



Newsletter

Volume 37, Number 10

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The Hawthorn Chapter of the Missouri Native Plant Society Newsletter is published monthly. We would like to read about announcements, impressions, species accounts, photos, poems, links to scientific articles or other creative nature writing **from you, too**. Send submissions before the 26th of every month to:

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This is the 37th year Hawthorn has supplied a newsletter to chapter members.

October 2022

Future Activities Calendar

Our traditional meeting time is second Mondays at 6:30.

And social lunches are third Thursdays 11:30.

Be aware that any time weather moderates, we will announce a guided, group field trip only a few days in advance. In all cases dress and supply yourself for a few hours in a remote off-trail location. As weekends are usually over-booked, there might be an option of a weekday-evening fieldtrip depending on weather and daylight.

Welcome to our new members Steve Buback, Julie Peterson, Katherine Dodig

Thanks to Joanna, Lea and Louise for their submissions.

Thanks to Elena for offering her yard for our next meeting.

Thanks to Michelle for proofing the newsletter.

DUES ARE DUE

Only half of our chapter members have renewed. Be patient as state is trying to coordinate a new automated system. Apparently the automated system is difficult to install. **If you are inclined to renew - Please do so ASAP.** If you double-pay, you will be credited for 2 years. Pay on the MONPS website, or print and fill in the last page of this newsletter, then send with a bankcheck by post to <-Diane Privitt: form and address [again] on last page; or write the usual contact info on another piece of paper. If we don't get your payment in October, I will send you a personal reminder.

1 Oct, Saturday, 10am to 3pm Chestnut Festival

Our booth needs to be set up before 10am and we can break down at 3pm. If you have any desire to visit with us, buy some plants or trees, or even help us talk to customers, please come to our booth.

We are looking forward to seeing you at the 16th Annual Missouri Chestnut Roast Festival this Saturday, October 1! You are receiving this message because you registered to be a vendor/exhibitor at the Festival.

The Festival starts at 10:00 am and ends at 3:00 pm. You may arrive at the Horticulture and Agroforestry Research Farm (10 Research Center Rd, New Franklin, MO 65274) anytime between 8:30 – 9:30 am to set up your booth before guests arrive.

If you have the chance, we invite you to share about the Festival on social media and within your networks this week. Please tag us if you share anything on Instagram (@MUAgroforestry), Facebook (@The Center for Agroforestry), or Twitter (@MUAgroforestry). Here is the link to the Facebook event: <https://fb.me/e/1G6sEPHrj>

10 Oct Mon 5:30 to dark. Hawthorn Chapter Meeting:

Pot luck dinner outside in Elena's yard 2815 N Oakland Gravel Road. The restrictions for food are that all ingredients must be originated from the Western Hemisphere. In other words – Native meat, fruits, and vegetables that grew here more than 400 years ago. You need to do some research. It will be a great learning experience. Please bring your food dish, serving spoon, personal plate and utensils, and a chair.

The only business is to decide where/how to hold meetings thru this winter.

21 Oct Thursday Lunch 11:30: we enjoyed First Watch so much we would like to meet there again [First Watch Restaurant](#) at Stadium and Worley on the NW side of Columbia. Click on that link to see the location on a map.

GOLD LINKS

All new MPF/GN events posted here:

<https://grownative.org/events/>

Public Enemy #1



I have killed six this fall. PLEASE be aware and act.

Perfectly camouflaged, this oriental mantis waits on flowers to eat EVERYTHING that lands on it: all beetles, butterflies, bees, other mantids, hummers, and finches who come for seed. It is imperative to rid your area of this ecological menace. Catch and kill the bird-sized adults. Egg cases look like a tan foam golf ball stuck on any vertical twig or wire. Put them in a jar over a year, or soak them in something flammable and light on fire to be sure they are dead before disposing in the trash.

Primary reasons to NOT buy peat based soil: it's a high carbon bank and it is non-renewable.

Sign up for MO Prairie Journal

<https://moprairie.org/mission/missouri-prairie-journal/>

Be sure to check on the MPF/GN site [under Activities](#) for webinars before **alternate Wednesday afternoons at 4pm**. Recent topics were butterfly & moth identification, and citizen science projects. Our chapter pays to be a member so these on-line activities are free to you as a member. However, if you feel they are giving you a good education, a donation is welcomed.

