



Missouri Native Plant Society Hawthorn Chapter Newsletter

Volume 35, Number 11

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The Hawthorn Chapter of the Missouri Native Plant Society Newsletter is published monthly. Send submissions by the 26th of every month to:

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We would like to read about announcements, impressions, species accounts, photos, poems, links to scientific articles or other creative nature writing **from you, too**. Please submit during the second half of every month.

This is the 35th year Hawthorn has supplied a newsletter to chapter members.

November 2020

Future Activities Calendar

Announcements

For the foreseeable future we will have presentations and occasional meetings offered by Zoom. **Our traditional meeting time is second Mondays at 6:30.**

This 12 Nov, Lea's Zoom presentation: Outdoor Classrooms: Creating Native Habitats with and for Students and Teachers is an overview of OC's in our area, how they are related to native plants, and how they are created. Part will focus on the Early Learning Center North project, as a case study of an OC area, and as part of the final report for the grant they received from the Hawthorn. You will receive the Zoom link a few days before 12 Nov.

Lea has been a gardener since childhood. She was introduced to native plants around 2007, when she asked the community for butterfly plants for a new school garden. Hawthorn and Becky answered her call, with plants, energy, and a wealth of information.

Two years later she was introduced to schools with Outdoor Classrooms. MDC had helped to create some; they struggled with upkeep, so by that time the gardens were barely used. Lori, Meredith, and Lea started the Outdoor Classroom Project to help connect students and teachers connect with nature through use of the OC's, and to help teachers feel more confident about their abilities to use the OC's for teaching. With the help of about 50 volunteers and students, they also directed maintenance of the OC's.

Be sure to read the additional attached documents: Hawthorn meeting minutes from the September meeting, and explanation of hemorrhagic fever and CWD in deer from MDC.

Dues are Due

If you have not purchased a Life Membership, and you did not pay dues when first announced in June, you may still pay dues for 2021, see the last page [here](#) or the last page of the Petal Pusher <https://monativeplants.org/wp-content/uploads/petal-pusher/PP-35-5-2020-09.pdf> for options.

Thanks to Louise, Lea, Kathleen, Nadia and Dana for their submissions this month!

Thanks to Michelle for proof reading.

VOLUNTEERING OPPORTUNITIES

Many of you have expressed interest in helping to manage the myriad of native plant gardens around town and at Columbia Public Schools as a reason to get outside and a process of education. Doing this community service is applicable to your MMN re-pay requirements. Even if you have not had MMN training, working in these gardens will help you learn how to recognize good native plants from undesirables. Lea is the leader for this volunteer group [named Volunteer of the Month by City of Columbia this summer]. She knows where all the gardens are and offers a schedule, received from her by email, when group weeding parties occur. If you have confidence in your knowledge of species recognition, don't be shy! – ask Lea for a garden and do what you can to remove 'bad plants' when you want to work. If you need assistance with id and technique, go with a group several times before you strike out on your own. langtree@gmail.com call or text 864-7647.

MPF gave MONPS the award for Plant Protector at the annual dinner 28 August

<https://www.youtube.com/watch?v=7KC789mGYWM>

GOLD LINKS

MDC Offers solutions to avoid large windows killing birds during fall migration. There are numerous products available to prevent bird strikes. The American Bird Conservancy's Bird-Friendly Windows page offers suggestions at

<https://abcbirds.org/program/glass-collisions/bird-friendly-window-solutions/>.

Those who have problem windows at home or at a business are encouraged to contact

birdsafekc@burroughs.org to discuss solutions.



[BE photo Primula meadii]

Louise graced the latest Petal Pusher with extensive research on the Primrose family.

Excerpt:

Primulaceae, the Primrose family, has some twenty-eight genera with about 1000 species in the north temperate zone, many of which are alpine, according to Edgar Denison in *Missouri Wildflowers*, 6th edition. Despite its common name of Primrose family, it should not be confused with *Onagraceae*, Evening Primrose family, which is home to the familiar Missouri evening primrose (*Oenothera missouriensis*). There is a second point of confusion

Special State Webinar

Dana Thomas President MONPS is offering a special opportunity to members.

