



September - October 2015 NEWSLETTER OF THE MISSOURI NATIVE PLANT SOCIETY Volume 30 No.5  
“ . . . to promote the enjoyment, preservation, conservation, restoration, and study of the flora native to Missouri.”

**ANNOUNCEMENTS**

**Malissa [Underwood] Briggler, MDC State Botanist and MONPS Secretary, has an announcement:  
ATTENTION TO MEMBERS RECEIVING HARD COPIES OF THE PETAL PUSHER!  
JULY ISSUE WAS YOUR LAST FREE PAPER COPY.**

The MONPS Board of Directors has reviewed the cost of sending hard copies of the Petal Pusher through regular mail. As printing and postal fees continue to rise, members who would like to continue receiving their copy on paper in the mail will be assessed a \$5 surcharge. However, members can elect to receive electronic copies of the newsletter as an email attachment in PDF format and with the added advantages of full color photos and earlier delivery. Petal Pushers can also be viewed on the MONPS website: [www.monativeplants.org](http://www.monativeplants.org)

It is very important that members interested in receiving only the electronic version of the Petal Pusher give permission for the delivery conversion from paper to electronic. This transfer is not automatic. To make this conversion it is imperative to contact PP Editor Becky Erickson at [beckyerick711@centurylink.net](mailto:beckyerick711@centurylink.net). Fortunately, about half of the members using email are already taking advantage of this opportunity, and they will continue receiving electronic version of the newsletter.



**Dues are Due Now**

From Ann Earley, Membership Chair

Membership renewals for everyone on email service for the July 2015-June 2016 year are due. If you receive your newsletter by postal service delivery, please check the top line of your mailing label. If it shows the date 20150630, your dues are now payable. When renewing, please remember to include your contact information including email address, and your society and chapter dues preferences. Membership renewal online is also available via our website at [www.monativeplants.org](http://www.monativeplants.org) which offers the option of online payment via PayPal.

For those members receiving their newsletter by email without a mailing label, or for others with questions about their membership status, please contact me or your chapter representative (see back page for contact details) for information about your membership expiration date. We value our members and urge you to renew today!

**Welcome New Members!**

<p><b><u>Kansas City</u></b>          Doug Martin, Shawnee KS          Doug Keever, Maryville</p> <p><b><u>Hawthorn</u></b>          Lynne Booth, New Frankfin          Elizabeth Hooper, Kirksville</p> <p><b><u>State Level</u></b>          Pamela Barnabee, Plato          Christy Lundy, Jefferson City          Patricia Perry, Rolla          Susan Wrasmann, Rolla</p>	<p><b><u>Southwest</u></b>          Ann Horsman, Niangua</p> <p><b><u>St Louis</u></b>          David Chappell, St Charles          Monica Hoch, Sulfur Springs          Nancy Philips, St Louis          Annie Rothenberg, Maplewood          Carol Wray, LaBarque Creek          Nancy Willis, St Louis          Thomas Ball, Webster Groves          Jacqueline Bettale, St Louis          Megan Timpe, St Louis</p>

# Information on events and lodging for the MONPS meeting September 18-20, 2015

The Missouri Native Plant Society Fall Meeting and Field Trips will be held September 18-20, 2015 in and around Jefferson City, Missouri. Friday evening is a pot luck at Briggler's house [see page 3] and a brief introduction and orientation program given by Mike Leahy, Natural Areas Coordinator for MDC. Our Board meeting Saturday evening will be held in the Missouri Department of Conservation Credit Union near Runge Nature Center.

**See Schedule details  
on next page**

For the most accurate and up-to-date details, please visit [The Missouri Native Plant Society website](#) and our [Facebook Page](#). (or go to Facebook.com and enter Missouri Native Plant Society in the search box.)

Friday, 18 Sept

Early Bird Field Trip –Spring Creek Gap 1:00 pm – Meet at MDC Runge Office parking lot

7:00 P.M. Briggler's house for potluck and program: Orientation and Introduction to Central Missouri Communities – Mike Leahy, Natural Areas Coordinator for MDC

Directions to MDC Office: MDC's Runge Nature Center is located off Hwy 179 (Commerce Drive), Jefferson City, MO 65109. GPS: 38° 35' 17.6"N, 92° 13' 54.2"W or 38.588234, -92.231724

Saturday, 19 Sept and Sunday, 20 Sept See next page:

See also the Google Map Page for this event which is self-updating: [http://bit.ly/MONPS\\_Fall150918](http://bit.ly/MONPS_Fall150918)

Motels in the Jefferson City area:

[Note: At press time, some hotels were not posting room rates for dates more than three months away, while others already showed limited availability for the weekend of our meeting. Be advised, and book early!]

Baymont Inn & Suites Jefferson City [[Google Local Info](#)] [[Map](#)]  
319 W Miller St Jefferson City, MO 65101  
Phone: (573) 636-5231 Website: [BaymontInns.com](http://BaymontInns.com)  
GPS: 38° 34' 38.4" N, 92° 10' 42.7" W or 38.577318, -92.178522

\$98.10/night (AAA or Senior Rate); \$92.65/night (non-refundable Advance Purchase)

Best Western Plus Capital Inn [[Google Local Info](#)] [[Map](#)]  
1937 Christy Drive  
Jefferson City, Missouri, 65101-2202, US  
Phone: 573/635-4175 Toll Free Reservations: 800-780-7234  
Website: [BestWestern](http://BestWestern)  
GPS: 38° 33' 05.2"N, 92° 11' 56.0"W or 38.551443, -92.198896

\$80.96/night (AAA or Senior Rate); \$80.96/night Advance Purchase

Days Inn Jefferson City [[Google Local Info](#)] [[Map](#)]  
2100 Jefferson Street, Jefferson St & Southwest Blvd,  
Jefferson City, MO 65109-2066 US  
Phone: 573-761-3600 Website: [Days Inn](http://Days Inn)  
GPS: 38° 33' 04.6"N, 92° 12' 08.1"W or 38.551284, -92.202250

\$94/night (AAA or Senior Rate); \$83/night Advance Purchase

Comfort Suites Jefferson City [[Google Local Info](#)] [[Map](#)]  
4804 Country Club Drive Jefferson City, MO, 65109  
Phone: (573) 636-0300 Website: [Comfort Suites](http://Comfort Suites)  
GPS: 38° 34' 53.5"N, 92° 16' 53.0"W or 38.581530, -92.281404

\$92/night (AAA or Senior Rate)

Camping is available [near Jefferson City](#)

Check the websites for updated information and maps to the field trip locations.