[Next MPF/GN webinars 4pm](#)

September 28: Grow Native! Master Class: [MPF Master Class: Dazzling, Daring, Aerial Beauties: Dragonflies](#)

--October 12: Grow Native! Webinar: [Dicamba and 2,4-D: Old Herbicides Causing New Problems](#)

--October 26: Grow Native! Master Class: [The Seed Cycle: Native Seed Collection, Stratification, and Propagation](#)

--Adopt a [Regal Fritillary Butterfly](#) or a [Brown-Belted Bumble Bee](#) and help protect prairie.

ANNOUNCEMENTS

Congratulations to Louise!

Hawthorn awarded a Blazing Star at the Meeting 12 September

Hawthorn Chapter thanks Louise Flenner for her ongoing reliable presence as a corner stone of our mission and activities.

Louise has been a valuable member by helping the chapter to enlighten the public about Native Plants. She is equally involved with Hawthorn and WildOnes and coordinates appropriate activities.

She has opened her land converted to natives for botanizing tours.

Among her invaluable contributions have been workshops and tours imparting her vast self-taught study of Bryology. And she has taken responsibility for three public native garden areas: Forum Trailhead, Capen Park, and Epple Field, developed them into areas of public interest with a volunteer network.

And not the least – Louise has been reliable behind the scene to coordinate and supply educational materials for Hawthorn events.

VOLUNTEERING OPPORTUNITIES

CPS Outdoor Classrooms

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 last summer].

Activities are announced weekly, so sign up now to know when and where to get started. Lea 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 call or text 864-7647.

If you ever want to participate in these activities, please contact Lea at langtrea@gmail.com. Photos of these projects are in a Powerpoint I did last year: [Lea's Outdoor Native Plant Classrooms](#)

Find links to educational webinars every Wed afternoon on the MPF site.

Here is a link to a

Missouri Bee Identification Guide

put out by St Louis Zoo (Edward M. Spevak), and MDC (Michael Arduser)

The presentation at the Jan meeting was about bumble bees; Emily found the link to watch the [PBS Nature program about bees](#).

Jarrod Fowler (with a little bit of funding from us[PCA] and the FWS) has created

a Bumble Bee

Plant Finder [Sent to me from PCA listserve 16 May 22]

Quoting Jarrod: "The Bumble Bee Flower Finder helps you discover the **best native plants for bumble bees from the Eastern United States**. Find flowers for habitat gardening, conservation planting, and bee monitoring. Under Construction. Email: info@bumblebeeflowerfinder.info."

Geared towards those who need to plant plants. This guide will be useful to those of you who are landscapers, architects, nursery people, gardeners, botanists, and bumble bee researchers who need to explore plants.

Karen wants to share:

This might be a good link for the Hawthorne newsletter. It is very readable. Good for those who aren't botanists. I got this link when I was taking a bumblebee class via zoom. [Botany primer](#)

MO Botanical Symposium Convenes Again!

Registration is open for the [2022 Missouri Botanical Symposium](#)! The symposium will be held on November 4, 2022, on the campus of MST in Rolla, Missouri. Registration deadline is October 21st. The symposium is sponsored by NatureCITE and the Missouri Native Plant Society.

The morning will start with a poster session and social hour. We'll follow the poster session with seven speakers, covering a broad range of botanical and ecological topics. You can [view the agenda here](#). Lunch is included, and there will be an open mic opportunity as well, so don't forget to bring any relevant announcements or handouts you'd like to share with the Missouri botanical community such as grants, job opportunities, upcoming events, or other such topics. Please keep any announcements under one minute long.

You can [visit the website to register](#) and follow the symposium on [Facebook](#) for updates.

We hope to see you there!

Dana Thomas, President NatureCITE

1530 E. Farm Road 96
Springfield, MO 65803
317-430-6566
www.botanytraining.com

Ed note: I have attended this symposium three times and learned something extraordinary every time! Let me [Becky] know if you want to register to go, too.

Sinkhole Pond in Central Missouri: A botanical and geological gem on private land

by Joanna Reuter

Click here for the [iNaturalist record](#) of the trip, and the [eBird checklist](#).

A group of enthusiastic botanists, naturalists, and geologists converged on September 10 for a trip to a privately owned sinkhole pond in north-west Boone County. The landscape is formed on the Burlington Formation (the same limestone that hosts the Devil's Icebox cave system at Rock Bridge State Park), and includes a collection of sinkholes, several of conical shape dropping roughly 30 feet below the surrounding landscape. Some of the sinkholes have exposed bedrock at the base, and temperature-moderated air flow hints at a cave system lying below.