URL: <https://monativeplants.org/monps-webinars/>

In case you missed our fall webinar on September 25th, it's now available on the MONPS website! Justin Thomas, Science Director of NatureCITE delivered an informative perspective in his presentation entitled [Plants in Place: The Nature of Native. How Missouri's native plants came to be, what they tell us about the places they live, and what they tell us about ourselves.](#)

Thanks to those who attended and had patience as we navigated our first webinar. We hope to offer more this winter! And thank you for your support of Missouri's native flora.

Paraphrased from Justin's conclusion: Study plants - what their community is during or after human use – or not. Take notes. Experience all kinds of nature – get out of town! Get off the path! Gain understanding, knowledgeable compassion, and integrity. There might be 2 in 1000 who care enough to reach the deeper understanding to restore the natural landscape. Humans are not separate from Nature.

Nature Journaling

Louise wrote a fabulous article this summer about how she is learning in depth from journaling. Justin hints that this practice is a method to deeper learning.

After Meredith gave us a most interesting and instructive presentation on journaling last month, I think I need to post this link again – prominently

academy.allaboutbirds.org

Also Subscribe to the Center for Plant Conservation's monthly newsletter:

<https://centerforplantconservation.us12.list-manage.com/subscribe?u=5111078c47821caea413b21ca&id=601d443b31>

MONPS Accomplishments June 2019 – Sept 2020

- Board is working to clarify bylaws and generate a new logo for the T-shirts.
- *Missouriensis* vol 37 is on line; vol 38 should be posted by the end of this year.
- *Missouriplants.com* is open again and partially updated.
- MONPS FaceBook has 28,000 followers.

Order MDC Calendars Immediately

Hawthorn chapter plans to sell 2021 MDC Nature Calendars again this year. By buying in bulk we are able to offer them for \$7.00 each instead of the \$9.00 they sell for from the Nature Store. Many of you buy multiple copies as they make a nice Christmas gift. We also have books in our supply that can be purchased with or without a calendar order. See the books and prices in the list below.

Here is how it will work in this year of Covid. Send a letter by mail to Paula Peters. Write on a piece of paper: your name, email address, the number of calendars and/or any books you want to buy, and enclose a check for the total amount made out to "Native Plant Society". Please put "calendars/books" in the subject line of the check. **Deadline for ordering is Nov. 15.**

We will then place an order for the amount of calendars pre-ordered. Don't expect there to be additional calendars. When the calendars come in, you will be notified by email that you can pick them up from Louise. Reply to Louise at that time by email to arrange a time to come to her driveway at home located very close to 63 south of town. Phone numbers and directions can be exchanged in the email. She will bring your order to your car. Please wear a mask during the exchange. There won't be any mail orders.

related to *Primulaceae* that I will clear up later.

Read the whole article:
<https://monativeplants.org/wp-content/uploads/petal-pusher/PP-35-5-2020-09.pdf>

To learn more about **Deep Roots KC** or to view previous educational webinars, visit <https://deeprootskc.org/>.

Amazing resource for **stratification instructions**
<https://tomclothier.hort.net/page02.html>



National Geographic Magazine, Sept 2020, P15: The Cost of Harming Nature.

The more we stress and degrade nature the more animals shed disease. Then we interact with them and we are now living the results. Ecosystems with a full complement of species harbor less disease.



Wild & Weird: Climate Is Changing Flowers' Color

Received by email from Center for Biological Diversity newsletter 22 Oct 2020



Between 1941 and 2017, the amount of pigment in flower petals in North America, Europe and Australia increased by about 2% yearly, says a new study — all in response to a steady increase in UV radiation caused by climate change.

