

November-December 1999

Vol. 14, No. 6

## Missouri Native Plant Society

### November

- 2** Tue., 7:00 PM  
Jefferson City **Baseball and Wildflowers** presented by Bill Clark, formerly an international scouting supervisor for the Atlanta Braves for thirty-three years. During his travels he photographed plants and birds. Chapter meeting held at Runge Nature Center. Meet at Mel's Restaurant at 5:30 PM for dinner prior to the meeting.
- .....
- 8** Mon., 7:00 PM  
Columbia **Chapter Meeting.** Topic to be determined. Held at Midwest Science Center, 4200 New Haven Rd.
- .....
- 15** Mon., 7:00 PM  
Clinton **Drying of Flowers & Plants.** Bring examples and tell us how it was done. Chapter meeting at held in the basement of the Henry County Courthouse.
- .....
- 17** Wed., 7:00 PM  
Kansas City **Chapter Meeting** held at the Loose Park Garden Center, 52nd and Wornall. Program to be announced.

### December

- 1** **Due date for material for January-February *Petal Pusher*.** Please send meeting and field trip information and articles (typed double-spaced) to the editor by this date. If article has been word processed on a Macintosh, please send copy on disk to Pat Harris. Disk will be returned. Or send e-mail to: [pharris@stlnet.com](mailto:pharris@stlnet.com)
- .....
- 4** Sat., 9:30 AM  
Columbia **Winter Board Meeting** at Dunn-Palmer Herbarium. See page 3 for details.
- .....
- 7** Tue., 6:00 PM  
Jefferson City **Dinner Meeting** held jointly with River Bluffs Audubon Society. Alan Tate in costume presents his reenactment of Pre-settlement Flora and Fauna for the after dinner program. Held at the Runge Nature Center. For more information, contact Janet Racen, 573-374-0372 or Carol Young, 573-896-9277.

### January

- 4** Tue., 7:00 PM  
Jefferson City **Terraced Gardens of Vegetables and Wildflowers** presented by Ray Evans. Chapter meeting held at Runge Nature Center.



A Gift that will last all Year! A MONPS Membership!

## Hawthorn Chapter Book Shelf

Price	Title
<b>Missouri Department of Conservation Publications</b>	
\$9.00	Water Plants for Missouri Ponds
\$13.00	Missouri Conservation Department Atlas
\$4.00	Missouri Orchids
\$10.00	Missouri Wildflowers – New
\$2.00	Key to Missouri Trees in Winter
\$4.00	Wild Edibles of Missouri/temporarily unavailable
\$9.00	Shrubs and Woody Vines of Missouri (soft cover)
\$2.00	Missouri Hiking Trails
\$5.00	Walk Softly Upon the Earth - field guide to MO mosses, liverworts, and lichens
\$10.00	Butterflies and Moths of Missouri
<b>Books from Arkansas</b>	
\$7.00	Wildflowers of Ozarks
\$8.00	Autumn Leaves/Winter Berries in Arkansas
\$14.00	Trees, Shrubs and Vines of Arkansas
\$16.00	Wildflowers of Arkansas
<b>Books from other sources</b>	
\$28.00	The Grasses of Missouri
\$12.00	Peterson Guide—Eastern/Central Medicinal Plants
\$12.00	Peterson Guide-Wildflowers NE/NC North America
\$11.00	Stokes Guide to Enjoying Wildflowers
\$2.00	Winter Tree Finder
\$2.00	Winter Weed Finder
\$2.00	Flower Finder
\$2.00	Berry Finder
\$2.00	Fern Finder
\$12.00	River Valley Companion & Nature Guide (guide for the Missouri River Trail State Park)
\$15.00	Ferns—To Know & Grow
\$13.00	Plant Fibers for Paper Making
\$19.00	Tall Grass Prairie Wildflowers
\$8.00	Catfish Ponds and Lily Pads
\$13.00	Growing & Propagating Wildflowers
\$3.00	How to Manage Small Prairie Fires
\$5.00	Brooklyn Botanic Garden - Gardening with Wildflowers & Native Plants
\$6.00	Brooklyn Botanic Garden - Going Native
\$16.00	Landscaping with Native Trees
\$15.00	How to Identify Flowering Plant Families
\$2.00	Prairie Wildflowers Coloring/Activity Book
\$10.00	Wildflowers of Fields, Roadsides, & Open Habitats of Illinois
\$13.00	North American Range Plants
\$20.00	Gardening with Native Wildflowers
\$10.00	Wild Seasons
\$7.00	Saving Seeds (gardener's guide to growing and storing vegetable and flower seeds)
\$2.00	Storey Guide - Starting Seeds Indoors
\$2.00	Storey Guide - Attracting Birds
\$2.00	Storey Guide - Creating a Wildflower Meadow
\$2.00	Storey Guide - Grow a Hummingbird Garden
\$2.00	Storey Guide - Building Bat Houses
\$2.00	Storey Guide - Creating Your Own Water Garden
\$2.00	Storey Guide - Grow a Butterfly Garden
\$2.00	Storey Guide - Using Beneficial Insects
\$2.00	Storey Guide - Controlling Garden Weeds
\$2.00	Storey Guide - Building and Using Cold Frames
\$1.00	Prairie Moon Nursery 1998 catalog & cultural guide
<b>Videos</b>	
\$22.00	Attracting Butterflies to your Backyard
\$18.00	Guide to Medical Roots and Herbs