## **Field Trip Schedule**

**Fri 18 Sept:** field trip (1-5pm) – **Spring Creek Gap Conservation Area. Meet at MDC Runge Office parking lot.** Friday night festivities (arrive 5:00, dinner 6:00, meeting 7:00) – **Potluck dinner at Malissa and Jeff Briggler’s house with presentation by Mike Leahy - “Orientation and Introduction to Central Missouri Communities”.**  
A main dish (including vegetarian option), salad and bread will be provided at the Friday night potluck. Please either bring a potluck dish to share or alternately, bring \$5 to for your meal. **Please RSVP to Malissa Brigger at 573-301-0082 by 14 Sept! Directions come with RSVP.**

**Sat 19 Sept:** morning field trip (8am-noon) – **Earthquake Hollow Conservation Area**  
Saturday Lunch – Fulton, MO  
Afternoon field trip (1-5pm) – **Auxvasse Glade Natural Area within Reform Conservation Area**  
Saturday night board meeting – (7pm) **Conservation Employees Credit Union**

**Sun 20 Sept:** field trip (8am-noon) – **Missouri Wildflower Nursery, owned by Merv Wallace**

## **Invitation** from our VP and coordinator Dana Thomas

Come join the fun at our fall field trip 18 - 20 September! The tentative schedule includes a visit to the gorgeous glades and upland woods of Spring Creek Gap Conservation Area on Friday, 18 Sept. On Saturday morning, 19 Sept, we will investigate the flora of Earthquake Hollow Conservation area near New Bloomfield. Earthquake Hollow is named after its unique geological features, comprised of conglomerate cliffs and rocks. Saturday afternoon, we’ll tour the high quality glade and woodland habitats at Auxvasse Natural Area within Reform Conservation Area. Finally, come with your native landscaping wish list in hand [and purchasing means] for our visit to the Missouri Wildflower Nursery in Brazito on Sunday morning, and take home some new species for the enjoyment of your family, friends and of course, the critters in your backyard natural community!

In addition to the fantastic field trip lineup, please also join us for the Friday evening potluck dinner and informative talk by Mike Leahy entitled, “Orientation and Introduction to Central Missouri Communities”. It’s sure to be a great weekend of exploration and discovery in Central Missouri!

\*\*Times and locations could change. For the most accurate and up-to-date details including maps, parking locations, and plant lists, please visit The Missouri Native Plant Society website (<http://monativeplants.org/>) and our Facebook Page (<https://www.facebook.com/groups/MONPS/>).

## **2015 MONPS Award Presented at Annual Meeting**

*Malissa Briggler, Awards Committee Chair*

**Bill Knight was posthumously awarded John E. Wylie Service Award at Annual Meeting in Kirksville June 27, 2015.**

Bill not only served as our Distribution Manager and valued member of the St. Louis Chapter, but a dear friend who looked after and truly cared for all his fellow MONPS members. Bill had a way of sensing the needs of people and helping them feel at home. His absence is certainly felt at our state meetings, which he regularly attended.

Bill also came up with creative ways to increase the Hudson Fund, a MONPS scholarship program, by opening a donation account on Amazon. He made beautiful holiday ornaments using walnuts that were sold as fundraisers at chapter booths, and Leopold benches with the MONPS logo burned into the wood. All the money received for these items, including the cost of material, went to the Hudson Fund. How appropriate it was for Bill’s nomination to include the request that a donation be made to the Hudson Fund in lieu of a plaque. Dianne Benjamin nominated Bill for this award and among MONPS members, has experienced the greatest loss in his passing. She accepted a certificate on his behalf and a \$100 donation was made to the Hudson Fund.

*Dianne receives certificate > > > [JO Photo]*

Bill was considered a mainstay to the Society and particularly to the St. Louis Chapter. Anytime there was a need and Bill was in town, you could count on him to participate. Bill’s sudden passing in August, 2014 left his friends and family with a tremendous amount of shock and grief. At the 2014 MONPS Fall Meeting, several attendees informally suggested to nominate Bill for his tireless and extremely valuable service to the Society. Recent words of tribute from MONPS members from around the state were included in his nomination.



# Missouri Native Plant Society - Minutes of the Quarterly Meeting, April 11, 2015

Clinton, Missouri Department of Conservation Office

At 7:00 PM, with a quorum present, the meeting was called to order and the agenda was approved. John Oliver was appointed to record assignments and minutes were approved.

**Treasurer's report** – Board approved two Hudson Fund Awards. As of now, award funds are \$3,000 so we can distribute the awards and have some money left over. BSI reported that the Society appeared in good financial shape. There is no need to buy T-shirts until we sell all the ones we have. Representatives need to get with Bob about the Chapter dues money.

**Hudson Fund** – The Society received a financial contribution from Bob Butin. The Board decided that the money should go to Hudson Fund.

**Distribution Chairperson** – The latest issue of the Petal Pusher will be the last distributed as a bulk mailing. From now on it will be mailed on an individual stamp basis. We will probably need to change printers since volunteers do not live near the printer we currently use. Theresa is offering to help with the responsibilities of distribution. Rex and Theresa will work together to discuss how she can help.

**Website** – The website is not getting much use. We can add pictures and content that would increase use. Our Facebook page is getting much more activity. We need someone to volunteer to update the website. Dana suggested that hiring the work out might not be too cost prohibited. Perhaps we could have our Distribution Chairperson to communicate with a “website manager” we’d have on retainer. We just need someone from MONPS to handle the communication. Some cost estimates will be looked into it and discussed further at the June meeting.

**Missouriensis** – The next issue will be coming out soon.

**Social Media** – Facebook is continuing to grow. There’s a lot of protection regarding Facebook access which helps keep out the riffraff.

**Petal Pusher** – Please be sure to get Becky your information for the Petal Pusher by the time the deadline comes. The members still getting hard copies will be on e-mail only after the next issue if they have not paid the extra \$5. So we expect that some people might be concerned they no longer are getting their hard copies of the PP. A good idea was brought up by AW that the last PP mailed before the cutoff should have a big bold page saying “last hard copy issue”

**Membership** – 28 new members, current number of members is 330. Electronic Pay Pal has worked well. 3 more life members (Merv Wallace and 2 new members of the KC Chapter). Dues renewal message will be in the next PP.