The more UV-absorbing pigment a flower's petals contain, the less harmful

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Hawthorn Chapter - MONPS Book List

Missouri Department of Conservation Publications

Price	Title
\$8	Discover Missouri Natural Areas by Michael Leahy
\$15	The Amphibians and Reptiles of Missouri (2nd Ed.) by T. R. Johnson
\$9	Missouri Orchids by Bill Summers (only one left)
\$7	Trees of Missouri Field Guide by Don Kurz
\$7	Shrubs and Woody Vines of Missouri Field Guide by Don Kurz
\$7	Show Me Bugs by Michael Reinko
\$7	Show Me Herpes by John Miller
\$6	Tried and True Missouri Native Plants for Your Yard
\$7	A Paddlers Guide to Missouri (2013 Edition)
\$6	Water Plants for Missouri Ponds by J. R. Whitley, B. Basett, J. G. Dillard, R. Haefner
\$14	Missouri Wild Mushrooms by Maxine Stone
\$14	Missouri Wildflowers (6th edition) by Edgar Denison
\$14	Cooking Wild in Missouri by Bernadette Dryden

Books from Other Sources

\$15	Field Guide to Insects of North America by Eric R. Eaton and Kenn Kaufman
\$17	Bringing Nature Home by Douglas Tallamy
\$17	Ozark Wildflowers by Don Kurz (Falcon Guide)
\$17	Prairie Wildflowers by Don Kurz (Falcon Guide)
\$19	Hiking Missouri 2nd edition by Kevin M Lohroff
\$26	Nature Provides Dyes for Rainbows by Carol Leigh Brack-Kaiser (soft cover)
\$32	Nature Provides Dyes for Rainbows by Carol Leigh Brack-Kaiser (hard cover)

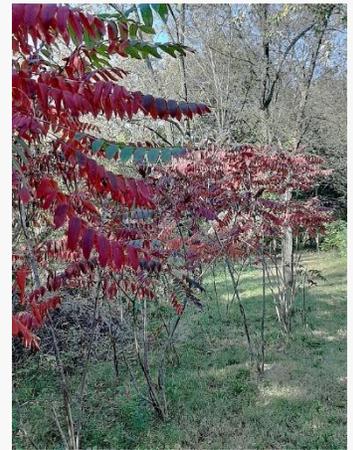


Planting for Fall Color

Photos and text by Louise

This has been a beautiful Autumn for bringing out the magnificent shades of color that plants offer up this time of year. I walked around my yard and took some snapshots of just a few of these native plant marvels.

I ordered 10 Smooth Sumac (*Rhus glabra*) seedlings from George O. White State Forest Nursery 5 years ago. Total cost was about \$8. These young trees grew easily and brought me that bright red color I wanted to see in the Fall. We had a problem one year with deer rubbing their antlers on the trunks. I feared losing them, as they rubbed the bark off all the way around, but these hearty plants came back with new shoots. During the Summer, I think of these trees as Missouri palm trees with their long, pointy compound leaves that umbrella out to form a shade canopy. They



do spread quickly from underground trunks, so give them lots of room to form a copse. Their bright red seed heads are not only pretty, but are edible and make a pink lemonade-like drink.

American Beautyberry (*Callicarpa americana*) is another native that really shows off in the Fall. Its pale yellow leaves highlight its gorgeous purple berries that stream out all the way down the stem. Every year the plant gets bigger and bigger. It can be cut back to the ground in the winter, but I leave it up, waiting for the birds to feast on the berries until all are eaten. The Northern Mockingbird loves these berries. I have a

radiation reaches sensitive cells.

Although these pigment shifts are imperceptible to the human eye, pollinators can notice the change, which may cause them to interact differently with a field of flowers. [Read more at Science magazine.](#)



Q&A

Kathleen submitted this question: I realize Bush Honeysuckle [BH] is a scourge upon the environment. At this time of year I see many berries on BH. What native shrubs/trees have you or your members found to be as prolific at providing food for the birds.

Cornus florida is about the next best, but my squirrels take all the berries and leave none for the birds! *Ilex decidua* seems to do pretty well at making berries, but it reseeds all over for me. And it is "male/female" so only half the plants provide food.

I don't really see any shrub/tree that can come up to the berry production of BH.

