. As you all know, this is the time of the year when we have the best opportunity to get our turf back on track! 2018 has been especially challenging with the slow

exceptionally wet start in the spring, unrelenting disease pressure, and sporadic, but very damaging insect/grub issues found throughout our great state of Ohio. Have no fear, fall is here! During my time as a lawn care technician, I fondly remember the relief I felt when October came. I was able to effectively control broadleaf weeds, the turf looked great, and best of all ... my lawn care customers finally left me alone, so I could treat their lawns in peace!

Although there are challenges, we are certainly fortunate to be a part of such an engaged and vibrant industry. This is never more evident than at our Lawn Care Educational Seminars in Wooster and Columbus. I am proud that we are able to offer these programs as one of the many valuable benefits offered to our members. This has always been such an important function due to the quality of programming, hands on opportunity, and caliber of the presenters at both events. This is apparent by the increasing attendance that we've seen at both programs in June and August. Thank you all that were able to attend as well as to all of the speakers and OLCA personnel that help to make these possible!

We are only a few weeks away from our annual Grateful Embrace events on November 10th in Dayton at the Dayton National Cemetery and Rittman at The Ohio Western Reserve Cemetery. This is a great opportunity to give back to our veterans that have sacrificed so much for our freedom. It is a small-time commitment of only a few hours that is so well spent on such a noble cause. If you would like to participate please make sure to let the OLCA staff know, we would love to see you there!

Finally, we have scheduled our annual meeting on December 5th during the OTF conference in Columbus. This year we are excited to announce a new venue for the meeting! We have reserved a space at the Tap Room Brewing Company in downtown Columbus. This is a great opportunity to get updated on OLCA's past year's activity, network with your peers, and enjoy a complimentary lunch on us! Hopefully I'll see a lot of you there!

FROM YOUR Executive Director, Mark Bennett, CAE, IOM



We appreciate your continued support of the Ohio Lawn Care Association (OLCA) this year. We had strong attendance once again at OLCA's field days in Wooster and Columbus. As your season begins to slow, know that OLCA continues to strive to help you protect and grow your business.

The Grateful Embrace on Saturday, November 10 in Dayton and Rittman to help winterize the grounds of two veterans' cemeteries celebrated its 25th anniversary. Since 1994, OLCA, through its generous membership, has devoted countless volunteer hours and materials to the task of working on the hallowed grounds these cemeteries. This annual event on Veterans Day weekend, led by OLCA and sponsored by the Ohio Turfgrass Foundation, and the Ohio Nursery & Landscape Association, is a wonderful opportunity for the lawn care industry to give back to those who gave all.

OLCA will hold its annual meeting at the Ohio Turfgrass Foundation Conference & Show on December 5. This year's annual meeting will take on a different format as we'll be hosting a happy hour at Elevator Brewing Company Tap Room. Watch for additional information coming soon. This is your opportunity to have a pint on us and hear about what your industry's association has done in the past year to help strengthen your lawn care business.

OLCA membership renewals will be mailing soon. Be sure to renew your membership to take advantage of all of the great benefits OLCA has to offer. For just \$125 for the year, your entire company can join OLCA. The average OLCA member saves more than \$2,500 annually on its workers compensation premium. That's a more than \$20 return on investment for every dollar you spend on OLCA membership dues! Additionally, OLCA offers its members additional discounts on lead generation, plant/pest diagnostics and soil sample analysis. We also have a number of short videos from Ohio State's turf faculty speaking on subjects such as rust disease, effective use of fungicide, fertilizer programs, crabgrass control and more! Visit the website or call the office for additional information on any of these member benefits. Taking advantage of these benefits can significantly boost your company's bottom line.

OLCA continues to promote the legislative interests of its membership through its active participation in the Ohio Professional Applicators for Responsible Regulation (OPARR). This ensures your ability to effectively service your customers with the appropriate fertilizers and pesticides. I participate in quarterly OPARR Board meetings on behalf of OLCA. We not only discuss potential legislation which may affect fertilizer and pesticide applicators, but we invite members of the Ohio General Assembly to speak to the group building further relationships.