**Hudson Awards** – Board approved that it’s ok to give two Hudson Awards this year. One is a graduate student and one that was an undergraduate. Awards were not based on the desire to give an award for each degree level.

**Awards** – The 2015 John E. Wylie Service Award will be given posthumously to Bill Knight.

**Position changes** – MB is working on finding someone for Springfield Chap Rep., she will submit reports until we get a new Springfield Chapter Representative and RH is working on a potential archivist in St. Louis. MBr will serve as Secretary, RG will join as a Board Member, JO will serve as our President and DT as our VP.

**Poster** – The latest word from MODOT is that it will be printed soon.

**New brochures** – RH will talk to George Yatskievych about updates.

**T-shirts** – Requests need to go to RH.

**Workshops** – RG and Nels Holmberg are doing a Spring Wildflowers Workshop, St. L Community College. PM will be putting on Carex id workshops in June.

## MONPS Assignments – April 11, 2015

John will put the announcement on the webpage and Facebook.

Ann will contact Becky about highlighting the change in dues for those wishing to have a hard copy of the Petal Pusher on the front page of the next PP.

Malissa will take care of getting the Award (plaque) for the Wiley Award for Bill Knight. Amended after Diane Benjamin’s suggestion that a plaque would not be necessary. A nice printed version of the Award Citation should be produced.

Malissa will check on a room for our fall meeting 18-20 September.

## In attendance

Steve Buback (SB)  
Bruce Schuette (BS)  
Justin Thomas (JT)  
Dana Thomas (DT)  
Theresa Cline (TC)  
Martha Hill (MH)  
Rex Hill (RH)  
Hilary Haley (HH)  
Elizabeth Middleton (EM)  
Rick Gray (RG)  
John Oliver (JO)  
Casey Burks (CB)  
Ann Wakeman (AW)  
Ann Earley (AE)  
Bob Siemer (BSi)  
Michelle Bowe (MB)  
Diane Benjamin (DB)  
Elizabeth Olson (EO)  
Malissa Briggler (MBr)  
Paul McKenzie (PM)



## CHAPTER

### Osage Plains

*Casey Burks, Chapter Representative*

There are no Osage Plains meetings scheduled during Dec., Jan., Aug. Regularly scheduled meetings are held the 4<sup>th</sup> Monday of the month at 6:30 pm at the Friends Room of the Henry County Library. Programs are open to the public and our purpose is to enjoy learning about and sharing information about native plants. For further information please contact President Elizabeth Middleton [Elizabeth.Middleton@MDC.gov](mailto:Elizabeth.Middleton@MDC.gov) or Chapter Representative Casey Burks [mobugwoman@gmail.com](mailto:mobugwoman@gmail.com).

June 12<sup>th</sup> Casey gave talk on Wild Edibles at Warsaw for the Garden Club. It was well attended and members were eager to taste various native plant teas, cooked gooseberries, persimmon cookies and quiche made with poke, purselane and lambs-quarter instead of spinach.

June 13<sup>th</sup> OP Field Trip to Ragland Prairie, Henry County. It was perfect timing to see sassafras trees in bloom, lovely pink-purple bells of obedient plant, New Jersey tea in large patches prime for gathering, ripe dewberries, several different varieties of milkweed some with tiny Monarch caterpillars. It was also in this area that there was a huge patch of yellow jewelweed, the first we'd ever seen.

June 20<sup>th</sup> OP Field Trip to Conrad Prairie in St. Clair County. Kathy Conrad and her daughter gave us a wonderful tour and history of the longtime family-owned prairie and then fed us lunch in the nearby church. It fills ones soul to see the panorama of blooming coneflowers, Blue Hearts.

June 22<sup>nd</sup> OP Chapter meeting cancelled

June 26-28 State MONPS meeting at Kirksville, MO I asked Dan Henahan and Bernie Henahan to sub for me at this meeting. Dan sent me the plant list from the field trips and wrote how much he enjoyed exploring this area:

“At Dark Hollow Sat. morning we had the choice of either walking the woods or the Prairie/Savannah, so we split into two groups and enjoyed both. I took to the woods and saw many new plants and fungi. We broke for lunch at a local park that had a small but good remnant attached that had Virginia Bunch flower, sessile-leaved tick trefoil and much more. In the afternoon we visited Union Ridge, which is the largest Savannah in the state, and were once again treated to great plants, great views, and great company. A good time was had by all.”

July 26<sup>th</sup> OP Field Trip to Wayne Morton's Savannah Due to the heat, this was held on late Sunday afternoon but it was a joy to see how Wayne's efforts are paying off in native plants re-appearing. He has cleared out hundreds of trees and continues to beat back invasives. We saw scaly, button, and gayfeather *Liatris* growing in close proximity, side-oats in bloom, different varieties of sunflowers, goat's rue and lead plant growing sided by side, elm leaf goldenrod beginning to bloom and an abundance of rattlesnake master.

July 27<sup>th</sup> OP Chapter meeting: Plant ID lead by president Elisabeth Middleton plus members bring native plant foods to share.

## REPORTS



### Southwest Chapter

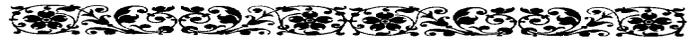
*Submitted by Michelle Bowe*

Check the calendar section for other upcoming events. Be sure to watch the Facebook Events page and your email inbox for details about upcoming trips and events! In case of bad weather, watch Facebook for cancellations or call ahead of time and we'll call back with more information.

In June, a group of about nine of us met and worked in the rain garden and the “Paul Redfearn” native plant garden at the Springfield botanical center—both of which are growing wonderfully due to all the rain we've been getting.

In July, Morgen Holt and I will give a presentation about our summer research in the San Juan Islands. Earlier in May, I went with Wendy Anderson (formally of Drury University) and met up with some students from Stetson U. in Florida (where Dr. Anderson is now the Chair of the environmental program) and Morgen (who graduated from Drury and lives in Springfield) to the Islands off the coast of Washington State. While I was there, we worked mostly on Lopez Island—identifying the plants and analyzing the vegetation in order to preserve the BLM land's protected status.