Becky's reply: Good points. Have you noticed BH berries are left on the bushes for quite a while? **BH berries have no nutrition.** I think birds sense that and leave them until they are desperate. Birds are just the vehicle used for spreading. BH is a parasite on many levels.

Have you ever seen the loads of berries on *Sassafras*, *Prunus serotina*, *Lindera benzoin*, *Juniperus sps.*, *Celtis sps.*, *Viburnum sps.*, and other *Cornus sps.*? Probably not often because birds strip these more nutritious native species quickly.

Prairie color [BE photo]



Beautyberry right in front of my living room window and it brings in the birds all winter long. Because growth dies back to the crown each winter, before Spring growth, I cut it back.

Flowering dogwood (*Cornus florida*) has a whole pallet of colors to offer in the Fall. The young tree I have pictured here, I dug from the yard of a NPS member who had many young trees come up next to her older trees. This poor tree got its top bitten off by my overly eager puppy 2 years ago. It chose to come back and continues to thrive. I found its variety of pink to purple leaves strikingly pretty this year. As this species ages, fall color will be quite red.



Some people don't know that some of the pine needles turn yellow in the Fall and drop off. The tree looks a little weird with it yellow and green colors, but it wants to be a part of the Fall show too and adds another splash of color in the woodlot of trees.



New England Asters (*Symphyotrichum novae-angliae*) always get too tall and fall over in my meadow, despite cutting them back in the late Spring. This year I decided to appreciate their purple blooms dropping over onto the edge where meadow meets mowed grass. They provided spots of purple blooms throughout the meadow which bees and butterflies could not leave alone.

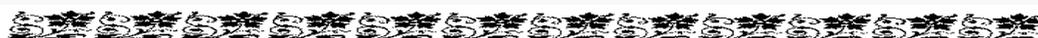


White pine (*Pinus strobus*) is another tree we got from George O. White Nursery. This tree is about 8



years old. Some people don't know that some of the pine needles turn yellow in the Fall and drop off. The tree looks a little weird with it yellow and green colors, but it wants to be a part of the Fall show too and adds another splash of color in the woodlot of trees.

Indian physic (*Gillenia stipulata*) I learned about this plant during a Hawthorn Chapter hike one Spring at Grindstone Nature Area led by Brian. Becky identified it and it caught my attention. Later, I got three young plants from Becky. Leaves have a fine, lacy texture, but it does not have a particularly showy flower, just a small white star-like bloom in the Spring. When Autumn came I was pleasantly surprised with the autumn colors that the leaves produced. I later read that this is the reason many people buy Indian physic, for its Fall color. I have to agree that it is a really nice addition to a garden that has relatively small plants. I hope to get a few more next Spring to have a grouping near my frog pond.



Delicate Prairie Rose

Text and photos submitted by
Nadia Navarrete-Tindall

Randy and I went to Friendly Prairie to participate in the activities organized by the Missouri Prairie Foundation this past Saturday. The prairie is located south of Sedalia off highway 65 and one can see the abundance of native vegetation along the roadsides, medians and farms as a reminder that Saline and Pettis counties were once, mostly prairie. We are really fortunate to have the MPF purchasing and maintaining this and several other prairies in the state. It was nice to be back to Friendly Prairie after a few years and meet with MPF friends.

In spite of that almost everything is done blooming, it was easy to see wildflowers and grass diversity. One of the species was Prairie rose (*Rosa carolina*) which is very abundant in this prairie. It can reach up to 3 ft. in height but in this prairie is shorter and grows in the understory of prairie grasses and forbs. The fruits are



Thank You From Becky

At the 25 Sept MONPS Zoom meeting, when it was announced that I was awarded the Plant Conservation and Preservation Award, I was tongue tied by the complete surprise. I didn't give an appropriate verbal response that expressed my gratitude. So the best I can do now is post it here:

With deep appreciation - I want to thank the core members of Hawthorn: Nancy (Committee Chair), Lea, Glenn, Ann, John, Michelle, Nadia, Paula, Cindy, and Sue for interviewing and amassing facts about my efforts for this nomination. They all kept it a secret for six months! And I want to thank Malissa, Michelle, and the MONPS Board for agreeing with Hawthorn's nomination. I will feel worthy of this award, that my work is making a difference, when several others in mid-MO know enough ecology and are inspired to carry on teaching and active conservation work here.

