



# Missouri Native Plant Society Hawthorn Chapter Newsletter

Volume 35, Number 12

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The Hawthorn Chapter of the Missouri Native Plant Society Newsletter is published monthly. Send submissions by the 26<sup>th</sup> 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.

December 2020

## Future Activities Calendar Announcements

### Opportunity knocks!

### It is time to elect a new Hawthorn Chapter President and Secretary.

We are especially seeking good candidates for President as current President Cindy Squire will be stepping down December 15. Service as a Hawthorn NPS Officer is a great way to learn more about native plants, meet fellow enthusiasts, and work with some fantastic people! Previous experience is not necessary – just a sincere interest in learning.

Each officer serves for a two-year term beginning in January. The President presides over meetings, assigns Committee members, and handles other Chapter business as it may arise. The Secretary attends meetings and records chapter business discussed in the meeting and prepares meeting minutes for publication to membership.

Candidates will be announced at the December 14 virtual meeting, a link to a doodle poll for voting secret ballots will be shared that evening for voting until December 19, and the new officers will be announced via email after the polls close. Officer terms will begin January 2021.

If you would like to be a candidate for either President or Secretary, please contact a member of the nominating committee: Michelle Pruitt [michelle.pruitt@gmail.com](mailto:michelle.pruitt@gmail.com) or Jayne Young [youngjayne70@gmail.com](mailto:youngjayne70@gmail.com).

**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 14 Dec 2020 Becky will offer a presentation of an overview of Pollinators and Their Needs.**

This will include a short list of plants that butterfly larvae need, identification of bees, wasps, flies, beetles and resources. Then a brief understanding of four different habitats, some of the plants that prefer them. And a short tutorial of the easiest way to install a garden. It would be a good idea to be ready to take notes.

You will be offered a link to the Zoom a few days before the presentation. Mark your calendar and watch for the email.

Becky, as a college [BFA from KU] retreat, did science classes starting at Longview CC in KC; then finished a BS at UCM at Warrensburg. After a research summer in Kenya she finished a MS at UCM winning the best thesis of 1997. She has worked for DNR, MDC, MU, USFS, USDA-NRCS doing field surveys and research across the state. After the end of the MO Native Ecotype Program in 2007, she developed a potted native plant nursery at her home to benefit plant sales for Hawthorn Chapter, a wetland/pond plant nursery, and offers consultation in habitat enhancement.

### 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.

## 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](mailto:birdsafekc@burroughs.org) to discuss solutions.

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>

Please patronize activities and opportunities offered by Missouri Prairie Foundation and Grow Native [MPF/GN]

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](http://www.moprairie.org) . Past and future webinars and virtual prairie tours are posted on the MPF website. GN annual convention is usually the first Wednesday of 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.

Thanks to Louise, Michelle and Carol-Leigh 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].

Activities are on hiatus for the winter, so sign up now to know when and where to get started. 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. [langtrea@gmail.com](mailto:langtrea@gmail.com) call or text 864-7647.

Carol-Leigh would like to say something about **Missouri River Relief Program**, and about the two River Clean-Ups

I've participating in since I joined the crew: St Charles Clean Up a couple weeks ago - 6 day clean up, and the Cooper's Landing this past weekend 5-days. I'm really impress with this group.

Exerpt from the Columbia Tribune 23 Oct:

<https://www.columbiatribune.com/story/news/local/2020/10/23/volunteers-brave-cold-and-rain-clear-trash-missouri-river/6008621002/>

"On the day that Carol Leigh Brack-Kaiser turned 76, she set out on an adventure. The Columbia resident started her journey in Peru, Neb., and kayaked along the Missouri River. Over the course of 12 days and 542 miles, she ended up at the confluence of the Mississippi River. For Brack-Kaiser, only one thing stood in the way of calling her journey a flawless trip -- the trash that lined the rivers along the way. She was inspired to make a change.

Fast forward to two months later. Brack-Kaiser sheltered in place Friday morning from the rain falling down upon the Cooper's Landing Campgrounds and Marina. Along with around 15 other volunteers, she would weather brisk temperatures and cold rain to participate in a trash pickup project hosted by Missouri River Relief.

"This group is the most generous, thoughtful, kind to work with," Brack-Kaiser said. "They are really fantastic, so I'm excited about working with them."

