

Massachusetts Tree Wardens and Foresters Association

Organized for the Protection and Preservation of Trees

March 27, 1913 ♦ Dr. George E. Stone, Founder



2020
Issue 3
Fall

A Close Look at Fall Colors by Joe Rankin

Where I live, autumn typically starts in late August, when pockets of red maples start to turn scarlet around the marshes and lakes. Uh oh. As they say in Westeros, “winter is coming.”

But not before we get to enjoy fall. Yes, a New England autumn is a postcard cliché. Yes, the tour buses and land yachts full of leaf peepers clog the roads. But, really, who can blame them? No matter how many you’ve seen, fall in the Northeast is still one of nature’s most awesome spectacles.

And, so, so ephemeral.

We know basically how the whole thing unfolds, and why. But despite all that has been discovered about tree physiology, we still haven’t unpacked everything.

“A lot of general patterns we can see and explain, but there’s a lot of complexity that we certainly don’t know about the fall color,” said Jay Wason III, a tree physiologist and assistant professor in the School of Forest Resources at the University of Maine.

Basically, we have autumn in temperate zones because in the months of low sunlight, cold temperatures, and ice and snow storms, large, flat leaves would be a liability, said Wason.

Decreasing day length is a main driver of the timing of the color change and the resulting leaf drop. But temperature and precipitation also play roles. You can see this by looking at the side of a mountain, where trees at higher elevations typically change color earlier, reflecting colder temperatures, even though all of the trees on the mountainside are reading the

same day length. The same holds true in low-lying areas, where colder air pools and creates fall-like temperatures sooner.

Plants sense changes in day length using special molecules called phytochromes, and react by curbing production of chlorophyll, the green pigment that is the heavy lifter when it comes to photosynthesis. As chlorophyll disappears, underlying yellow and orange pigments, called carotenoids, are unmasked. They’ve been there all along, but only become visible now.

Reds are something else. Known as anthocyanins, they’re produced in the fall, but we’re not really certain why. Wason said one hypothesis is that these red-reflecting pigments are helping to protect the leaves from damage by sunlight as the tree is working to siphon all the nutrients it can from its leaves, nitrogen being the most important.

Temperature and precipitation help determine how much of this red pigment is produced, and thus how colorful the fall will be. To make anthocyanins, the tree needs sugars, and to produce those sugars it needs moisture and sunlight. That’s why a fall drought can definitely put a damper on the season’s colors, said Wason.

As the leaves change colors, each forms a corky layer – the abscission layer – at the end of the stem, which weakens the bond to the twig and eventually cuts it free. After the leaves fall, the yellow, orange, and red pigments



continued on page 17

The BARK Newsletter is made possible through a grant from the USDA Forest Service, Urban and Community Forestry Program and the Massachusetts Department of Conservation and Recreation, Bureau of Forestry.

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MTWFA MASSACHUSETTS TREE WARDENS' AND FORESTERS' ASSOCIATION

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Published Quarterly

Spring-Summer-Fall-Winter

From the President



I'm generally not one to wish time away, but I'm looking forward to singing a little "Auld Lang Syne" on New Year's Eve. This Scottish poem's title loosely translates to "days gone by," and I for one will be pleased to raise a glass looking toward a

better experience in 2021. Hopefully it will mark a time when I'm free from the confines of my spare bedroom remote office that's staffed with two cats who are still annoyed I've taken up residence in their space. No longer will I be attending meetings on Skype, Teams or GoToMeeting, but I'll be seeing other adults in person, without the need for a manufactured screen background hiding my lack of housekeeping skills and Star Wars decor.

Yes, this pandemic season has brought a host of challenges we never anticipated, and we do need to prepare ourselves that life as we previously knew it is going to be changed in some fashion. I'm confident you could name off several things that will be the norm moving forward as a result of the past 6 months. Many of them are to our benefit, such as a heightened awareness for employee wellbeing and health. Our need to ensure workplace safety now goes beyond hard hats and chaps and requires us to adhere to a new level of responsibility and accountability. The need to communicate more frequently and provide emerging details in a timely fashion has thrust many of us into technology platforms we never would have anticipated using in the past.