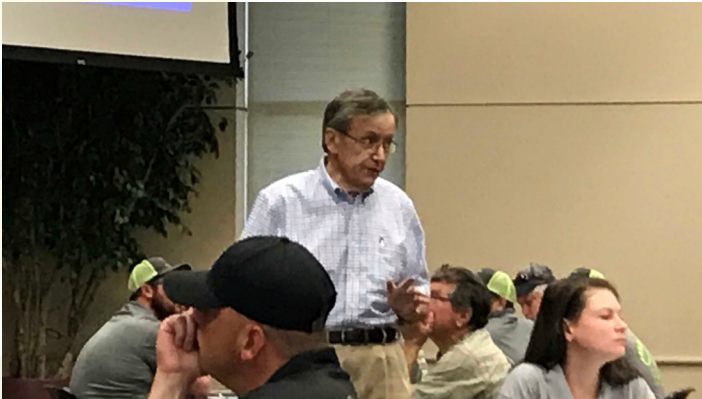
As always, feel free to contact me at 800-510-5296 or mark@bennett-management-llc.com with questions or concerns.

OLCA SUMMER SEMINARS WERE A SUCCESS!

OLCA held the 16th Annual Northeast Ohio Lawn Care Seminar on June 14 at The Ohio State University/OARDC The Arden Shisler Center in Wooster with over 100 attendees receiving 1.0 credit hour in Category 8; 2.5 credit hours in Core, 0.5 credit hour in Category 10D and 1.0 credit hour in Category 6A.

The 24th Annual Ohio Lawn Care Outdoor Summer Seminar took place on August 9 at The Ohio Turfgrass Foundation Research & Education Facility in Columbus with 193 attendees receiving 1.50 credit hours in Category 8; 2.0 credit hours of Core, 0.5 credit hours in Category 10D and 1.0 credit hour in Category 6A.

These events were sponsored by Turfware, Advanced Turf Solutions, Nufarm and Syngenta. Thank you for your continued support!



OHIO LAWN CARE TECHNICIAN OF THE YEAR AWARD

This award will convey and illustrate the mission statement of OLCA and serve the mission of the organization:

“providing resources to help grow your lawn care company, enhance the quality of the services you provide your clients, business tools and invaluable education to improve your bottom line, advocacy, research, and networking opportunities with others in your industry.”

Past Recipients include:

2017 – Jeremy Soeder
Brookside Lawn Services, Inc., Medina, OH

2016 – Bradley Wickersham
Grass Master, Canal Fulton, OH

2015 – Todd Hatcher
Leisure Lawn, West Carrollton, OH

2014 – Robert Conklin
TruGreen, Lexington, OH

2013 – Grant Birchfield
Ziehler Lawn & Tree Care, Centerville, OH

2012 – Matt Tyler
Grass Master, Inc., Canal Fulton, OH

2011 – Robert Sobe
Brookside Lawn Services, Inc., Medina, OH

2010 – Matt Kingrey
Ever-Green Turf and Landscaping, Troy, OH

2009 – Christopher Guerra
Highpoint Lawn Service, Stow, OH

OLCA represents nearly 300 professional lawn care companies throughout Ohio, and its mission is demonstrated every day by its members.

Applications will be accepted until November 16, 2018 and the winner will be announced by email prior to the Ohio Lawn Care Association Annual Meeting taking place on December 5.

To apply, you must be a member company of the association, and may only nominate one employee per company. Applicators may only be nominated by a company owner, manager or supervisor. Nominees must have proof of a state of Ohio license with a minimum of 2 years experience. Applications must be received in the OLCA office before November 16.

To submit your nomination, please complete and return the application on page 5. Online submissions are also available at www.OhioLawnCare.org or by calling 1-800-510-5296.

IT'S GOOD BUSINESS TO DO BUSINESS WITH OLCA SPONSORS

OLCA offers great annual sponsorship packages to supplier members who are interested in constant visibility while supporting Ohio's lawn care operators. See the Sponsorship Application in this newsletter for details on what each level of sponsorship includes. Members are encouraged to support the sponsors who support the organization. To become a 2019 sponsor, please complete and return the application on page 6.