Unfortunately, Jeremy Keene, who had agreed to be our Chapter Representative is moving on to a faculty position in West Virginia (I mean, it is fortunate for him, just not for us), so we still need a chapter rep. I will be begging at the July meeting.



### From Casey's Kitchen:

*Submitted by Casey Burks*

**Sondra's Chewy Granola Bars:** These just won a purple ribbon for best overall cookie at the Henry County Fair. Wonderful Trail Bars! Make them up for treks on a prairie or in the woods. Line a 10 x 15 cookie sheet with aluminum foil (shiny side up) Spray lightly with PAM.

#### Mix all together:

3 C quick rolled oats toasted; 1 C chopped pecans toasted; 1 C chopped almonds toasted; 1 C walnuts or cashews; 1/2 C sunflower seeds; 1/3 C wheat germ; 1/3 C ground flax seed. 2 T Sesame seed.

#### In separate bowl mix:

1/2 C packed light brown sugar; 1 C peanut butter; 1 stick melted butter; 1/2 C light corn syrup; 1/2 C honey; 2 teaspoons Vanilla; 1 teaspoon Cinnamon

Blend wet ingredients well and add to dry ingredients. Mix well and press evenly into prepared pan. Bake 15 – 20 minutes at 350 deg. Just until golden. Score into bars while still warm.

Note: you can omit some of the nuts and use raisins, or dried cranberries, blueberries, apples, ginger, mango, banana, etc.



## St Louis Chapter

Submitted by Rex Hill, Chapter Representative

In June, we held our annual evening walk, taking advantage of the long daylight hours by meeting at 6:00 PM and taking a short walk on the Al Foster Trail in western St. Louis County. Unfortunately (not really), Martha and I were returning from our trip to Alaska and were coming down the Alaskan Highway about that time. I'm sure that it was a great walk followed by dinner at a local restaurant.

In July, Steve Buback of the Missouri Department of Conservation gave a presentation on **Restricted Plants of the Loess Hills of Missouri**. For the last several years, Steve has been working for MDC as the Northwest Regional Biologist. He has brought to that position a keen interest and curiosity for this unique area in our state. His talk reminded us of why we don't mind the five hour trip from St. Louis to attend one of the MONPS quarterly fieldtrips when it is scheduled for the St. Joseph area.

He began by referring to a study done in 1895 of Atchison County done by the botanist Benjamin Franklin Bush who was a very active collector in the western part of the state. I was able to rather easily obtain a copy of the paper, "Notes on the Mound Flora of Atchison County, Missouri", published at the Missouri Botanical Garden. After reading the paper, and getting past some of the botanical nomenclature changes, e.g. *Spiesia* to *Oxytropis*, *Acuan* to *Desmanthus*, *Kuhnistra* to *Dalea*, etc., it was interesting to see where Steve got his ideas for the talk. Bush had listed a number of plants as 'common', or 'abundant' that are now state listed in the Species of Conservation Concern document updated annually and published by MDC. He also referenced a great book on the loess hills by Cornelia Mutel, titled Fragile Giants, which is a great read for someone interested in understanding this unusual area that stretches from northwest Missouri along the Missouri River well into Iowa.

With all of the changes rendered by human habitation, farming, and development it is still possible to find remnant populations of many of the plants referenced in Bush's paper. Many of these are unique, and somewhat restricted to these loess hill mounds and it presents a challenge to MONPS members to return again and again to search for them, and note changes in their well-being. I have included a list of the plants Steve discussed. Information from the Flora of Missouri database indicates that these plants have been predominantly collected in the northwestern portion of the state and rather sporadically in the last 50 years. [Species list, page 7]



## Kansas City

Submitted by Hilary Haley, Chapter Representative;

On April 25<sup>th</sup>, members of the Kansas City Chapter traveled to Excelsior Springs, MO to tour Isley park Woods Natural Area. Several spring wildflowers were spotted in bloom, including False Rue Anemone and Wild Columbine. Also spotted was a large patch of bloodroot, so named for the red dye found in the plants roots.

At the spring meeting in May, Lenora Larsen came to speak about butterflies, moths, and their native plant hosts.

## Ozark Chapter

Submitted by Liz Olson, Chapter Representative

### Ozark Chapter Report:

In summer months, the Ozark Chapter hosts Plant ID nights. The meetings are essentially led by our members who bring in plants that they'd like to have identified. We're always surprised by the variety of plants folks have plucked from their property or the local area. Some highlights from June and July were:

***Polemonium reptans* – Jacob's ladder;** found in moist habitats like bottomland or mesic upland forests, stream banks, and near springs. It had flowered in May, but the seed structure was still attached.

***Lycopus americanus* – American bugleweed;** found in bottomland forests, sinkhole ponds, fens, bottomland prairies, and moist disturbed areas.

***Carex glaucoidea* – blue sedge;** a beautiful sedge with wide glaucous leaves that have a bluish hue; often found in upland woods along trails.

***Chaenomeles incarnata* – flowering quince** (Introduced; native to Asia); found along roadsides and disturbed areas, and around old homesites. It has hard green apple-shaped fruits, but in MO it rarely produces fruit.

***Solidago drummondii* – Ozark goldenrod;** found on ledges and tops of calcareous bluffs and rarely on river banks. Not blooming yet, but the large rough leaves are distinctive.

***Asclepias incarnata* – swamp milkweed;** in the wild it is found in wet habitats like swamps marshes, margins of ponds, banks of streams, and bottomland prairies. This specimen was checked for monarch eggs before it was cut!

***Lythrum alatum* var. *alatum* – winged loosestrife;** found in marshes, fens, bottomland prairies and glades, and wet disturbed areas. This species is native, but the two other *Lythrum* taxa found in MO are introduced: *L. alatum* var. *lanceolatum* and *L. salicaria*.



BE photo



[KC cont] Larsen shared many interesting facts with our group. Did you know that about 90% of butterflies are host-plant specific? Or that there are as many as 2,600 species of moths are hosted by plants in the Kansas City region? Of the plants most important to moths, most are actually trees. These include oak, willow, cherry, plum, cottonwood, and crabapple trees.

Another spring field trip was held later in May to the Marais des Cygnes National Wildlife Refuge. This is a 7,500 acre area that was established as a refuge in 1992 to help protect bottomland forest. However, many glades also exist within this refuge, one of which proved to be the highlight of the trip. Prairie Larkspur, Stonecrop, Spider Milkweed, and Wild Hyacinth were all found blooming along with Southern Black Haw. Overall, more than 80 species of plants were recorded on this trip to the refuge.