The Tree Wardens' Association is no different as we navigate how we move forward this year and into the next decade. As we monitor the guidelines set by the state, our challenge is to find ways to adapt and modify programs that can be achieved in a post-pandemic or remote climate. As a result, our 2021 Annual Meeting and Conference will be completely online. We are going through the same effort to secure speakers on topics and issues that directly impact how we perform our roles as arborists and tree wardens every day. I hope you'll use this year's remote format to engage your work force and use it as a tool to introduce others to our association. Find initial information about the 2021 Annual Meeting and Conference on the next page and look for more details soon. Please take the time to sign up and attend.

I hope this fall finds you safe and healthy. We look forward to seeing you "virtually" in the near future.

Paul Sellers
President 2019-2020

Tree Warden of the Year Nomination Time

Nominations for Tree Warden of the Year are welcome at any time of year, but the deadline for the January 2021 award is fast approaching. Visit <https://masstreewardens.org/tree-warden-of-the-year/> to read the nomination criteria, see a list of past recipients, and access the link to the online nomination form.

MTWFA encourages members to share the criteria and nomination link with local tree committees and other community forestry advocacy groups, e.g. those who have worked with their local tree warden and can speak to their community involvement. The deadline for applications is December 1st. 🌲

Urban Forest Strike Team: On to a New Chapter

The U.S. Forest Service and MTWFA recently closed out a longtime cooperative agreement that helped initiate the Urban Forest Strike Team (UFST) concept in Massachusetts and the 17-state USFS Northeastern area. One of the final activities wrapping up the cooperative agreement (a type of grant) was the development of a short video by Ohio's Tyler Stevenson and other state staff, summarizing their use of the Urban Forest Strike Team to assess tree damage in the Dayton area after tornados struck there in 2019.

The Massachusetts Tree Wardens' & Foresters' Association supported both the Ohio deployment in 2019 and the video, using federal grant funds they had for the UFST. In addition to this and other active deployments, the grant funds supported training of more than 100 UFST task specialists and team leaders, many from Massachusetts and New England.



Ohio has produced a good resource to share with others to summarize how UFST assessments can help communities recover after disaster damage to their urban forests.

View the YouTube video at the home page of our website, www.masstreewardens.org or go to <https://youtu.be/jCiStBtI3ts>. 🌲

Virtually Speaking

MTWFA Annual Conference in the Time of COVID

Hello members, partners, and friends,

As the nights get cooler and the days grow shorter, the MTWFA Executive Board begins to finalize the details for the coming year's Annual Meeting and Conference. Despite the recent challenges of the global pandemic, the Executive Board has been working on developing the 2021 program in order to offer the value-added content you have come to expect. The Annual Meeting and Conference has always been a great opportunity for our members and partners to learn, socialize, and be part of a great forestry community and tradition.

To continue the tradition and to keep our community safe, the Executive Board has decided to offer the 2021 Annual Meeting and Conference on a virtual platform. It was not an easy decision, but it was agreed to be the best and safest move forward for the association and our members. Although our attendees will be apart physically this year, they will still be part of a great tradition in mind and soul.

The virtual Annual Meeting and Conference will be held and moderated in live time on January 12th and 13th, 2021. The program will run approximately half of the day. Our presenters will pre-record their presentations, and they will also be available in live time at the end of the session for a brief question-and-answer period. Topics for the 2021 event will include climate, insect pests, disease pests, vegetation management strategies, successional planting, and an update regarding state forest health and special programs from our friends at the Massachusetts Department of Conservation and Recreation.

The conference will continue to offer the valuable continuing education credits we all seek and value, credits from a number of organizations and agencies. In addition to the opportunity to earn continuing education credits, the annual meeting serves as an important platform to conduct association business with our membership. The Executive Board is currently working out the details to be sure we maintain our continuity of operations while using a virtual platform.

Please look for our Annual Meeting and Conference brochure in the near future, and please consider attending and carrying forward our tradition. There will be a time when we are together again.