OLCA THANKS THE FOLLOWING 2018 SPONSORS:

Turfware • Advanced Turf Solutions
Nufarm • Syngenta

CALENDAR OF EVENTS

- 11/10** A Grateful Embrace, Dayton National Cemetery and Ohio Western Reserve Cemetery in Rittman
- 11/16** Lawn Care Technician of the Year Award Deadline
- 12/5** Annual Meeting, the Tap Room, Columbus



**Ohio Lawn Care Association
Lawn Care Technician of the Year Nomination Form**

Mail your completed nomination form and required documentation by November 16, 2018 to:
OLCA Lawn Care Technician of the Year
500 West Wilson Bridge Road, Suite 125 • Worthington, OH 43085

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Rules and Regulations:

- Must be a member company of OLCA
- Must be recommended by company owner, manager or supervisor
- Can only win the award one time
- 1 employee submission per company
- Must have proof of State of Ohio License
- Minimum 2 years experience

This year's winner of the Lawn Care Technician of the Year award will receive a \$500 Visa Gift Card!

Nominated By:

Company Name, Person and Title _____

Name of Manager (if nominating self) _____

Company Address _____

Company Phone _____

Applicators Name, Years of Experience _____

Applicators License _____

Describe why you think this person deserves the honor and recognition from his/her peers as Ohio Lawn Care Technician of the Year?

(Leadership, Customer Relations, Knowledge of Job, Job Performance, Problem Solving)

Greatest Achievement?

Best Customer Comment:

Attach any customer letters if available.



Ohio Lawn Care Association 2019 Sponsorship Program

Company Name _____

Main Contact: Name _____

Gold Level Sponsorship - PRICE = \$1,299 (more than 25% savings)

Includes:

- Full Page Ad (black & white or color) in 2 newsletters (\$300 value)
- 5 minutes upfront face time with attendees at both field days and annual meeting to promote company and new products (\$100 value)
- Event Sponsor of both Field Days. Sponsorship includes logo placement on promotional materials, signage, handouts and equipment/product display space (\$600 value)
- Main Sponsor for podcast.
- Complimentary Registration to both Summer Seminars (\$80 value)
- Annual Meeting Sponsor – Includes table display space (\$125 value)
- Website logo and link to sponsor site (\$500 value)
- One-year Supplier Membership (\$150 value)

Silver Level Sponsorship - PRICE = \$999 (more than 30% savings)

Includes:

- Half Page Ad (black & white or color) in 2 newsletters (\$150 value)
- Event Sponsor of 2 Field Days. Sponsorship includes logo placement on promotional materials, signage, handouts, 5 minutes to talk about your product at lunch and equipment demonstration space (\$600 value)
- Complimentary Registration to 2 Summer Seminars (\$80 value)
- Annual Meeting Sponsors – Includes table display space (\$125 value)
- Website logo and link to sponsor site (\$500 value)
- One-year Supplier Membership (\$150 value)

Bronze Level Sponsorship - PRICE = \$650 (more than 40% savings)

Includes:

- Event Sponsor of 2 Field Days. Sponsorship includes logo placement on promotional materials, signage, handouts, 5 minutes to talk about your product at lunch and equipment demonstration space (\$600 value)
- Annual Meeting Sponsors – Includes table display space (\$125 value)
- Website logo and link to sponsor site (\$500 value)
- One-year Supplier Membership (\$150 value)

To confirm your participation as a 2019 OLCA sponsor, please check the appropriate box above and return to:

OLCA
500 W. Wilson Bridge Rd., Suite 125
Worthington, OH 43085
Phone: 800-510-5296
www.OhioLawnCare.org

PAYMENT:

Check (Make check payable to **OLCA**)

To pay by credit card, please visit www.OhioLawnCare.org and **Sign In** (located in the upper right corner). OLCA currently accepts the following credit cards: Discover, MasterCard and VISA. OLCA is unable to accept credit cards by phone, fax or by mail.

If you do not remember your Username or Password, use the [Reset Your Password](#) on the OLCA web site by entering the email address associated with your member record. Please contact the OLCA office at 800-510-5296 if you have any questions or have trouble logging in. We appreciate your support of the Ohio Lawn Care Association.

OFFICE USE ONLY

Rcvd. _____

Amt. _____

Ck # _____

Ackd. _____



**25th ANNIVERSARY
GRATEFUL EMBRACE
November 10, 2018
Dayton National Cemetery, Dayton, Ohio
The Ohio Western Reserve Cemetery, Rittman, Ohio**

We invite all lawn care and landscape professionals to join us on Saturday, November 10 at the Dayton National Cemetery in Dayton and/or Ohio Western Reserve Cemetery in Rittman for "A Grateful Embrace". Show your support to our soldiers and veterans by giving back to those who gave all. Please fill out the form below and email it to lori@bennett-management-llc.com by November 2.

