



Missouri Native Plant Society Hawthorn Chapter Newsletter

Volume 37, Number 5

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

May 2022

Future Activities Calendar

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

We decided to NOT have an official meeting in May because of all the other activities.

Watch your email for announcements.

Sun May 1: 2pm Celebrate May Day and spring flowers with a mosey at Pinnacles Park. Joanna Reuter will lead us. See full description below.

Wed May 4: 3 - 6 pm, Songbird Station in Columbia. Hawthorn Chapter will sell native plants in the parking lot. We need a few volunteers to set up early, talk to people & sell plants, and break down after.

Sat May 21: 10 am to 1 pm, Bass Pro Shop on North Hwy 63 in Columbia. Multiple vendors of native plants. We need volunteers to set up, break down, and work booth.

MONPS Weekends in 2022: Dates, Locations, Potential Mosey Sites

Summer June 3-5 Festus: Don Robinson SP, Valley View Glades, Hickory Canyon, Victoria Glades, Washington SP. Consult the next Petal Pusher for details.

Fall September 16-18 Eagleville: Dunn Ranch, Rolling Thunder Prairie (IA)

More details can be found in upcoming Petal Pusher and later on the MONPS website. These weekends are very educational and FUN!

Be sure to check on the MPF/GN site [under Activities](#) for webinars on **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. MPF is offering a [bioblitz 4-5 June](#) at a new, unnamed, prairie in St Clair County near Deep Water.



Announcements

Thanks Nadia for giving our program 11 April.

Thanks to Joanna for offering to be lead on our May Day mosey.

Thanks to Christi, Elena, John, Louise, Bob, Nadia, Carol-Leigh, Becky, and Lea for helping at the Earth Day Fair Booth; and Welcome to our new members from Earth Day:

Jennifer Hollman and Lesley Flaherty, both from Columbia.



May Day at Pinnacles

Because of all of the recent rain, we will avoid stream crossings (except via county road bridge). We advise choosing shoes with good ankle support and tread (such as hiking boots). We will be on mostly easy trails, but we plan to traverse one short section of steeper, rocky trail (just up a slope—not out onto the Pinnacles rock ridge), so please bring a walking stick if desired. We scouted on Tuesday, and there are many aspects of Nature to learn right now! You may stop or proceed at any point.

Date: Sunday May 1

Time: 2 p.m. to approximately 5 p.m.

Location: [Pinnacles Youth Park](#), northern Boone County. Meet at the [parking lot](#).

Consider bringing: walking stick, water bottle, hand lens, binoculars, tick protection

Leaders: Joanna & Eric Reuter, joanna@cherthollowfarm.com, 573-474-0989 (home), 573-529-2983 (cell, use day-of only).

Pinnacles Youth Park is a designated Missouri Natural Area with fascinating geology and diverse flora. Many interesting plants are accessible from trails that climb moderate hills and stay on dry ground. Though the focus will be on plants, we're also happy to talk geology, look at birds, and do whatever other naturalizing presents itself.

GOLD LINKS

All new MPF/GN events posted here:
<https://grownative.org/events/>

Links from Joanna's Program

The iNaturalist website has a great "help" page for those new to iNaturalist. [View \(and join\)](#) the Missouri Botanists' Big Year 2022 project.

[Recordings of two iNaturalist webinars](#) are now available on the Missouri Native Plant Society's webinar page:

- iNaturalist as a Tool to Enhance Understanding of Missouri's Flora, presented by Joanna Reuter to the Hawthorn Chapter, February 2022
- Citizen Science with iNaturalist and the Missouri Botanists Big Year 2021 Project, presented by James Faupel to the St. Louis Chapter, July 2021

Save migrating birds from window strikes

<https://abcbirds.org/glass-collisions/>
<https://www.birdsavers.com/make-your-own/>

Primary reasons to **NOT** buy peat based soil:
[it's a high carbon bank and it is non-renewable.](#)

Bird-safe windows

Transparent, reflective glass confuses birds. Up to a billion a year in the U.S. die from collisions with glass—nearly half from hitting home windows. These DIY fixes discourage birds from trying to fly through windows: Mark glass with tempera paint,

Late April is entering tick season. We encountered surprisingly few if any ticks on our hikes last spring/summer at Pinnacles, but it is sensible to come prepared at this time of year. We plan to wear Rynoskin as a non-chemical form of tick protection. If you choose to apply bug spray when arriving, please be aware of the chemical sensitivities of others, and do so at a distance and downwind of other bystanders.

Also consider bringing a few dollars to drop in the Pinnacles Youth Park donation box to help support upkeep of this special park. The nonprofit that runs the park is currently fundraising for several significant infrastructure projects. See their website for more details: <http://pypark.org>.