Sincerely,

Arthur Goodhind

Vice-President and Conference Chair

2021 Conference Preview of Speakers and Topics

Julie Coop, Urban and Community Forestry Coordinator, Massachusetts Department of Conservation and Recreation

State DCR Update: Urban & Community Forestry Programs

Tawny Simisky, PhD, UMass Extension Entomologist

Forest Pest Update: Insects

Randall G. Prostak, PhD, UMass Extension Weed Specialist

Rights-of-Way Best Management, Knotweed, Poison Ivy, and Hogweed

Leslie Brandt, PhD, Climate Change Specialist, US Forest Service

Adapting Urban and Community Forests in Massachusetts to Climate Change

Nicole Keleher, Forest Health Program Director, Massachusetts Department of Conservation and Recreation

State of the State Forest

Nicholas J. Brazee, PhD, UMass Extension Plant Pathologist

Pathogens & Pests Encountered at the UMass Plant Diagnostic Laboratory During the 2020 Season

2020: Beyond the Pandemic, A Plague of Fires and Other Climate Events

Forest fires are not unique to the West Coast. Often urban forestry managers in Massachusetts are tasked with managing larger forested areas such as town forests and other protected lands, not just public shade trees. Many resources are available to assist the urban forestry manager, including the Climate Change Response Network, of which the United States Forest Service is a key partner.

The Massachusetts Department of Fire Services reported 3,254 tree, grass, and brush fires in Massachusetts in 2018, noting that this category of fire is the most variable year to year due to changes in weather. The Commonwealth is well positioned with resources to assist many types of property owners with fire control and prevention through the

Massachusetts Forest Fire Control Program. In addition to state resources, national programs such as the Climate Change Response Network offer resources for planning and prevention of forest fire and management actions relatable to changes in climate.

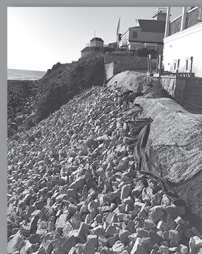
Check out what our national partners are working on to assist urban forestry managers in the New England region generally and in Massachusetts specifically. The organization's website contains many resources for the urban forestry manager, such as outlines for developing adaptation strategies and approaches to forest management. More information can be found by visiting the website of the Climate Change Response Network at forestadaptation.org. 📱

Submitted by Art Goodhind, from information sent by Leslie Brandt, US Forest Service, one of our 2021 conference speakers

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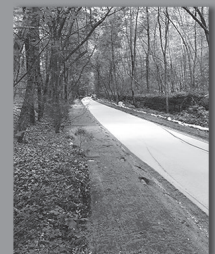
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The Latest from Massachusetts DCR: Urban and Community Forestry Program

<https://www.mass.gov/service-details/urban-and-community-forestry>

Tree City USA

The DCR is responsible for reviewing Tree City USA applications from Massachusetts to ensure that the information is current, accurate, and complete. DCR then recommends applicants for the award to the National Arbor Day Foundation.

The Arbor Day Foundation now makes the entire application process available on-line. The DCR prefers that cities and towns use this on-line tool for the application process. However, if you need to fill out a paper application, go to the DCR website for instructions for submitting the application and the additional documentation required.

For 2020 Applications: please note that due to COVID-19, the Arbor Day Foundation has waived the Arbor Day celebration and proclamation requirement for 2020 applications. Communities are encouraged to find safe ways to celebrate Arbor Day, but will not be required to have an observance and proclamation for 2020. To facilitate the DCR's processing of 2020 applications during the pandemic, DCR strongly encourages the use of the online application portal.

If your community or institution was awarded a Tree City USA or a Tree Campus Higher Education designation this past year, the DCR has your recognition materials and will be working on distributing them this fall.

Arbor Day Poster Contest

Each year Massachusetts fifth graders participate in the Arbor Day Poster Contest. Each school holds its own poster contest and submits their winning poster to the DCR. Prizes include art supplies, ice cream, and a tree for the winner's school. All entries must be original artwork created by a student who is currently in the fifth grade.

Every year there is a theme to encourage students to think about trees in new ways, and the theme for 2021 is "Trees Out Our Window." Tree wardens and others are encouraged to share the information with their local schools to encourage submissions. The deadline for the 2021 contest is March 15, 2021. Find links to more information at <https://www.mass.gov/service-details/urban-and-community-forestry>.

Annual Tree Stewards Training Cancelled


Due to the pandemic, DCR has cancelled its two-day Tree Steward Training for 2020. Save the dates for next year: October 15-16, 2021. 📅

Congratulations Mollie!

Mollie Freilicher and Nathaniel Rayl were married late this summer at a spot special to them in the Colorado National Monument. We are delighted for Mollie and Nathan and wish them all the best as they begin their future life together!