Here is a brief summary of the day's events:

- Arrival and check in times for each event will be 7:45 am
- Donuts and coffee will be served and you will be assigned your area.
- We will have a short ceremony at 8:30 am at each venue capturing the spirit and humbleness of the event that includes guest speakers, Honor Guard and Benediction.
- Work commences at the conclusion of the ceremony
- Most of the materials (fertilizer) will be provided through the generous donations of our industry suppliers.

However, we are asking that those who can donate 5 bags of fertilizer to the cause.

- You'll need to bring spreaders, blowers and all the manpower you can muster to help us get 160 acres of turf fertilized on that day.
- Lunch is also provided!

Don't miss out on this unique opportunity to honor those men, women and their families, both living and deceased, who provided the ultimate sacrifice that we might remain a free nation.

We promise that after participating in the Grateful Embrace, you will never be the same again – just ask anyone that has participated in this event!

NAME: _____ COMPANY: _____

ADDRESS: _____

CITY, STATE ZIP: _____

PHONE: _____ EMAIL: _____

LOCATION: ___DAYTON ___RITTMAN NUMBER OF PEOPLE ATTENDING: _____

EQUIPMENT YOU CAN BRING:

(Spreaders, Blowers, Ride-ons, Brooms, etc.)

ITEMS TO DONATE: _____

DISEASE UPDATE FOR OHIO LAWNS – 2018

By J. W. Rimelspach, T. E. Hicks, Dept. of Plant Pathology, The Ohio State University

It was another interesting year for the lawn industry in Ohio. Due to the weather patterns experienced this growing season, specific lawn diseases were prevalent and severe in many parts of the state. As discussed in most plant pathology classes often the key factor of the occurrence of a disease outbreak is the environment i.e. “the weather”. The weather has tremendous influence on both the crop we are trying to grow (turf) and on the pathogens that cause diseases in turf (usually fungi in lawns). The following is a recap of the patterns from this year.

This spring was cold and wet. In some ways there was not much of a spring since cool wet conditions gave way to a sudden hot weather in early June. Temperatures were variable in early summer with most of Ohio experiencing 5-8 days of hot and high humidity, followed by several days of a cool down. This was followed by late summer running extremely hot and humid all the way into mid-October. Rainfall for most of central and southern Ohio was wetter than normal this summer and continued into October. Dry conditions were present in parts of northern and north-central Ohio with increased rain in late summer and fall. Do not forget about the importance of humidity, especially night time humidity. This year the night humidity was especially high in late August and into September and early October. So what turfgrass diseases developed from these patterns?

Leaf Spots (the common type such as *Bipolaris*, *Drechslera* and *Curvularia*) – With wet conditions these can be prevalent and they were this year starting in spring and continuing into the fall. Many grasses were infected including; Kentucky bluegrass, perennial ryegrass, tall fescues, fine fescues and creeping bentgrass. Remember that there can be many leaf spot diseases under both cool and high temperatures.

Dollar Spot – As last year, 2018 was one of the worst years for dollar spot in lawns ever. The disease was especially severe in early summer and into the late summer in many areas. Long periods of leaf wetness and high humidity were ideal for the growth and expansion of the fungal pathogen. Many turf managers struggled to get the disease under control. The disease was primarily severe on Kentucky bluegrass but noted on other cool-season grasses this year.

Brown Patch – was variable and spotty in the state. It was present and in some cases present with other diseases such as Pythium, leaf spot and Gray Leaf Spot.

Pythium – Was a problem in sites that were extremely wet with high temperatures (90°F days and \geq 70°F nights). Over irrigated lawns and juvenile turf were especially susceptible to damage.

Gray Leaf Spot – This disease is usually considered only a problem on perennial ryegrass. Due to the hot conditions in August and September and very humid conditions at night this disease exploded! More samples of this disease were received this year in the OSU Plant Disease Clinic than any year. High numbers of samples were from golf course fairways, golf course roughs, athletic fields especially high school football fields and municipal soccer complexes and for the first time - many home lawn samples of Gray Leaf Spot.