The article goes on to explain the mission of MO River Relief during Corona Virus precautions, spending 3 days to spread out fewer volunteers, rather than just one day with 250 volunteers, as in the past. We still collected tons of trash, tires, refrigerators, and more.

I spent 5 days with the crew at Cooper's this past weekend during the 18 miles of River Clean-up, 6 days with them cleaning up 10 miles of River at St. Charles a few weeks ago, and helping out at the "Race to the Dome" which they sponsored. The first day we set up camp, second day we scout the River to find the hot spots of trash to which to send groups of volunteers the next three days, then the last day clean up camp. Due to the forecast of snow on Monday, we hurried the process and finished cleaning up camp at Cooper's on Sunday - hence only 5 days for this last clean-up.

Another article about the Missouri River Relief organization was in the Missourian on Sunday.

[https://www.columbiamissourian.com/news/local/missouri-river-reliefs-clean-up-event-promotes-environmental-awareness/article\\_3c14006c-1622-11eb-b515-334206d3e32f.html](https://www.columbiamissourian.com/news/local/missouri-river-reliefs-clean-up-event-promotes-environmental-awareness/article_3c14006c-1622-11eb-b515-334206d3e32f.html)

I did earn my Master Naturalist Certification, class of 2019, and have been inspired by that group to volunteer in cleaning up invasives at several locations. I've also given two presentations on dyeing with Missouri dye-plants for the group.

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



## 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 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.](#)



## Invitation from Deer Creek Watershed Alliance to participate in another Root Docking Workshop You can also keep up with Deer Creek Watershed Alliance on [Twitter](#) or [Facebook](#).

Please consider joining our friends at The Open Space Council for the St. Louis Region for this exciting, hands-on root docking training workshop

**Resources** offered in Becky's program on **pollinator gardening** are as follows:

- All of those in Emily's list below
- Xerces Society <https://xerces.org/> Extensive, well designed site. Pollinator monitoring guide: [https://xerces.org/sites/default/files/2018-05/16-010\\_01\\_XercesSoc\\_Citizen-Science-Monitoring-Guide\\_Upper-Midwest\\_web.pdf](https://xerces.org/sites/default/files/2018-05/16-010_01_XercesSoc_Citizen-Science-Monitoring-Guide_Upper-Midwest_web.pdf) and many more!!
- Plant Conservation Alliance [PCA] has a good site and offers free announcements about research and restoration. <https://plantconservationalliance.org/about-us> The **Plant Conservation Alliance** (PCA) is a public-private partnership among 12 federal agency Members and over 350 non-federal Cooperators that share the same goal: to protect native **plants** by ensuring that native **plant** populations and their communities are maintained, enhanced, and restored. Join the PCA Email List
- [Field Guide to Insects of North America](#). Kaufman. Houghton-Mifflin Pub.
- And you can search anything on line now. **You will get more accurate results by searching with the scientific nomenclature.**



**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/) <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/](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.

on Wednesday, December 9, 2020 at the Al Foster Memorial Trail. There will be two shifts from 10AM - 12:30 PM OR 1:30 - 4PM. Space is limited to 20 people for each shift. All tools and equipment will be sanitized between shifts of participants.

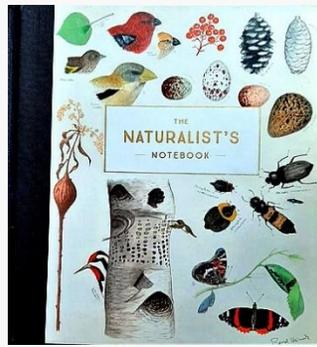
Social distancing must be observed throughout the entire workshop and face masks are required.

Workshop participants will learn about the advantages and benefits of the method, how to properly and safely use the tools needed to conduct root docking, and have the opportunity to practice the method in the field on the Al Foster Memorial Trail. Attendees must be 16+ years of age to participate. Registration is required - please register at: [rootdocking2020.eventbrite.com](https://rootdocking2020.eventbrite.com). Special thanks to Great Rivers Greenway, the L-A-D Foundation and Open Space Council members for their support!

Please contact Caitlin Zera, Program Manager, The Open Space Council for the St. Louis Region, at 314-835-9225 or [caitlin@openspacestl.org](mailto:caitlin@openspacestl.org) if you have any questions or need any more information.