Many know Mollie as the Community Action Forester for the Massachusetts DCR Urban and Community Forestry Program. We are truly happy for her, *and* we are truly sad for us that this good news means Mollie will be moving to Colorado. You can email Mollie at mollie.freilicher@state.ma.us. 📧





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MTWFA Scholarships Application Now Available

The Massachusetts Tree Wardens' & Foresters' Association each year awards a number of scholarships. The scholarships are awarded in March and, in normal years, are presented at the Community Tree Conference in Amherst.

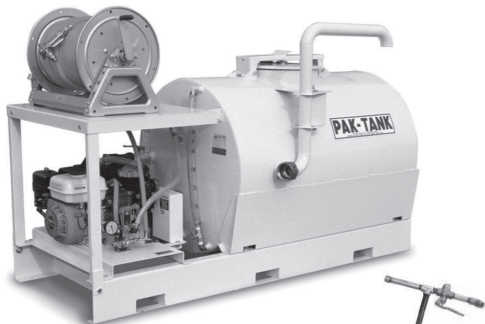
The fillable 2021 application is now available for download and may be submitted electronically or by mail. Find this year's application at <https://masstreewardens.org/scholarships/>. The application deadline for the 2021 awards is February 1, 2021.

Students must be either currently enrolled at or applying to an accredited Massachusetts college or university in the field of Arboriculture, Community Forest Management, Urban Forestry or a related field; or they must be resident in Massachusetts but enrolled at, or applying to, an accredited out-of-state college or university in the field of Arboriculture, Community Forest Management, Urban Forestry or a related field. 🏠

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These Trees Toe the Line

A niche arboretum at the University of Massachusetts demonstrates how trees and power lines can coexist

by Michael A. Dirr

March 5, 2020

A campus tree walk in 2014 at the University of Massachusetts, Amherst — where I received my Ph.D. in 1972 — brought together arborists, horticulturists, landscape architects, nurserymen and tree lovers. I enjoy leading these close encounters of the tree kind, for the interaction among participants is a teaching/learning/sharing opportunity. Once the group becomes acclimated, the depth of tree knowledge flows like an artesian well. Such was the situation on July 25 with Todd Cournoyer, head of landscape management at UMass, and Robert (Bob) Allen, vegetation manager at Eversource Energy, which supplies power to Massachusetts, Connecticut and New Hampshire. Bob is a UMass graduate in arboriculture and manages the vegetation management program at Eversource, which maintains over 40,000 miles of power lines and more than 450 contracted tree crews. Bob is responsible for the Massachusetts and New Hampshire programs. Massachusetts has very strong public shade tree laws and by statute requires that each town have a tree warden. The tree warden is responsible for the health, maintenance and welfare of the trees that are growing in the public right-of-way, often known as a tree belt. This is usually where the overhead electric lines exist as well, so the relationship between Eversource arborists and the tree wardens is an important one. The interaction/intersection of trees and utility lines, the good and bad, is part of Bob's everyday juggling responsibilities.

His stance is that customers love their trees, but less so when electricity is compromised. During the campus tree walk, he jumped into the discussion about tree selection and pulled a bookmark with pictures and text of 10 small trees his company recommends for use under utility lines. Eversource spends \$200 million per year on tree care, including maintenance, pruning and tree removal, and another \$20 million clearing rights-of-way/main transmission line areas. The company's goal is to reduce these costs by proper tree planting and care. Customers demand trees, so why not accommodate with the best choices.

An idea takes root

This idea of a utility arboretum emerged from this serendipitous encounter of tree aficionados and was eventually carried to completion by Bob and his company who understood the economic and public relations logic for such a facility. Bob had worked with the Community Forest Advisory Council of New Hampshire and the United States Forest Service to create a much smaller utility arboretum at the Urban Forestry Center in Portsmouth, New Hampshire, a few years earlier. That had come about after an historic windstorm decimated the mature spruce forest at the Urban Forestry Center. PSNH (an Eversource predecessor company) installed two poles and 150 feet of non-energized wire as a demonstration site for planting the "right tree in the right place." The Community Forest Advisory Council worked together with Eversource to select and plant 10 trees that could co-exist with overhead electric lines. When the merger took place to create Eversource — an all-hands meeting of the vegetation management group was held in Portsmouth at the Urban Forestry Center. Bob's new leadership team, headed by Vera Admore-Sakyi, director vegetation management at Eversource, was impressed by the utility arboretum and challenged Bob to expand on the idea in Massachusetts and Connecticut.