Seen on a bumper sticker:
I don't trust "normal" people.

On a tea tag:
"Talking to plants is one way of talking directly to the Great Spirit"
Rosemary Gladstar

bright red and leaves have nice tones of red and yellow. Prairie rose can be found also in glades and savannas and in prairie remnants along roadsides and blooms in early summer.

In Columbia, we have it growing in our front yard in a spot that receives about 4 hours of sun in the afternoon. It has been there for about 10 years and stays confined in an area where the soil is loose and dry. Large pale pink flowers, blooming once during the last two weeks of June, are visited by a diversity of pollinators. It propagates colonially from underground stems and separately from seed. The fruits, usually eaten by birds or mammals, contain vitamin C and are safe for human consumption. Leaves are browsed by deer, rabbit, marmot and *Orthopterans* (grasshopper family).



Emily gave a great Zoom Program in September about transforming her backyard jungle of bush honeysuckle into a native garden in two years. She **promised to provide her resources.**

Books: Doug Tallamy

- Bringing Nature Home <http://www.bringingnaturehome.net/>
- Nature's Best Hope

Edgar Denison

- Missouri Wildflowers

Mariette Nowak

- Birdscaping in the Midwest / A Guide to Gardening with Native Plants to Attract Birds

Heather Holm (opened my eyes to the more than 450 species of native bees in Missouri)

- <https://www.pollinatorsnativeplants.com/>
- An Identification and Native Plant Forage Guide
- Pollinators of Native Plants
- Awesome quick view pdfs of plants and their pollinators:

<https://www.pollinatorsnativeplants.com/plant-lists--posters.html>

Plant finder: NWF <https://www.nwf.org/nativeplantfinder/> Doug Tallamy and team created this species list by zip code. Really cool.

Grow Native Plant Database: <https://grownative.org/native-plant-database/>

MOBOT

- Plant finder. Gives info on habitat for each plant and a cool recorded pronunciation of each botanical name.
- <https://www.missouribotanicalgarden.org/plantfinder/plantfindersearch.aspx>
- This was also my go to when trying to verify if a species was native to Missouri

APP: iNaturalist <https://www.inaturalist.org/> I use this photo identification app often. Snap a photo with your phone, upload, and will help you determine the plant/animal.

<https://www.inaturalist.org/pages/help#general1>

Wild Ones <https://midmissouri.wildones.org/>

Como Wild Yards Program through the Department of Sustainability & Conservation Danielle Fox, program leader.

<https://www.como.gov/sustainability/conservation/como-wild-yards-program/>

Ryan Lueckenhoff / private land management consultation from MDC

Last but certainly not least, this is so cool. The Boone County Assessor's office has aerial maps of Boone County that date back to 1936. Check out any address and how the landscape changed over the years.

Fascinating. https://maps.showmeboone.com/viewers/AS_AerialPhotoMapping_v1/

*hint: top right hand corner titled "Aerial photo" has a drop down menu where you can select the year to zoom in on the location on the map.

Thank You Note From MPF

Submitted by Becky

For convenience and to avoid confusion, I am the designated communication link with Missouri Prairie Foundation/Grow Native. Since we are not having regular lunches, meetings and outdoor activities, it is awkward for me to share physical mail from MPF. Here, I will try.

The following was a hand-written note on a card with a photo by Russel Kinerson taken at Linden's Prairie of a dickcissel sitting on a *Pycnanthemum tenuifolium*.

19 October 2020

"Dear Hawthorn Chapter,

I want to thank you on behalf of the Missouri Prairie Foundation for your donation of \$500. Your support in September 2020 helps us with many activities and management programs. I appreciate the support you have given to our great organization.

Thanks again for being a supporter of Conservation for Prairie!!