**Note, volunteers should:**

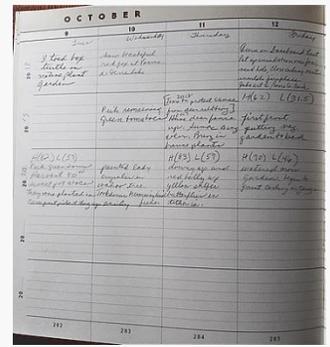
- Follow all CDC recommended guidelines for safety and prevention of the spread of COVID-19
- Work in small groups of less than 10 people
- Social distance six feet or more from non-household members maintained at all times
- Frequently wash hands with soap and warm water for at least 20 seconds before, during, and after your activity > > > >



# PHENOLOGY

by Louise

**Phenology** is the close study of nature's rhythms. It is becoming more popular to keep a journal to track changes around you so you can have a close up look at how nature is actually changing in your yard or neighborhood. Although I never



thought to call it phenology, I have been keeping a 5 year calendar for the past 3 years. This calendar gives me a daily look at what happened on each date every year.

I received a Christmas Present in 2018 of the book, The Naturalist's Notebook by Wheelwright and Heinrich. This book is full of wonderful observations of nature and is delightfully illustrated in hand drawings and watercolors. The reason it sits on my shelf nearby is that I consult it nearly daily to write down something that happened in nature that day. For example, what bloomed in the garden, what type of unusual bird did I see, etc. This year I also started writing down the high and low temperatures each day and the rainfall or snow depth. In the Spring I record soil temp. Don't get me wrong, some days are blank, as I am not compulsive enough for daily.

If you have never seen a 5 year calendar, I have included a page from the journal. It is a very handy way to track seasonal change and now, more importantly, climate change. I can tell you that this is the first year in 3 years that we have not had snow by today (Nov. 23). Some years, plants bloom almost exactly on the day they did the year before. My spider lily always starts to bloom on August 2. Other plants are in a range. Although we have some habitat for turtles, I usually only see one a year and it is always within a day of the year before.

I live about 1 mile as the crow flies from Jefferson Farm and Gardens weather station which publishes daily high and low temperatures, and rainfall and soil temp. I use their data for my records. I have my own rain gauge so I use it, as rain can be pretty localized. I downloaded their website to my home screen for easy access to data. Their site is [agebb.missouri.edu/weather/realtime/columbiajefferson.php](http://agebb.missouri.edu/weather/realtime/columbiajefferson.php).

I would encourage all of us to become climate change trackers in our local ecosystem. Another book that covers this subject is Ground Truth: a Guide to Tracking Climate Change at Home by Mark Hineline.

The Naturalist's Notebook is available from [storey.com](https://www.storey.com) for \$19.95. It makes a lasting Christmas gift and launches the use of the 5 year calendar. The people at Storey were kind enough to give me a free download of the five year calendar to print my own. I will use this when I finish my first 5 years. I am including the download as that may be all you are interested in having. It is a lot of pages, but remember it lasts 5 years and there is not a lot of ink on any page. Print it two sided. Punch holes put into a binder of some sort. Here is the link to the calendar:

[https://www.storey.com/wp-content/uploads/2020/02/Naturalists\\_Notebook\\_Calendar\\_01.pdf](https://www.storey.com/wp-content/uploads/2020/02/Naturalists_Notebook_Calendar_01.pdf)  
**These records are kept by Budburst on line <https://budburst.org/> They need your data!!!**



- Apply sanitizer (at least 70% alcohol) fully to hands and rub until completely dry
- Cover nose and mouth with a cloth mask at all times
- Volunteers should NOT attend if they meet any of the following criteria:  
 If participants feel sick, have a temperature of higher than 100.4 degrees F, or have had COVID-19 related symptoms in the last 14 days (dry cough, fever, shortness of breath, chills, headache, sore throat, loss of taste and smell, or any combination thereof)
- If participants are caring for a loved one, live with an individual that is high-risk for infection, or have been near someone who is infected with COVID-19
- If participants have traveled to a hot-spot area according to [Harvard Global Health Institute's COVID Risk Level Map](https://www.hsni.harvard.edu/covid19/risk-level-map/), a foreign country, or have recently been on a cruise.

# 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 - 20<sup>th</sup> of even numbered months. If you don't understand subjects, parameters, or submission format, contact Michelle Bowe, PP editor [MBowe@MissouriState.edu](mailto:MBowe@MissouriState.edu).**

## 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

# 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.**