This was the first year Gray Leaf Spot was confirmed on tall fescue in Ohio at the OSU Plant and Pest Diagnostic Clinic. Last year it was reported on tall fescue in Ohio by other labs. It should be noted that there were many cases of common leaf spots on tall fescue during the summer but if you see something unusual in tall fescue lawns late in the summer Gray Leaf Spot should be considered as a possible problem. Gray Leaf Spot on tall fescue is different from the damage seen on perennial ryegrass. On tall fescue the disease appears more similar to common leaf spots causing a distinct spotting on the foliage and a thinning of the turf.

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In the case of perennial ryegrass the plants are often killed and the damage is much more devastating.

This year for the first time Gray Leaf Spot was reported on fine fescue in New Jersey.

Rust – Less than normal! Why? Since there were high rainfall and rapidly growing turf in late summer and the fall the amount of rust was low compared to most years.



Gary Leaf Spot damage on football field 2018. (Photo – D. Marison)



Gary Leaf Spot (tall fescue) in central Ohio lawn 2018. (Photo – J. Rimelspach)



Dollar spot – mycelium in early morning 2018. (Photo – D. Garling)



Gary Leaf Spot (perennial ryegrass) in central Ohio lawn 2018. (Photo – J. Rimelspach)



Gary Leaf Spot (tall fescue) in central Ohio lawn 2018. (Photo – J. Rimelspach)

KYLLINGA – A “NEW” WEED FOUND IN OHIO LAWNS

By J. W. Rimelspach, T. E. Hicks, Dept. of Plant Pathology, The Ohio State University

This summer we received samples from 2 locations in Ohio of Kyllinga. One was from the Ohio Turfgrass Foundation Facility here in Columbus and the other was a home lawn in Woodville, Ohio. This is a sedge and has many of the characteristics of other sedges found in Ohio lawns. It should be mentioned that the weather patterns this year, in much of the state, was ideal for sedges to grow and be a major problem in many lawns.

Kyllinga is a perennial sedge from rhizomes that is capable of forming dense infestations. There is green kyllinga and false green kyllinga and are very similar in appearance, and both are referred to as green kyllinga. Both species are native to Asia and are spreading rapidly in turfgrasses in the southern United States. Both are perennial species with well-developed rhizomes. Kyllingas tend to have a finer leaf texture and are shorter growing than other sedges. They thrive under close mowing situations (inch or less).

Green kyllinga is primarily a weed of turfgrass and lawns that is usually found in damp or wet areas. Leaves do not have ligules or auricles and have a distinct ridge along the midvein, but are nevertheless often mistaken for grasses.

Leaves: Dark green in color and have a distinctly shiny appearance. Leaves have a distinct ridge along the midvein. Leaves are without hairs (glabrous) and no auricles or ligules are present. The leaves of green kyllinga taper gradually to a sharp point.

Stems: Three-sided and triangular in cross-section. Stems may reach 6 inches in height and produce a terminal seed head.

Roots: A dense system of rhizomes that are red to purple in color.

Flowers: Round or oblong in outline, produced at the ends of the triangular stem.

Here Kyllinga is growing in creeping bentgrass at fairway height.



For chemical management refer to the North Carolina State University or University of Tennessee fact sheets: (see the sites below):

<https://content.ces.ncsu.edu/green-kyllinga>

<http://www.tennesseeturfgrassweeds.org/Lists/Fact%20Sheets/Attachments/23/W260updated2015.pdf>

LANDSCAPE PLANT DISEASES

By Jim Chatfield, Associate Professor and Extension Specialist, Ohio State University Extension, Department of Horticulture and Crop Sciences, Department of Plant Pathology

As Alex Cusnow said: "The lawn is the canvas upon which the rest of the landscape is painted." So, turfgrass matters, but for the sake of this article, let's draw on those other elements: ornamental plants. Let us start from the low down with something that will probably rear its ugly head next Spring following this wet year.

Volutella Blight of Pachysandra

Our customers' pachysandra looks terrible this Spring. "Volutella blight is rampant this year." "What to do? Should we just get rid of the plantings?" These calls are common in Extension offices this year. It is true, it is easy to find Volutella fungal leaf blight and stem canker (*Volutella pachysandricola*) in pachysandra plantings this spring, though it is probable that the disease has been present in many plantings for years.

Symptoms of Volutella blight include tan circular, target-like spots on leaves which brown and die as the disease develops. On stems and stolons grayish water-soaked lesions turn black and then tissue shrivels. Many pachysandra plantings have some Volutella blight, but when large patches of the planting die, pachysandra may turn from a horticultural asset to a liability.