The botanical highlight, though, is not an open sinkhole but one that became plugged and now forms a **very rare-in-this-region natural pond** that largely fills the depression in which it sits. At the surface, a substrate of rich organic muck supports a diversity of interesting sedges and other plants that are characteristic for sinkhole ponds, but some of these species are otherwise unknown in central Missouri; these include [Carex decomposita](#) (cypressknee sedge) and [Carex comosa](#) (bristly sedge). The dry weather at the time of the trip meant we could venture pretty far into areas that are usually too wet to access.

Seeds of species inhabiting sinkhole ponds can be transported by waterfowl, but a big question is when. Paul Nelson, author of *The Terrestrial Natural Communities of Missouri* and an attendee of the trip, made a strong case that these species are indicative of a long history of natural establishment.

The pond is reminiscent of sinkhole ponds in the southern Missouri Ozarks, but it is very much a geographic outlier, and is distinct in its geomorphic history for being in the glaciated part of the state, as evidenced by occasional [glacial erratics](#) (or, as I like to call them, "invasive rocks"). The presence of glacial ice here during the [Pre-Illinoian glaciation](#) some hundreds of thousands of years ago puts one firm boundary on the potential antiquity of this pond's floral assemblage. Though Missouri remained free of glacial ice during the most recent glacial advance, the climate was radically impacted and wind-blown loess was deposited across the landscape—a good 10 feet or more being

Elena offered to share this article on [butterfly identification](#) from MPF.

Excellent info from GN

[Native Landscape Care Calendar](#) - for pros and homeowners. Also - a brief [one-page care overview](#)

And just added:
extensive [Butterfly Host Plant list](#)

How Does a Caterpillar Turn into a Butterfly?

Originally posted 12 Aug 2012 in [Scientific American](#)

From NatGeo Newsletter on line 23July22

Why [tick-borne diseases](#) have reached 'epidemic proportions'

"Infections have more than doubled in the U.S. since 2004, afflicting many patients with long-term memory problems, overwhelming fatigue, and even red-meat allergies. . . " I hope this alerts you to [use repellent thoroughly and without fail.](#)

MO Tick Study Interim Results

MDC and A.T. Still University in Kirksville
[Get more information and images](#)

Link to

[Braiding Sweetgrass](#) by Robin Wall Kimmerer. If you want to assist Robin's cause with a purchase of one or more of her books, please do. If you cannot afford this

visible at some of the neighboring sinkholes. It's a reasonable guess that the pond's botanical development has occurred since that time period.

How this sinkhole in particular got plugged in the first place, and why its ecosystem survived human disturbance, are interesting questions. Those questions may be challenging to ever answer, but answers to other questions about the ecological history of the area may well be contained in the pond's sediment and the pollen therein. Perhaps a researcher can be enticed to core and study this fascinating pond.

The property has other highlights as well, all well worth seeing in person when future opportunities arise. Many thanks to Paul McKenzie for organizing the event, to Brian and Susan Johnson for being excellent hosts, and to all participants for engaging conversation and information sharing.

News from Gardeners

Lea and Louise found some odd plants at the Capen mulch site garden. After asking some questions, they identified it as 'motherwort' from Eurasia. Here are the details of their research.

Lea writes that she doesn't think motherwort is a native plant and she is, of course, correct. It originated in Asia, came to Europe, and from there made its way to North America. It does attract pollinators, particularly bees. Although native plants are a better choice to plant for pollinators, this plant as a non-native wildflower provides some resources where it volunteers itself in the wild.

Louise writes: We got some great information on common motherwort (*Leonurus cardiaca*) also known as Lion's tail. Cheryl sent a link to Friends of the Wildflower Garden who maintain the oldest public wildflower garden in the United States. It contains the plants of Eloise Butler. I found this resource very interesting. Their site is [friendsofthewildflowergarden.org](#). Here is the link to [their information on motherwort](#).

Even if you don't want to read up on it, click on the link just to see the spectacular photos and the beautiful watercolor picture from 1886 of motherwort. The description also includes this intriguing quote:

Culpepper in *The English Physician* writes: "There is no better herb to take melancholy vapors from the heart, strengthen it, and make a merry, cheerful, blithe soul, than this herb. It may be kept in a syrup or conserve; therefore the Latins called it Cardiac. Besides, it makes women joyful mothers of Children, and settles their wombs as they should be, therefore we call it Motherwort. It is held to be of much use for the trembling of the heart, and faintings and swoonings; from whence it took the name Cardiac."