## Hawthorn Chapter

Submitted by Ann Wakeman

The bi-monthly membership meeting held at the Unitarian Church July 14. Mike Powel from Greenbelt Land Trust spoke on the process of putting a conservation easement on land for conservation preservation.

The Highway Adopt-a-Spot our Chapter adopted about ten years ago along Stadium Boulevard in Columbia is receiving attention. Five members have put in 19 hours doing maintenance on the site including brush removal, spraying teasel, poison ivy, and crown vetch, pulling sweet clover and other. Plans are to also work on reducing the large patches of Indian grass then mowing later this fall.

In partnership with Columbia Audubon Society's 13 acre prairie reconstruction project on Columbia's Bonnie View Park, chapter members are collecting seed along with Master Naturalists. We are collecting from native sites such as MU's Tucker Prairie,

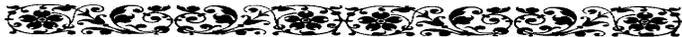
MDC Conservation Areas, as well as private plantings at Ann Wakeman's and Becky Erickson's. At present, we are targeting early flowering native plants, common and lesser known



species. Ann snapped this sunset as we were leaving Tucker.

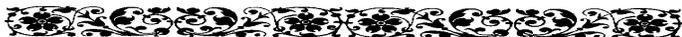
In May joint members of Hawthorn and Mid-Mo Wild Ones toured Lesa Beamer's prairie planting and her neighbor's plantings to see quite the display of foxglove beardtongue. In June the joint membership visited Louise Flenner's (and husband, George) reclaimed field project to see the progress they are making. July was a tour of Ann Wakeman (and Mike Rues) prairie planting, some sections planted over 20 years ago!

The Native Enthusiasts lunch on third Thursdays are well attended. Topics range from native plants and issues to landscape maintenance to other hot topics at that time. Attendance is open to all environmental people.



## Perennis Chapter

See calendar and Facebook page for upcoming activities- Andrew Braun, chapter representative



## Empire Prairie Chapter

No report submitted



## Species of Conservation Concern [not inclusive]

Provided by Rex Hill

Refer to text under St Louis Chapter Report page 6.

Key: S1 - Critically Imperiled in MO; S2 - Imperiled; S3 - Vulnerable; SH - Historical - not seen in 20 years

Scientific Name	Common Name	State Rank
<i>Anemone cylindrica</i>	thimbleweed	S2
<i>Artemisia dracunculus</i>	tarragon	SH
<i>Astragalus lotiflorus</i>	low milk vetch	S2
<i>Bouteloua gracilis</i>	blue grama	S1
<i>Bouteloua hirsuta</i> var. <i>hirsuta</i>	hairy grama	S2
<i>Buchloe dactyloides</i>	Buffalo grass	SH
<i>Carex sprengeii</i>	Sprengle's sedge	S1
<i>Castilleja sessiliflora</i>	downy painted cup	S2
<i>Cirsium undulatum</i>	wavy-leaved thistle	SH
<i>Cleome serrulata</i>	Rocky Mountain bee plant	SH
<i>Dalea enneandra</i>	nine-anthered dalea	S2
	narrow leaved coneflower	SH
<i>Echinacea angustifolia</i>		SH
<i>Glycyrrhiza lepidota</i> var. <i>lepidota</i>	wild licorice	S1
<i>Heterotheca canescens</i>	golden aster	SH
<i>Liatis punctata</i> var. <i>punctata</i>	prairie snakeroot	S3
<i>Lygodesmia juncea</i>	skeleton plant	S3
<i>Muhlenbergia cuspidata</i>	plains muhly	none
<i>Nothocalais cuspidata</i>	prairie dandelion	S2
	narrow-leaved evening primrose	none
<i>Oenothera serrulata</i>	scarlet gaura	S1
<i>Oenothera suffrutescens</i>		S1
<i>Oxytropis lambertii</i> var. <i>lambertii</i>	locoweed	S2
<i>Pediomelum argophyllum</i>	silvery psoralea	S2
<i>Penstemon grandiflorus</i>	shell-leaf penstemon	S1
<i>Symphoricarpos occidentalis</i>	wolfberry	S1
<i>Yucca glauca</i>	soapweed	S2



## Monarch Waystations in MISSOURI A Call to Action!



A recent conversation with our friends at [Monarch Watch](#) reveals the current fact that Missouri is

lagging behind with registered [Monarch Waystation](#) sites. Since Missouri is front-and-center along the Monarch migration corridor, our great state of Missouri should be in the TOP 5!

**Have you registered your garden or acreage as a monarch Waystation? Don't delay.**

Register your waystations at:

<http://www.monarchwatch.org/waystations/>

Thank you for your consideration to elevate Missouri's engagement with supporting the future of the Monarch!

<http://missouriansformonarchs.blogspot.com>

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# CHAPTER

# CALENDARS



## **Kansas City** *from Hilary Haley, Chapter Representative*

For questions about upcoming field trips contact the field trip leader, otherwise contact John Richter via e-mail: [jrichter@ene.com](mailto:jrichter@ene.com), or cell phone 913.217.0432. Please RSVP with the field trip leader or John Richter for all field trips. We use RSPV information to plan car pool logistics and if a field trip will have any attendance. This is important for making decisions based on severe weather, etc.

**Summer 2015 – Canoe trip?** If anybody is interested please contact John Richter [jrichter@ene.com](mailto:jrichter@ene.com), cell 913-217-0432.

There have been no activities planned for August

**1 Sept 7:00 PM**, MDC Discovery Center: **Chapter meeting.** activity TBD. No RSVP required.

**3 Nov 7:00 PM**, MDC Discovery Center: **Chapter meeting,** activity TBD. No RSVP required.

December – break from activities.



## **St Louis** *from Rex Hill*

Chapter meetings are held on the fourth Wednesday of the month at the Sunset Hills Community Center, 3915 South Lindbergh Blvd., Sunset Hills, MO 63127. Google Map: <http://goo.gl/maps/K3PR>

**Friends and newcomers are welcome at meetings.**

**26 August – 7:30 PM – Carol Davit**, executive director of the Missouri Prairie Foundation, will speak on the activities of the Foundation to save Missouri's precious prairie remnants.