The problem is that the prescribed cultural solutions to the problem run counter to horticultural goals and maintenance practicalities. Common recommendations include: thin the planting, avoid overhead irrigation, and remove diseased and dead plant debris.

Good luck with all that since a dense planting is the point of a pachysandra bed – it often takes years to get there. Above-average cosmic irrigation – rain – is a main factor in the enhanced blight to begin with, and removing dead and dying plant tissue is easier said than done.

So, indeed what to do? Here is one approach that has worked for many over the years. If the problem is severe, mow the planting down to a modest height such that there will be improved air movement in the "planting in order to enhance drying conditions. Rake out and remove as much of the diseased and dead tissue as possible (the fungus is a good saprophyte as well as an opportunistic pathogen).

Then, if you and the customer are amenable, use of labeled fungicides, applied according to label directions, applied

several times at two week intervals to protect newly emerging growth will hopefully keep the disease down to a dull roar.

Check labels of products containing mancozeb, chlorothalonil, thiophanate-methyl, etc., to see if they may be applied. Remember, labels are historical documents and the actual material you use is your legal guide, not what you remember how a particular product was labeled in the past.

Cladosporium Blotch of Peony

Here is something to do now, before harder frosts arrive. Cultivate your own garden, said Voltaire at the end of *Candide*. Looking homeward, I note that peony measles, first seen in mid-July has continued to develop. Measles, or red spot or leaf blotch or *Cladosporium* leaf blotch disease are alternative names for this fungal disease. It is caused by, you guessed it, *Cladosporium paeoniae* or, who knew, with its new moniker, *Dichocladosporium chlorocephalum*.

On the upper leaf surface, reddish and brownish "measles"-like spots develop earlier in summer, now coalescing into purple blotches. I noticed this week a different symptom on the lower leaf surfaces, described quite aptly by Nancy Pataky of the University of Illinois as "dull chestnut brown" in color.

Cladosporium blotch truly starts to look unsightly more and more unsightly and worsens as the growing season wanes. The fungus overwinters on dead stems and foliage, which is a real hint for control. Sanitation, which OSU Extension Educator Tom De Haas constantly reminds us is a crucial key to plant disease management – certainly is the key for Cladosporium blotch control. Horticulturist, purge, not thyself, but peony debris – in fall or early next spring.

The good news is that peony measles is not a serious health problem for this lovely plant. So – sanitize. Or if you cannot bear to ever look at measles again, get more modern peony varieties or start a preventive fungicide program next spring.

Scab on Crabapple

As a committed crabarian, I cringe along with everyone when driving into a town or walking along a street and seeing the barren, defoliated canopies of certain crabapples this summer and now into the fall. Out, Out, darn, scab (apologies to W.S.).

Yet, it need not be this way. There is a salve for scab, a cure for crabs.

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It is the time-proven solution not of fungicides to prevent springtime and summer scab infections by the *Venturia inaequalis* fungus, but the more fundamental preventive strategy of host resistance.

Yes, the Plant Disease Triangle rears its beautiful head. Resistant varieties (more aptly put, resistant taxa) are the answer. Check these out for our Ohio Crablandia trials at: <http://agmr.osu.edu/Chatfield>.

Do these trials stand forever? Of course not. Nature is forever changing, 24/7/365 and on and on. Thus 'Prairifire' crabapple, demonstrating outstanding resistance for decades, was co-opted by a mutated *V. inaequalis* strain in the past few decades. Check this out at: Beckerman, J, Chatfield, J., and Draper, E. 2009. A 33-year evaluation of resistance and pathogenicity in the apple scab-crabapple pathosystem. Hortscience 44(3), 1-10.

Currently 'Prairifire' in Ohio is by no means highly susceptible to scab; my crabarian compatriot Erik Draper and I now rate it to have "moderate" scab incidence in our Crablandia plot. But I reject the statement I heard at a program recently that "it's just a matter of time" before all the crabapples will become scab-dogs.

Not so. Different crabapples have different types of resistance genes. Not to mention that scab does not kill like a disease such as rose rosette virus on roses. All diseases are different. All of Nature is flux. Enjoy the ride and continue to enjoy crabapples, though not just any crabapple. Don't pick those scabs!

Remember the Roots!