For 32 years, he has managed trees and wires through the vagaries of New England weather, at times living in his office to coordinate storm repair and cleanup. He is also a dedicated gardener, continually sourcing new trees for his New Hampshire



Prunus incisa 'Little Twist' in bloom at the arboretum. To the left of 'Little Twist' is Amur Maackia. In the background are mature trees that are used for utility trimming training.

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Spotted Lanternfly Update

MA Dept. of Agricultural Resources Announces Additional Detections in MA

On September 25, 2020, the Massachusetts Department of Agricultural Resources (MDAR) confirmed the finding of two more dead specimens of the invasive spotted lanternfly (SLF), this time in the towns of Milford and Norwood, MA. MDAR notes they were brought in on materials that originated in Pennsylvania counties currently under a spotted lanternfly quarantine. MDAR was also recently notified that nursery stock with spotted lanternfly egg masses and adults may have been unintentionally imported and planted in several parts of Massachusetts.

Because no live lanternflies have yet been found in Massachusetts, there is currently no evidence that SLF has become established in the Commonwealth. As a precaution, surveys are planned in the areas where the insects were found to confirm that no live populations are present. While a dead lanternfly was previously found in the Boston area in December of 2018, repeated surveys have found no further signs of SLF in that part of the state.

Joshua Bruckner, Forest Pest Outreach Coordinator for MDAR, is asking everyone to check for signs of SLF and report any findings. "Outreach is the most important tool we have for preventing the spread of this pest," wrote Joshua.

For more information, read MDAR's press release:

<https://www.mass.gov/news/state-agricultural-officials-urge-residents-to-report-signs-of-invasive-spotted-lanternfly>

The fact page and reporting form for SLF is <https://massnrc.org/pests/slf>.

To request outreach materials, please visit <http://bit.ly/FPOMOrder>.

STOP THE SPREAD OF SPOTTED LANTERNFLY



Spotted lanternfly attacks over 70 different plants, including economically important crops (grapes, apples, hops), forest and shade trees (maple, willow, birch), and the invasive tree of heaven.

This pest has now been spotted in several parts of Massachusetts.

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Early nymphs
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Late nymphs
(July-Sept.)



Adults
(July-Dec.)



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garden. We bonded during this first meeting and shared ideas about how to develop the utility arboretum. My wife, Bonnie, called us brothers from another mother. In fact, Bob and his wife, Loring, visited Athens in December 2017 where we spent days visiting nurseries, talking trees and strategizing how to bring the idea to reality.

Eversource vegetation management was now a part of operations services which was led by Stephen J. Driscoll, Eversource vice president. Also, part of operations services was the Eversource training department. The training group was moving their facilities to the Eversource main campus in Berlin, Connecticut, which meant that old poles, wires, transformers and other equipment would be scrapped. Bob worked with the training department leadership to have that equipment repurposed to the UMass site. An ancillary benefit to this was that apprentice line workers would perform the tearing down and then the construction of this demonstration site. Since there would be seven poles and over 1,000 feet of de-energized wire, it allowed the apprentices to experience this construction in training mode as it was not a “live line.” The fact that the construction was educational for the apprentice line workers and that it was taking place at a university with the goal of education of students, landscape architects, contractors, tree wardens and industry professionals added to the synergy. Eversource believed that this was an ideal gateway to a conversation about trying new tree species and cultivars under and adjacent to the lines. If we could have an easily accessible site, in partnership with the highly regarded University of Massachusetts, then we could work together with the industry to show underutilized species that would reduce maintenance costs for Eversource and the towns.

A public/private partnership

Previously there were utility company-sponsored tree evaluations mediated/managed by academics in Ohio, Minnesota and Virginia, and possibly other states. How would this be different? Eversource would partner with UMass, Stockbridge School of Agriculture, the arboriculture program, faculty, staff, students and nurseries to replicate transmission lines, poles and transformers for student training. The idea was to develop best management practices for tree selection/care in the

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The advertisement features a background image of bare tree branches against a light sky. On the left, there is a stylized logo for Favreau Forestry FFI L.L.C. inside an oval, with a silhouette of a tree to its left. To the right of the logo, the text "FROM A SINGLE BRANCH... TO THE WHOLE FOREST." is written in large, bold, white capital letters. Below this, on the left, is a list of services: "Hazardous Tree Removal, Crane Removals, Tree Pruning, Storm Debris Reduction/Removal, 24-hour Emergency Response Services". At the bottom left, the website "FAVREAUFORESTRY.COM", phone number "978.706.1038", and location "STERLING, MA" are listed. On the bottom right, there are three circular and rectangular certification logos: "ACCREDITED" from the Tree Care Industry Association, "CTSP" (Certified Tree Safety Professional) from the Tree Care Industry Association, and "ISA CERTIFIED ARBORIST" from the International Society of Arboriculture. Below these logos, the text "ISA CERTIFIED ARBORIST NE-6934A" and "TCIA ACCREDITED COMPANY MA-025" is displayed.