Ann sent another link that [discusses motherwort as a medicinal](#) and tells how to grow it, propagate it, and care for the plant. It also has good pictures. **It suggests cutting it back to 3'-5" after it finishes blooming to prevent seed spreading to the rest of the garden and beyond.** I think we will definitely do that at Capen. Right now it sits up on the hill that separates us from the mulch site and is not really a part of the native plant display, but the bees are all abuzz around it.

[Ed. Note: "wort" is the Old English word for flower. It is used frequently in common names.]

Did you know that the yellows and golds we enjoy on leaves during fall are always there?

From Smithsonian on line newsletter 22 Sept 2022

• They're just hidden in spring and summer by chlorophyll! [Discover more foliage facts](#), including why leaves change color, what conditions create the most vibrant display, and how trees prepare for winter.

"Ours is not the task of fixing the entire world all at once, but of stretching out to mend the part of the world that is within our reach."

— Clarissa Pinkola Estés

purchase at this time, [this link](#) is a gift of a free download.

Audubon e-newsletter 6 April 2022 offers an article for the uninitiated on [the difference between native and non-native](#) and invasive – and many reasons why true native plants are better for the environment. And there are several follow-up articles with this page. You might want to share this link with a friend or neighbor who is unaware.

Info to identify invasive species: Maps for [142 individual species](#) in MO and descriptions for [25 species](#) have been combined by [MO Invasive Plants Task Force](#).

[NatGeo newsletter](#)
[Published June 10, 2022](#)



Amazing! Photographs By Jaime Rojo

After sifting through 25 years' worth of data, a team of scientists have come to a rather surprising conclusion—the [monarch butterfly](#) population seems to be *increasing*.

But this is not time to relax all efforts to nurture monarchs and all other insects.

NYTimes
features native
annuals at
[Botanical Garden](#)
[at Kingsville MO.](#)

Links from Xerces Society

[Ed note: I exchanged several messages with Melissa, the new public relations person with Xerces. She wanted to share these links with you; The text is copied from her email. And she sent us a box of wonderful handouts for the booth!]

[Roadside Habitat For Monarchs: Milkweeds Of KS & MO](#)

[Habitat Assessment Guide For Pollinators In Yards, Gardens, And Parks](#)

[100 Plants to Feed the Monarch](#)

· [Xerces Bring Back the Pollinators](#). Join thousands of community members in taking our pollinator protection pledge. We have loads of resources to help you make room for pollinators in your community in our regional [Pollinator Conservation Resource Center](#).

· Check out our [community science](#) opportunities. From Bumble Bee observations to our new Firefly Atlas, we have something for everyone.

· We have lots of webinars coming up and you can browse them all at [xerces.org/events](#). On May 12th, Matthew Shepherd, Xerces Director of Outreach & Education will host a wonderful webinar called [What Bee is That? An Introduction to Commonly Encountered Bees of the US](#).

· [If you missed a webinar, don't worry you can view most on our YouTube channel.](#)

Bison On Prairies

Read about research published in Proceedings of the National Academy of Sciences about the [positive impact of bison on prairies](#).

Included is a critter-cam video at Dunn Ranch near Eagleville MO.

If you subscribe to NatGeo magazine, you can get these on-line stories by filling in your member number on your mailing envelope in the prompt box. Otherwise the on-line subscription is very affordable.

Wildflower Apothecary

Read the full articles from YES Newsletter.

A panacea garden awaits our next steps. In early summer, [we introduced](#) seven traditionally healing wildflower plants and how to invite them into our gardens. Now is the time for harvesting and transfiguration.

[Before foraging and formulating begins](#), good harvesting ethics should be addressed as a reminder that reciprocity begins with mindfulness. Respectfully removing parts of plant communities begins with the harvester making an offering. This can be a prayer or a song or maybe tidy up the space around the plant. Also, don't take too much, make it look like you were never even there. Hold good thoughts and consider how you want people to feel when they experience your finished product. Click on the links above to absorb the whole thought.