**23 Sept– 7:30 PM – Ron Colatskie**, State Parks Natural Resources Steward, will give a program on Ecological Tidbits and Curiosities of the St. Francois Mountains.

**28 Oct– 7:30 PM –** Every year this is the meeting where chapter members are invited to share their photographs from the past field season. Power Point presentations, digital images, and even old fashioned slides are welcome.



## **Ozark** *from Liz Olson*

The Ozark Chapter meets at 6:30 pm on the third Tuesday of each month at the Missouri Department of Conservation, Ozark Regional Office, 551 Joe Jones Blvd, West Plains, MO 65775. For more information, contact chapter president Susan Farrington at 417-255-9561. We take suggestions for speakers at our meetings. Contact Susan Farrington for more discussion: 417-255-9561.

**15 Sept Tues: Susan Farrington** will present Doug Tallamy's program entitled "**Conserving Nature by Conserving Food Webs.**" Special thanks to Doug Tallamy for sharing his wonderful program that helps us to understand how everything is connected, and how we can help save the birds and butterflies by using native trees and shrubs in our landscapes. The program features Tallamy's incredible photographs of plants, birds, and caterpillars.

**20 Oct Tues: Betty Queen** will present a program about her elaborate **rain barrel watering system.** Learn how you can conserve water and harness natural processes to keep your gardens looking great.

## **Osage Plains** *from Casey Burks*

**There are no Osage Plains meetings scheduled during Dec, Jan and Aug.**

Regularly scheduled meetings will be 4<sup>th</sup> Monday of February through November. 6:30pm, at the Henry Co. Library, Clinton. Meetings are open to the public and our purpose is to enjoy learning about and sharing information about native plants. For further information please contact

President Elizabeth Middleton [Elizabeth.Middleton@MDC.gov](mailto:Elizabeth.Middleton@MDC.gov) past President Emily Horner [Emily.Horner3@yahoo.com](mailto:Emily.Horner3@yahoo.com) , or Chapter Representative Casey Burks [mobugwoman@gmail.com](mailto:mobugwoman@gmail.com) Contact Bernie Henehan [berniehenehan@me.com](mailto:berniehenehan@me.com) or Dan Henehan [danhenehan@embarqmail.com](mailto:danhenehan@embarqmail.com) for fieldtrip information.

**No OP meeting in August**

Fall MONPS meeting September 18-20 in Jefferson City.

**26 Sept Special Saturday** OP meeting/trip to Diamond Grove Prairie (full day).

**28 Sept** No meeting Monday eve

**October Field Trips TBA**

**26 Oct** Regularly Scheduled meeting



## **Southwest** *from Michelle Bowe*

Meetings are usually held at Greene Co Botanical Center, Spgfld, 4<sup>th</sup> Tuesday, 6pm. In case of bad weather, watch Facebook for cancellations or call ahead of time and we'll call back with more information.

**25 Aug Tues. 6:00 pm** at the SBC. Program TBA

**22 Sept Tues 6:00 pm** at the SBC. Program TBA

**27 Oct Tues 5:00pm** (last meeting of the year), we will plan to have our annual cookout at a new location: The Lovett Pinetum. Bob Lovett has been working on growing as many species of gymnosperms as possible and is welcoming us to come out to enjoy the property.



## **Hawthorn** *from Ann Wakeman*

Chapter meetings held on odd-numbered months on the second Monday at Unitarian Church, 2615 Shepard Blvd., Columbia. Third Thursday lunch at Uprise Bakery [RagTag] 10 Hitt St, Columbia continues to be well attended by members for informal discussions about native plants and environmental issues. See [www.columbianativeplants.org](http://www.columbianativeplants.org) for postings of newsletters and activity details. For folks interested in hiking and wildflower sightings around the state, see chapter newsletter on the website for details. Otherwise you are encouraged to participate in outings with other MONPS chapters and MPF.

**14 Sept Mon 7 pm Members Meeting.** Bring plant samples for identification.

**17 Sept Thurs 11:30 Lunch**

**15 Oct Thurs 11:30 Lunch** Planning for booth

**17 Oct: 10 to 4 Chestnut Festival is back! New**

**Franklin.** We have applied for a space and plan to set up our booth.

**9 Nov Mon 6 pm Members Meeting**

**19 Nov Thurs 11:30 Lunch**

## Web Links

Have you encountered a link generally about nature you find informative or inspirational? Please send it in to share with the rest of us. This column hasn't changed lately – it is up to you.

See our own newly rebuilt website! [www.monativeplants.org](http://www.monativeplants.org)  
Thanks to Brian Edmond

Justin Thomas has an awesome blog:  
<http://thevasculum.blogspot.com/>

The new Missourians for Monarchs BLOG post has some good information about seed harvesting and propagation.  
<http://missouriansformonarchs.blogspot.com>

Wild Ones Landscaping: Healing nature one yard at a time  
<http://www.wildones.org/>  
Local ecotype guidelines  
<http://www.wildones.org/learn/local-ecotype-guidelines/>

Plant Conservation Alliance  
Info from every agency and most botanical gardens  
Edibles, aliens, ecosystems, fire, landscape mitigation, and more.  
[www.nps.gov/Plants](http://www.nps.gov/Plants)

Nadia's Yard: best place to start local resource searches.  
<http://nadiasyard.com/>  
Musings about suburban native gardening and links

Plant identification [www.plants.usda.gov](http://www.plants.usda.gov)  
Xerces Society: Information on Bees, Monarchs, and most other insects. [www.xerces.org](http://www.xerces.org)

Ozark Highlands of Missouri: Observations from the hills to the back yard <http://allisonjvaughn.blogspot.com/>

Wren Song: Weekly newsletter with links to several articles  
<http://www.ecosystemgardening.com/wren-song>

**Neonicotinoids** please inform your gardening friends.  
<http://www.xerces.org/2013/06/21/pesticide-causes-largest-mass-bumble-bee-death-on-record/>

Before you buy, ASK if plants were treated with neonics. Please do not purchase garden plants from nurseries who cannot tell you if plants are treated with neonics. They probably were. Please explain this issue to your friends who are avid gardeners.