RSVP isn't required, but we wouldn't mind receiving a brief email if you're planning to come, so we have a rough sense of how many people to expect. Email Joanna at joanna@cherthollowfarm.com

Dates for the following activities will be decided during appropriate meetings; all need discussion and agreement. **If you are inclined to have ANY interest in these activities, Please attend meetings to give us your opinion on this or other locations, dates and times.**

Joanna is offering to guide a second mosey to a near-by area:

Rocky Fork Lakes Conservation Area is dominated by land used for coal strip mining, but amongst the old mining scars are two patches of prairie with considerable diversity. The southern prairie is a new destination for this group. The hike of a bit over a mile each way is well worth the effort for the reward of visiting this biodiverse and beautiful prairie with species including wild indigo, wild quinine, compass plant, coreopsis, rattlesnake master, prairie blazing star, and more. June through August presents the best diversity here.

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](#)

Tick Study - Interim Results

MDC and A.T. Still University in Kirksville partnered in a new research study asking people to save ticks they encounter and mail them to the University. The ticks will be used for two-year scientific research study to help better understand the statewide distribution of tick species and the human pathogens they carry. [Get more information and images](#) **Since this is a 2-year study, you can submit ticks this year**

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. One way to keep covid, tick diseases, and cwd in check is to kill deer.

Please encourage anyone who hunts to kill all deer that is legally possible.

"We moved from being a part of nature to being apart from nature." David Attenborough

stickers, or tape, making gaps in the pattern no larger than 2 inches tall by 4 inches wide—or 2 inches by 2 inches for greater deterrence. The American Bird Conservancy has more ideas at

abcbirds.org/glass-collisions. A DIY approach to helping avert bird collisions: Create patterns on windows with tempera paint, stickers, or tape. <https://www.birdsavers.com/make-your-own/>

To help birds that've collided with glass, see if your area has a bird strike watch program. Audubon Society chapters have volunteers who monitor bird strikes and collect data that can be used to make cities and towns more bird safe.

Careful spring cleaning

Before firing up the mower or hedge trimmer, check grounds and shrubs for small animals, birds, and nests. If you find a creature needing relocation or help, search for a nearby animal rescue/rehab expert at AHnow.org.

Sign up for MO Prairie Journal

<https://moprairie.org/misison/misouri-prairie-journal/>
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](#).

It will be repeated on PBS, NOVA, Wed 4 May. This and Nature usually repeat the following Friday around noon.

"Go my Sons, burn your books. Buy yourself stout shoes. Get away to the mountains, the valleys, the shores of the seas, the deserts, and the deepest recesses of the Earth. In this way and no other will you find true knowledge of things and their properties." Peter Severinus, 16th. century Dane educator.

Earth Day Fair 22 April 22

I think most of us involved were holding our breaths: will it happen or not? The rainfall was so perfectly timed: it shut off as we set up. Then the sun came out right after the gates opened to the public. Christi said: "Thinking about going to Earth Day can be a bit daunting, but it was much fun. Nice spending time with everyone, interesting booth visitors, and I was glad I went."

There was a steady stream of people curious about what the members of a native plant society do. Some were very interested in learning more, so bought books. Two new members signed up on the spot. Some already had a clue, so more than half of the plants went to expand gardens around town.



The highlight of the day was the mommy monarch who spent nearly two hours laying eggs on a tray of swamp milkweed. It was truly an Earth Day miracle that she found the 8" plants in pots on the sidewalk in a totally sterile environment with so many people milling about! And all those eggs were disbursed around town with the plants.

<< Left: she is hanging just over the red pot
Right: she is just in front of the table leg >>
Christi's photos



P/G/T
PRAIRIE GARDEN TRUST



Time for a nature walk!

Spring is here and the Prairie Garden Trust is welcoming visitors again!

To [schedule a visit](#), just let us know when you'd like to come and how many will be with you. We have maps to help you explore the paved and natural trails on your own.

We also have three guided walks scheduled for 2022.

Bird Walk - May 7 - 8AM - Leader: Lottie Bushman

Wildflower Walk - June 11 - 9AM - Leader: Tim Smith, State Botanist emeritus

Butterfly Walk - July 16 - 10AM - Leader: Gabe McNett

Each Walk is limited to 30 people. Sign up via [events registration](#).

Prairie Garden Trust | 8945 County RD 431, New Bloomfield, MO 65063

www.prairiegardentrust.org

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](#)

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](#)

You can now [subscribe to National Geographic Magazine](#) on line for \$19/year.

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

Smithsonian's The Plant Press

Intriguing articles and essays from newly identified plants to artists found in archives. Newest edition of [The Plant Press](#) is available. You can sign up to receive this newsletter personally in upper right corner.

The biggest city you have never heard of - I have been to [Cahokia Mounds](#). It is definitely worth the trip. [Cahokia Mounds State Historic Site](#).