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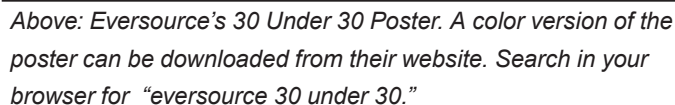
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“Eversource believes strongly in communicating ‘the right tree in the right place’ to the public,” says Driscoll. “When the University of Massachusetts utility arboretum site became available, we knew it was a great opportunity to visually get that message across.”

The success of the utility arboretum at UMass spawned developments at Hooksett, New Hampshire, with ongoing discussions about a utility arboretum in Connecticut. I believe the initial utility arboretum could serve as a model for other regions of the country, partially supported by energy companies. With the cadre of tree and shrub breeders/introducers at the University of Georgia, North Carolina State University and several Georgia nurseries (Bold Spring, Select Trees and Moon Tree Farm, for example) a location in the southeast makes perfect sense previously mentioned and the tree communities become a

J. Frank Schmidt and Son Co. in Boring, Oregon, branded UtiliTrees to promote small-statured trees whose mature heights rarely exceed 25 feet. Any process that makes selection easier benefits our industry.

The utility arboretum at UMass is open to the public, and during the 100-year anniversary celebration of the Stockbridge School of Agriculture in the fall of 2018, the tours of the arboretum and the campus tree walk were the most popular events. People love trees and this is but another way to influence them. 🌲



*This article was first published in the March 2020 issue of **Nursery Management** magazine and is reprinted with permission.*



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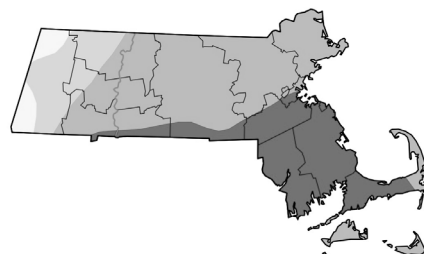
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September 29, 2020
(Released Thursday, Oct. 1, 2020)
Valid 8 a.m. EDT



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D3 Extreme Drought
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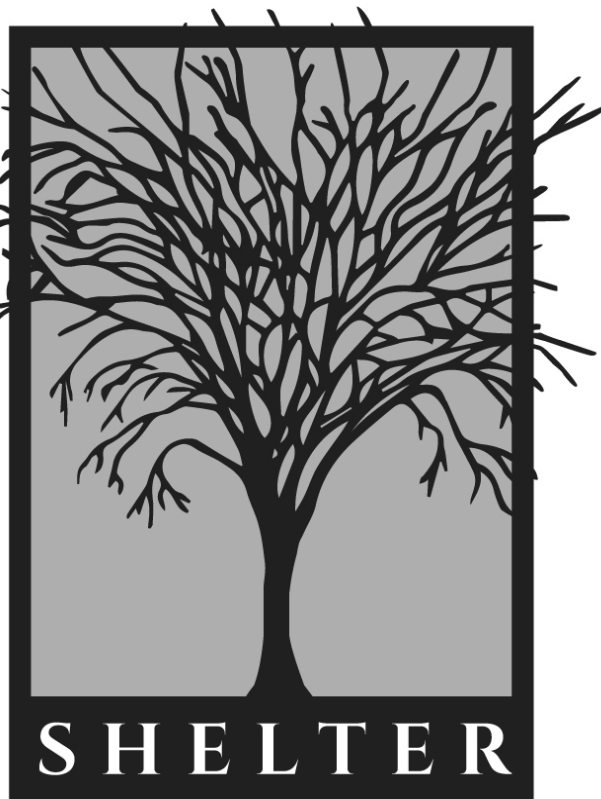


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A Close Look at Fall Colors - Joe Rankin

continued from page 1

break down, leaving nothing but tannins that turn brown. It's those same tannins that slow the breakdown of leaves and allow them to become a mulch layer on the forest floor.