Neonic product list for reference  
<http://www.xerces.org/neonicotinoids-and-bees/>

## Get the complete scoop:

<http://nativeplantwildlifegarden.com/whats-all-the-fuss-about-neonicotinoids/>

## Perennis *from Andrew Braun*

Field trips and other events for the Perennis chapter are currently being planned. Watch for announcements by e-mail, the MONPS website, and the MONPS Facebook page. As always, ideas are welcome! Contact Andrew Braun for information [apbraun1@gmail.com](mailto:apbraun1@gmail.com)

## Empire Prairie *from Steve Buback*

For future meeting times and dates contact Steve at [steve.buback@mdc.mo.gov](mailto:steve.buback@mdc.mo.gov).

## Native Milkweeds of Missouri

recommended for planting to benefit the Monarch butterfly by ecoregion or natural community type/s  
(Paul McKenzie- March 2015)

### Widespread species

1. Common milkweed- *Asclepias syriaca*- wide variety of habitats , rhizomatous
2. Butterflyweed- *A. tuberosa*- wide variety of habitats- common garden species
3. Swamp milkweed- *A. incarnata*- wet habitats but does well in planted gardens
4. Whorled milkweed- *A. verticillata*- wide variety of habitats including prairies, glades and dry upland forests
5. Four-leaf milkweed- *A. quadrifolia*- open woodland
6. Purple milkweed- *A. purpurascens*- moist, partly shaded, weakly rhizomatous
7. Green milkweed- *A. viridis*- prairies/glades, unglaciated. Aka – antelope horn.
8. Prairie or tall green milkweed- *A. hirtella*- bottom and upland prairies/glades/pastures
9. Smooth milkweed- *A. sullivantii*-also in W MO south of MO River- wide variety of habitats, moist soil.

**Species not recommended** due to their rarity or their non-native status

1. Mead's milkweed- *A. meadii*- federally listed species
2. Showy milkweed- *A. speciosa*- only known from one historical record
3. Poison milkweed- *A. subverticillata*- introduced and only known from one historical record
4. Poke milkweed- *A. exaltata*- rich bottomland forest- known only from Cape Girardeau Co.
5. [ed. note] Mexican milkweed- *Asclepias curassavica*- detrimental to Monarch health.



And more information on our website  
[www.monativeplantsociety.org](http://www.monativeplantsociety.org)

## Road Salt and Monarchs: Elevated sodium along roadsides impacts monarch development.

[suggested by Janice Albers]

Dr. Emilie Snell-Rood; Assistant Professor Department of Ecology,  
Evolution and Behavior University of Minnesota

The ecological impacts of road salt have primarily been studied with respect to the negative effects of chloride in aquatic systems. However, sodium is an important micronutrient for the development and functioning of neural and muscle tissue and is known to affect the foraging behavior of both vertebrates and invertebrates.

Here I discuss recent research from our lab using butterflies as a model to investigate the effects of roadside sodium. First, we show that some (but not all) roadside plants have elevated sodium -- for instance, roadside milkweed has 16-30 times more sodium than plants collected 500m away.

Second, we reared monarchs on roadside and prairie-collected milkweed, and found sex-specific effects on the development of eyes and flight muscle.

Finally, we reared cabbage white butterflies on an artificial diet that varied in sodium content, and found parallel effects on muscle and brain development. Rearing at very high sodium levels resulted in elevated mortality.

These results suggest that in some cases, road salt runoff may have positive impacts on herbivore development. Given the importance of sodium in animal foraging behavior, these results also suggest that some animals may be attracted to roadsides because of elevated sodium availability. I will conclude by discussing a variety of open and pressing future directions investigating roadside nutrition and foraging behavior of pollinators more generally

To register click on the link below.

[http://nctc.adobeconnect.com/e6mm5fbzftc/event/event\\_info.html](http://nctc.adobeconnect.com/e6mm5fbzftc/event/event_info.html)

[https://events-na8.adobeconnect.com/content/connect/c1/1089783514/en/events/event/private/1090609305/1469033619/event\\_landing.html?scoid=1599806181&charset=utf-8](https://events-na8.adobeconnect.com/content/connect/c1/1089783514/en/events/event/private/1090609305/1469033619/event_landing.html?scoid=1599806181&charset=utf-8)

Note: Captioning Services will be available for this webinar.



Osage River from Painted Rock CA trail overlook. BE photo

*"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, a 16th Century Dane educator.**

Get out and become native to your place:

### River

[anonymous]

*A person encounters the river upstream in the spring with fresh winter run-off sweetening the water and spring activities of nature all around. S/he pauses to enjoy a day by the stream: to watch the raccoon fishing and the butterflies feeding over the wildflowers. At this point s/he is enamored with the river. S/he craves its energy and spends many hours drinking of the clean vitality of the river and its surrounding landscape.*

*As the stream meets others, it widens where the waters flow together. Prairie streams and rivers wend and weave silver braids across wide valleys. Great flocks of geese, ducks and sandhill cranes stop to rest in the shallow water during migration. Bald eagles hang out in tall cottonwoods where it is easy to spot and pick up lame and sick ducks. There are so many lessons to be learned from the nature of the river.*

*A person can walk up to that river at any point or in any season and make a judgment. Summer or fall the level of the river could be low and the water could smell of recycling nutrients, the weather hot and humid, and the air lousy with insects ... so the person, having a brief, unpleasant experience, thinks s/he does not like the river because that one spot at that one time was not "nice".*

*As the river ages in its travel, merges with other streams, swells with floods and stinks from drought, it becomes deep and broad. The river carries nutrients from up stream, feeds the land when it floods, is turbid so the bottom is unseen and the stuff of life lying there is unknown.*

*Another time and year, another winter, s/he could cross the wide expanse of flowing life near the mouth of this river. From a bridge he would watch the ice-flows pass slowly in the brown water. And s/he shivers from an unknown fear as much as from the cold. S/he never stops to think... and realize this is the same river s/he enjoyed on the spring day a long way upstream.*

*As you follow that river every foot and mile from the source, you know the little falls, riffles and pools. You know the trees that shade and cool the water and the animals who drink from the pools where the damsel fly larva eats and is eaten. If you spend enough time to know where it came from, what it is doing for the land around it, what it does along the way, what is its personality throughout the seasons and where it is going ... then it can be time to decide if you love it or hate it, but not before. A river is a river. Every mile has a bend, a life, a personality of its own. Knowing a river and learning to love it can take time, possibly a lifetime.*

## Curator's Corner:

### Hot time, summer in the herbarium

*The seventh in a series about herbarium curation by Michelle Bowe who is an Instructor and Curator of the Ozarks Regional Herbarium (SMS) at Missouri State University in Springfield, Missouri. She is also President and Treasurer of the SW Chapter of MONPS and is on the state MONPS Board. This is a regular column on herbaria and herbarium curation, written from her small, warm, windowless office next to the herbarium in Kings Street Annex. E-mail: [mbowe@missouristate.edu](mailto:mbowe@missouristate.edu).*

Every spring, I think, oh, I'm just teaching one short summer school class, and then I'll have all of this time to organize my office and work in the herbarium, process all the new specimens, etc. This summer, I even have a new volunteer—Caitlin—who started my classes with heavy skepticism about botany, but loved it so much that she has been coming in to help over the summer.