David Young

President"

David Young also signed a longer form letter on 12 October detailing uses of the money in all activities and management, and our option to take a tax deduction - which is not applicable.

Since a strong part of the MONPS mission statement is education, we urge you to take advantage of this donation which gives Hawthorn members privilege to attend [for free or the 'reduced member price'] whatever webinars or activities available on the MPF website www.moprairie.org . Past and future webinars and virtual prairie tours are posted on the MPF website. GN annual convention is the next Zoom presentation 4 November. We have worked to obtain funds for this donation by selling plants, books and t-shirts. It would be a pity to have the donation wasted due to lack of members' attendance.

Topics for This Years' Petal Pusher

the state MONPS newsletter

You don't need to be an expert, but if you have good repeatable experience as a naturalist on any of these subjects, you are welcome to offer your knowledge to the rest of us.

If we have members who are experts on any of these topics, Michelle Pruitt [on masthead] is willing to do an amateur proofread for you if that would be helpful.

The submission deadline for the Jan/Feb issue is 20 Dec. ALWAYS - 20th of even numbered months. If you don't understand subjects, parameters, or submission format, contact Michelle Bowe, PP editor MBowe@MissouriState.edu.

Nov/Dec What's in a name? Common vs. Scientific

2021 Jan/Feb Ecoregions of Missouri

Regular Recurring Columns:

Conundrum Corner Contributors needed!

Invasive Tip of the Month Tips to identify and eradicate invasives, with a different species in each issue. Contributors needed!

Other Recurring Columns: **Casey's Kitchen** Casey Burks
Name Change of the Month Justin Thomas. Other volunteers welcome.

Poetry Corner or Quotation Corner Send suggestions for poems or quotes for inclusion. Note that for poems, we must have permission from the publisher.

Where are we going Features we will see on the next field trip. Malissa Briggler?

And here's where you can become newsletter famous by submitting your questions: <https://monativeplants.org/ask-a-question>.

Ask a question Questions from website, answered. Facilitated by Jerry Barnabee

The following is NOT PARTISAN

It is VERY IMPORTANT to vote in this cycle. PLEASE DO NOT pass up this voting cycle because you are afraid of contracting covid19. There are several ways to do it safely.

If you are afraid to go in person to your polling place, you need to search for options for voting thru your county courthouse.

When you go to the polling place, wear a mask, use your hand sanitizer when going in and when leaving, maybe take your own marking pen. All polling places will monitor human movements.

I went to a remote station outside. It was very fast and safe.

PLEASE JUST VOTE!

Please Step Forward For Service

Please contact one of the officers ready to volunteer a little time to a very good environmental and educational service. We need people to serve as officers, to grow plants for fundraising, and we need people to man our information booth at events such as Earth Day and Bradford Plant Sale. There are opportunities to volunteer caring for native gardens in public places. We don't deliver printed copies by mail unless you insist. Please consider requesting email delivery; it saves us money for the Grant Program.

___ Regular (\$16.00)*

___ Student (\$11.00)

___ Contributing (\$26.00)* designate chapter or state

___ Paper postal service (\$10)

___ State Lifetime (\$200) Might be raised for 2020

___ Chapter Lifetime (\$120 – you must also be a member of the state organization to utilize this option)

___ Chapter only (\$6.00 – this is for members who already belong to State and another chapter).

*Includes both Chapter (\$6) and State (\$10) dues.

Make check payable to:

Native Plant Society. Send check and this form to: Paula Peters, 2216 Grace Ellen Dr., Columbia, MO 65202

MEMBERSHIP FORM

**Missouri Native Plant Society-
Hawthorn Chapter**

July 1 through June 30. Dues are Due NOW!

Name _____

Address _____

Phone: Evening _____

Day or Cell _____

Email: _____

Method of receiving chapter newsletter:

(circle preference)

Email

Regular mail

As of July 2018, Petal Pusher printed on paper in grayscale, sent by post, will cost an additional \$10 more than standard membership. Email delivery brings you color photos, and instant delivery. It saves natural resources, pollution, and MONPS and your money.