Though customers may not think of roots since they are not evident, but roots are all-important to plant health. Add organic matter to beds to develop better soil structure. Remember that dense beds, such as burning-bush euonymus often develop massive entwined fibrous root systems over time that can result in the entire hedge being "pot-bound" in a sense, with more roots than soil, with water uptake affected.

And remember your history. One of the most devastating effects for woody shrubs that I have seen occurred in the wet-dry seasons of 2001-2002 and 2011-2012. The rhizosphere of roots, microorganisms and soil factors is a zone of constant interaction. In a wet year pathogens such as the common root and crown rotting pathogen *Phytophthora cinnamomi* thrive and kill many roots.

If this is followed by a dry year, especially a dry spring, then root regeneration is poor and even plants that survived and thrived for decades may decline in the second year of this 1-2 punch. We had a wet year, so be-aware in the spring and summer of 2019 if it is dry; do what you can with irrigation if this occurs.

As Robert Frost wrote:

A tree's leaves
may be ever so good,
so may its bark,
so may its wood;
But unless you put
the right thing to its root,
It never will show
much flower or fruit."

photos continued on page 14



Burning bush hedge that looks good.



But much of it is declining.



And is now a horticultural detriment.



The beauty of crabapple blossoms. "Scarlet Brandywine." Some scab though.



A healthy Adirondack crabapple. Outstanding resistance to scab.



The beautiful "Strawberry Parfait" crabapple. Excellent scab resistance.



Scab on crabapple crab.



Volutella in pachysandra bed.



Scab on crabapple WC.



Cadosporium on peony.



Volutella on pachysandra leaf.



Volutella on pachysandra stem.

OLCA 2018 Annual Meeting

Wednesday, December 5, 2018
6pm-9pm
The Tap Room
165 N. 4th St., Columbus, OH 43215

You are invited to attend the 2018 OLCA Annual Meeting to celebrate a successful year, learn who won the Lawn Care Technician of the Year and what is changing at your association. For questions, call 800.510.5296 or email info@ohiolawncare.org.

PURPOSE BUILT

TO OVERCOME THE SHORT COMINGS OF THE OTHER MACHINES

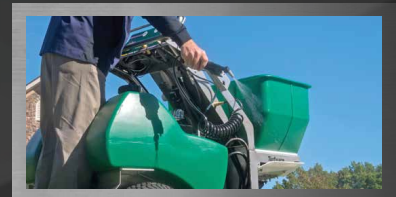
- ➔ Hill climbing and side hill stability.
- ➔ User friendly and highly maneuverable.
- ➔ Built rugged for productive, daily, long-term use.
- ➔ Durable Honda motor.
- ➔ Heavy-duty proven components; heavy-duty cables, automobile-type wiring harness and many custom designed components.



Rotomolded hopper can be compartmentalized for two materials.



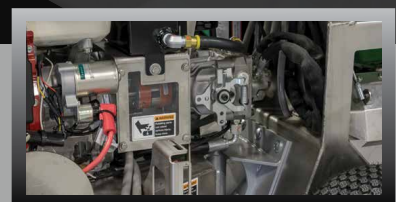
Triple spray nozzle assembly for better spray pattern and better operator control.



Easy access Spot Control Sprayer.



Instant command hydrostatic finger tip operator controls. **NOT** a wimpy gear drive transmission!



Simple design allowing full accessibility for care. **NO BELTS. NO GEARS. NO PULLEYS.**

PROVEN

OVER 11 YEARS IN DEVELOPMENT & HEAVY-DUTY DAILY TESTING

In 2006 we became fed up repairing equipment made by others and decided to start building our own spreader sprayer! For the next four years, we worked through friendly fabrication companies to build our parts while we developed prototypes of our machine. In 2010 we made the large investment to setup our own fabrication shop, brought in our lead developer and made the investment to purify our spreader sprayer and the processes necessary to manufacture the equipment at high levels of quality. We are now finally happy with the results and feel many others will be too!

After 11 years of testing within our own lawn care business, we finally brought the TR360 to market late in 2016. We 'tested' the machine on our own fleet of lawn service trucks and were happy. We strongly feel you will be too! The TR360 is well built, simple to operate and easy to maintain! Reliable!

Turfware

Equipment Company

1049 McCauley Road, Stow, Ohio 44224
1-800-637-4000 • 330-929-9000
www.turfware.com



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