Books are purchased by the Hawthorn Chapter for sale at events like Day with Wildlife, Earth Day, and Columbia's Heritage Festival. If you would like to purchase books from this list:

- Send a list of the book titles with the quantity for each.
- Add \$3.20 for the first book and \$1.00 for each additional book to cover shipping costs.
- Include your name, address and phone number, and shipping destination.
- Enclose a check for the amount of the books and the shipping.
- Make check out to: Hawthorn Chapter of the Native Plant Society.
- Do **not** send cash.
- Send your request to: Pam Haverland, 6901 Ginlet, Columbia, MO 65201

**Notice**—Requests will be made from the Hawthorn Chapter's inventory (which is replenished about twice a year). Some books may currently be out of stock. If there will be a delay in sending a book, you will be notified.

## New Publications Available

by Pam Haverland

The Federal Interagency Committee for the Management of Noxious Weeds has a fact book and workshop proceedings on invasive species. Prepared by Randy Westbrook, US Department of Agriculture, the fact book contains a chapter on understanding the problem and then chapters on the impacts, status and trends of invasives by habitat groups. There is also a further reading list in the back.

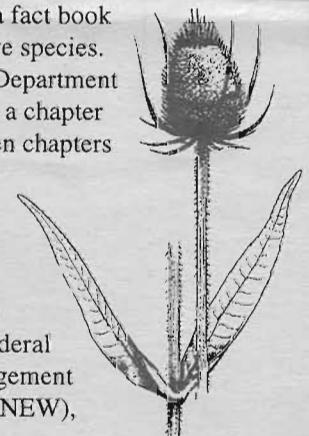
The citation is: Westbrook, R. 1998. Invasive Plants—Changing the Landscape of America, Fact Book Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW), Washington, D.C. 109 pp.

Copies can be obtained from the Government Printing Office (Invasive plants: changing the landscape of America: fact book. 1998. United States. I 49.2:P 69/11. [[0612]]. See their web site: [http://www.access.gpo.gov/su\\_docs/sale.html](http://www.access.gpo.gov/su_docs/sale.html)

An electronic version will be available within a month and the url will be posted on the MONPS web site and in the next *Petal Pusher*.