The careful observer will note that, in spring, tree species seem to leaf out at different times. Ashes, for instance, are often one of the last to put on leaves. It's like they're not certain about commitment. When winter is coming, everyone is committed.

"We tend to see more variability in the spring and less in the fall," said Wason. Perhaps that's because tree species tend to be a little more responsive to temperature variation in the springtime, he said.

No one's got the definitive answer, but it's probably related to each tree species' growth strategy, he speculates. In springtime, ashes spend a lot of time and energy building large water transport cells in their stems, only later moving on to leaves. Once built, however, that big plumbing system can move a lot of water and nutrients. In other words, they catch up. By fall, things have evened out.

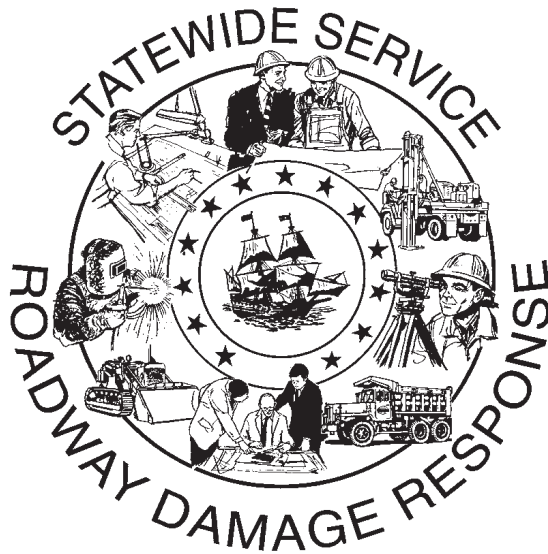
Scientists are still probing for answers to questions about the fall foliage season. The fact that the leaf extravaganza is a big economic boon to states in the northeastern US is a good excuse for the research. So is climate change and how a warmer earth will affect the annual spectacle.

Warmer temperatures could cause a shift in the timing of fall foliage; summer or fall droughts could affect color saturation; tree species will move over time in response to local climate change. Exactly how things will play out long-term is hard to predict. But autumn is on now. Enjoy it while it lasts.

Joe Rankin writes on forests, nature, and sustainability. "The Outside Story" is a regular feature assigned and edited by Northern Woodlands magazine (www.northernwoodlands.org) and sponsored by the Wellborn Ecology Fund of New Hampshire Charitable Foundation (wellborn@nhcf.org)

This article is reprinted with the permission of the author. It was originally published on October 11, 2019 by the nonprofit Northern Woodlands, www.northernwoodlands.org. Northern Woodlands seeks to advance a culture of forest stewardship in the northeast by increasing understanding of and appreciation for the natural wonders, economic productivity and ecological integrity of the region's forests. 🌲

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Calendar of Events

DATE	EVENT	MORE INFORMATION
October 13	TREE Fund Webinar: Measuring Multi-Stemmed Trees	www.treefund.org/webinars
October 14	Millions, Billions, and Trillions: Do You Have the Tools to Keep Them Alive?	www.fs.fed.us/research/urban-webinars/
October 14	Webinar: Tick-borne Disease Surveillance in the US	www.umassgreeninfo.org
October 15	Webinar: Social Media and Urban Forestry	www.urbanforestrytoday.org
November 1	DCR Challenge Grants: Final Applications Due	email: julie.coop@mass.gov
November 17-20	Virtual Conference: Partners in Community Forestry	www.arborday.org
	2021	
January 12-13	Virtual Conference: MTWFA	www.masstreewardens.org
January 13-15	TCI Virtual Summit 2021	https://summit.tcia.org/

Check in With the Websites Below for More Education Opportunities

www.masstreewardens.org	MTWFA - Massachusetts Tree Wardens' & Foresters' Assn.
www.umassgreeninfo.org	UMass Landscape, Nursery & Urban Forestry Program
www.massarbor.org	MAA - Massachusetts Arborists Assn.
www.newenglandisa.org	NEC-ISA - New England Chapter ISA
www.isa-arbor.com	ISA - International Society of Arboriculture
www.mass.gov/service-details/urban-and-community-forestry	DCR - Massachusetts Dept. of Conservation and Recreation
www.tcia.org	TCIA - Tree Care Industry Association
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