ROOTS OF A CRISIS

By Monica Serrano, Christina Shintani, and Mesa Schumacher Pub 14April22 in *National Geographic Magazine*
As temperatures rise because of climate change, trees are being hit with heat waves and drought, killing them or weakening their resistance to a cascade of pressures, from pests to rising sea levels.
Heat and drought: Hotter air pulls more water from soil and trees during a drought, even as heat stress requires trees to pump more water to leaves. To survive mounting stressors, trees may temporarily shut down some processes. [click on the title to see all illustrations]



How to Turn Your Yard Into an Ecological Oasis

[click title link for whole article]

From YES! Daily Journal, 11 March 22:

Toni Genberg's 0.24-acre Virginia property is certified as Audubon at Home habitat, which means its native plants make it a beneficial location for birds, insects, butterflies, and animals.

Replacing grass with even a few plants native to your region can save insects and the ecosystems that depend on them.

Photo by Toni Genberg



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](#)

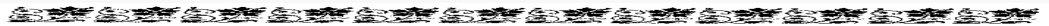
[100 Plants to Feed the Monarch](#)

- [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](#).



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](#).



Bad news for native insects and plants: [Invasive earthworms](#).

Because they were brought here by colonizers from Eurasia who treasured them for recycling and soil aeration, we have been brainwashed to believe they are good for the environment. This article will change your mind. The article explains earthworms could not populate glaciated land faster than 30 feet per year starting with glacial recession.

From personal understanding: ants, being far more ambulatory, cooperative, and far more numerous than worms, quickly repopulated glaciated land and took the niche as aerator. They don't recycle vegetable detritus nearly as much as earthworms, but they move seed around. Remember my teaching: 'Native plants won't grow in fluffy soil. You need to plant them firmly.' ? The lack of detritus and packed soil are major issues in the disappearance of native plants and insects. Read the article in National Geographic link above.

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



Ubiquitous Plastic from NatGeo weekly e-newsletter 27 Aug 2021.

[Midway](#) through it explains the complete plastic cycle.

Drying polyester fabrics in a tumble dryer throws microplastics into the air.



Public Enemy #1

I killed eight last 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 a vertical twig/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.



North American Birds Face Their Own Pandemic With Latest Bout of Avian Flu

Excerpts from Audubon e-newsletter 27 April 2022 by [Aaron Tremper](#)

. . . Experts believe the strain's spread is largely being fueled by migrating waterfowl this spring. The first confirmed cases in Canada and the United States occurred late last year from a Great Black-backed Gull in Newfoundland and a Blue-winged Teal and an American Wigeon found in South Carolina this January. In February, the outbreak started making its way up the Mississippi Flyway, a telltale sign that waterfowl are active vectors for the current strain, says Bryan Richards, a wildlife biologist and emerging disease coordinator for the USGS National Wildlife Health Center. "It was really interesting to watch the early cases following the Missouri River Basin," Richards says. "You can plot them going straight up the Missouri River all the way up into South Dakota."

. . . At this point, guidance on whether the public should take down bird feeders has been mixed. While some groups such as the The University of Minnesota's [Raptor Center](#) and [Cornell Cooperative Extension](#) are advising people to do so, others say **cleaning bird feeders, gear, and baths regularly should suffice. The National Audubon Society currently recommends its members to follow the guidelines provided by local and state agencies.** As spring migration ramps up, Hutchinson also urges birders visiting parks with waterfowl to disinfect their shoes afterward, which can help prevent transmitting the virus to unaffected areas.

. . . The public can help limit the spread of this outbreak by reporting suspected cases and exercising the utmost caution if they may have been exposed. "This is a virus to take seriously," Lenocho says. "We just don't want to have any further introductions if we can help it."



In the spirit of Earth Day . . .

20 ideas to help you go green in the kitchen

From Washington Post April 26, 2021. Story by [Aaron Hutcherson](#) and [Matt Brooks](#). Illustrations by Hudson Christie

Over the past year, many of us have spent more time feeding ourselves than ever before. Planning, shopping, cooking and cleaning feel like never-ending tasks as we have become more acutely involved in securing three meals a day, seven days a week for our households. We're constantly in our kitchens, and this has forced many of us to become that much more aware of [the environmental impact of our meals](#). [click the title for the whole list of 20]

Although we are not experts on climate change and the environment, we are authorities on food and kitchens, and we're often looking for ways to reduce waste in our cooking, cleaning, [food storage](#) and [more](#). If you're of the same mind-set, we've assembled a list of 20 actions — some easy, some a little more involved — that you can take right now to become a more sustainably minded home cook.

If this feels like a long list, start by picking one or two things to try adding to your routine. Each small daily decision can make an impact in the long run.

Topics for This Years' Petal Pusher

the state MONPS newsletter

Petal Pusher Topics for 2022

Due date	Pub Date	Theme	Contributors
April 20	May 1	Past Contributions of MONPS	-Malissa Briggler
June 20	July 1	All About Botanical Latin	-James Trager??
Aug 20	Sept 1	Parasitic Plants	-??
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