And then, reality sinks in. In early June, on the first day of summer school, the students (who meet in the lab next to the herbarium) were asking, “how long are we going to be in here today?” I did have plans for us to go outside and on field trips most days, but this was just the first day. Fortunately, I had done a bit of homework right before class, and I knew exactly why they were asking the question. It was about 90 or more degrees and very humid in the lab. However, there was a classroom we could use downstairs (where the temperature was more normal) before we went outside (where it was cooler and there was a breeze). So, my response was, “as soon as everyone gets here, we are going downstairs.”

And so, that's when I remembered why I don't get so much done in the summer. The temperature and humidity are not conducive to getting a lot done. And the air conditioner breaks every single summer. (I've put in two work orders and informed the dean and the building supervisor). Caitlin has been a trooper, though, putting in several hours a week in the stifling environment. At least a thousand or so plants are now organized (although that's just the tip of the iceberg so to speak).

Breaking my hand on the summer MONPS field trip to Dark Hollow (near Moberly) didn't help either. There is only so much I can do (including typing this) before it really starts hurting again. It was a great trip, by the way, until I slipped on a slope and landed with my full body weight on my pinky (bent back). I go back in next week for a follow up x-ray. Moral of the story is to put your hands up if you feel yourself slipping. Your bottom is designed to cushion. Fingers are not.

In any case, for your enjoyment, **I'm including a photo of the two “Port-a-cools” they installed** as a temporary measure. On the left is the hallway leading to the herbarium. We got lucky this year. Last year, we only had one.



## Conservation of Nature Through Social Media

Submitted by Susan Farrington

Photos by Ann Horsman

Our State Facebook page is hugely popular and very active, with over 3500 followers [link below], with many posts each day, mostly from folks interested in identifying plants or learning how to manage their land for the benefit of native plants.



One of those many id requests recently resulted in a new record for a rare plant in Missouri! Ann Horsman posted a photo of a plant on her property that turned out to be

### *Perideridia americana* (wild dill),

a member of the carrot family (Apiaceae). It blooms in May and early June, and quickly withers and goes dormant after flowering. It was added to our Species of Conservation Concern list about 8 years ago, ranked

as SU – Status undetermined. This means we don't know enough about its distribution to determine how rare it might be, so every report is helpful in determining how this plant is doing in Missouri. Nationally it is listed as “Apparently secure.”

After Ann posted her photos, Jesse Miller reported another siting he had made a few years ago. Facebook can serve as a great conservation tool sometimes!

<https://m.facebook.com/pages/Missouri-Native-Plant-Society/419830065464?id=419830065464&refsrc=https%3A%2F%2Fwww.facebook.com%2Fpages%2FMissouri-Native-Plant-Society%2F419830065464>



# Photos from the Kirksville Field Trips

Thanks to John Oliver, Mike Rues and Becky Erickson for submitting photos.



*Asclepias tuberosa* butterfly weed and  
*Melanthium virginicum* bunch flower  
Fritillary butterflies



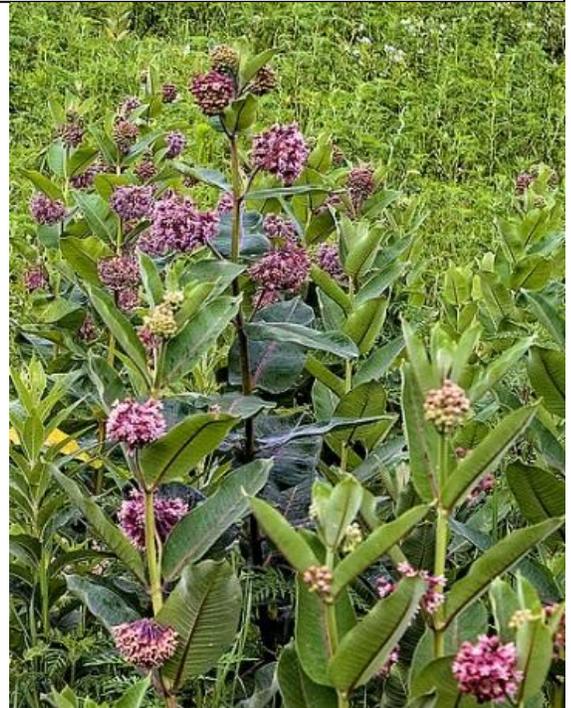
AHhh – sun after so much rain! Group of expectant explorers take off to find the elusive wood lily in Morris Prairie Natural Area. Yes it is still elusive. But we found many others.



*Amorpha canescens* lead plant and flower detail



*Asclepias syriaca* common milkweed in a new planting.





From John Oliver: Saturday morning dawned sunny and rainless. We drove to Dark Hollow Natural Area, a series of wooded ravines that offered a rare glimpse of northern Missouri forestland in what is otherwise farmland. Dropping into the Hollow we saw the following specimens among others:



L>R: *Arnoglossum reniforme* woodland cacalia; an impressive orange fungus; fern hunters in the depths of Dark Hollow; [below L>R] *Asclepias purpurascens* purple milkweed with fritillaries.

At Union Ridge: *Dalea candida* white prairie clover; *Dalea purpurea*, purple prairie clover.



Braving a drizzle again – we studied sandstone cliffs at Hidden Hollow for petroglyphs, ferns, and mosses. Two found chanterelles!

Saturday afternoon: Botanizing at a Green City prairie remnant and at one of the Union Ridge CA prairie ridges.





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[www.monativeplantsociety.org](http://www.monativeplantsociety.org)

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**"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community.  
It is wrong when it tends otherwise." Aldo Leopold**

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