If these species and uses have piqued your interest, you will probably want to download the bible on the subject: [Handbook of Medicinal Herbs, James A. Duke](#)

COVID in Wildlife

If Omicron virus has been found scientifically in whitetail deer in AR, IL, KS & OK, [[NY Times 7 Feb 2022](#)] it is safe to assume covid is in whitetail here in MO. Covid ran rampant throughout the mink industry kennels in OR/WA and China. All of those minks were destroyed in summer when their hides could not be salvaged. Many different animals in zoos and home pets have contracted covid. Latest news is that hundreds of covid variants are evolving – some easily passed to wildlife. One way to keep covid, tick diseases [see tick article in bulletin board in left column], and cwd in check is to kill deer.

Please encourage anyone who hunts to kill all deer that is legally possible as herds can triple every year [2 fawns per doe]. Deer season is 15 Sept thru 15 Jan. Plan your outings so timing does not bother hunters; midday usually works. Wear orange.



Butterfly Webinar Offered by Grow Native

originally shown 31 August 2022

If you would like to revisit any parts of the webinar, or were unable to attend live, the entire recording is available on our YouTube channel, [view here](#). Our free webinars are posted publicly on [our YouTube channel here](#).

Here is a list of resources mentioned during the presentation as well as others for those wanting to learn more:

- Admission to [The Roston Native Butterfly House](#) admission is free.
- Learn more the importance of insects to the food web and how you can help support them from [Homegrown National Park](#).
- See information about raising butterflies at Todd Stout's website [raisingbutterflies.org](#)
- Past issues of the *Missouri Prairie Journal* include numerous articles on moths and butterflies, including [Grow Native!: Fantastic Moths and Their Woody Host Plants](#), [Prairie Moths](#), and [Prairie Paparazzi: Documenting the Regal Fritillary](#).

The Grow Native! program provides extensive resources about native plants and their effective use in urban, suburban, and rural developed landscapes, including a [native plant database](#), [a list of butterfly host plants](#), and a [Hosts with the Most](#) informational card.

Topics for This Years' Petal Pusher

the state MONPS newsletter

Petal Pusher Topics for 2022

Due date	Pub Date	Theme	Contributors
Oct 20	Nov 1	Invasive Species Control for Winter	-Malissa
Dec 20	Jan 1	MONPS Chapters	-Dana Thomas (develop questionnaire)

Send submissions attached in Word format.

Send photos attached separately in jpg format.

To: Pam Barnabee pamela.barnabee@gmail.com

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 curious about any of these topics, Michelle Pruitt [michelle.pruitt@gmail.com] is willing to do an amateur proofread for you if that would be helpful. Send to her early!

ALWAYS - 20th of even numbered months. If you don't understand subjects, parameters, or submission format, contact Michelle Bowe, PP editor

MBowe@MissouriState.edu.

- Potential Emerging Invaders. **Have you seen a new plant invader?** Someone from MoIP as contributor; Malissa Briggler volunteered. Any one of us could study invasive plants; MPF Journal featured invasives during 2020. Just search 'invasive plants' and pick one to report on.

- Favorite Natural Areas. Suggested to also have chapters solicit articles from their members. **This means YOU can write about your favorite Natural Area**

- Better Know a Genus. These are species accounts. You observe/research a species or genus and describe the whole life cycle including preferred habitat and vectors/predators.

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 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, to man our information booth at events such as Earth Day and Bradford Plant Sale, and to care for native gardens in public places.

MEMBERSHIP FORM

Missouri Native Plant Society
Hawthorn Chapter

How were you attracted to join MONPS?

Membership runs from July 1 through June. You must be a member of the State Missouri Native Plant Society (MONPS) in order to join a chapter. You may send state and chapter dues to our membership chair, Diane Privitt.

Please check membership category you desire:

Minimum required annual membership per household is \$10 for students or \$15 for non-students [state+chapter]

*These amounts include both state and chapter dues

- _____ Student \$10.00*
- _____ Goldenrod \$15.00*
- _____ Sunflower \$30.00*
- _____ Blue Bell \$55.00*
- _____ Blazing Star \$105.00*
- _____ Surcharge for paper state Petal Pusher by mail (+\$10.00)
- _____ Chapter only \$5.00 – this option is for members who already belong to State and another chapter
- _____ Amount Paid

Make checks payable to:

Missouri Native Plant Society

Mail payment and this form to:

**Diane Privitt
3810 Koala Dr
Columbia MO 65202**

Name: _____

Address: _____

Telephone: _____
Home _____

Cell _____

E-mail: _____

Chapter newsletters and messages will be sent by email