An accompanying book is Invasive Species Databases, Proceedings of a Workshop. This book outlines some of the data available on invasive species. An electronic version is available at

[http://www.nbi.gov/invasive/workshops/proceeds\\_lv.html](http://www.nbi.gov/invasive/workshops/proceeds_lv.html)



## 1999 Winter Board Meeting

**COLUMBIA, MO – DECEMBER 4, 1999**

All Missouri Native Plant Society members and friends are invited to attend the winter MONPS state board meeting. If you want to have a voice in **your** Society, now is your chance. This is a business meeting, so plan to stay all day. The meeting starts at 9:30 AM and will end not later than 4:00 PM. We will be meeting at the Dunn-Palmer Herbarium. See directions below.

Coffee and hot water will be available during the morning (bring your own teabags and instant de-caf if you need those). Also provided will be bagels and cream cheese. Many restaurants are nearby for lunch to order out or eat in. Or bring a lunch if desired.

### FIELD TRIP IDEAS FOR 2000

If you have any ideas where you would like MONPS to visit on the field trips associated with the Quarterly Board meeting, join us in Columbia. Or you may contact an officer or board member with your suggestions before the meeting.

### DIRECTIONS

**To Dunn-Palmer Herbarium:** From the east, drive west on I-70 to (Exit 128), take U.S. Hwy 63 S, towards Jefferson City; go south to the Stadium Blvd. exit. Then west to the second light (this cross street is named College Ave. to the North, Rock Quarry Rd. to the south). Drive south ≈ 1/8 mile on Rock Quarry Rd., turn right into driveway and park near the "Museum Support Center."

From the west, drive east on I-70 to (Exit 124) take Stadium Blvd. south. Stay on Stadium Blvd. as it goes south and then curves east past the football stadium and the Hearn's Basketball Arena. Turn right (south) on Rock Quarry Rd. (there is a stop light here) and drive south ≈ 1/8 mile, turn right into driveway and park near the "Museum Support Center."

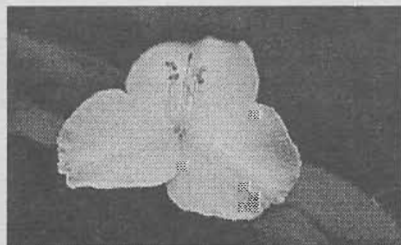


photo: jahar

*Tradescantia ozarkana*

## Photo Exhibit

Thirty prints of Plants of Conservation Concern and Their Environments by MONPS member, Casey Galvin, St. Peters, MO will be on display on the following dates:

- January 23, 2000 - March 23, 2000  
Missouri Botanical Gardens, St. Louis, MO
- April 15, 2000 - April 30, 2000  
West Plains Civic Center, West Plains, MO
- December 1, 2000 - January 31, 2001  
Powder Valley Nature Center, Kirkwood, MO

## Letters

Note: The following is a letter received in response to the award conferred by MONPS at the IBC. See September-October Petal Pusher, page 7.

Mr. Jack H. Harris, President  
Missouri Native Plant Society

Dear Mr. Harris:

My sincere gratitude to you and the members of the Missouri Native Plant Society for bestowing the award of "Best Representation of a Native Midwestern Plant" on my watercolor *Sarracenia purpurea*. I was honored to be included in this prestigious exhibition, and receiving this award makes it even more gratifying. I wish I could have seen all the work in person.

The pitcher plant is a native of New Jersey, too, and I am very fond of this plant. I am especially pleased that this illustration won an award, because I believe that it is technically one of my best works.

I enjoyed your eloquent letter so much that I purchased a frame to display it in my studio. I'll reread it any time I'm experiencing "painter's block;" that point in the painting when you are trying to decide whether to continue or rip this one up and start again! I've always found a little inspirational break solves all ills!

Again, thank you so very much.

Sincerely, Robin A. Jess, August 10, 1999



## MONPS Badge of Achievement Awarded

The badge committee recently awarded the MONPS Badge of Achievement to Kathryn Hoffmann of St. Louis, Missouri. Kathryn made a very nice submittal that was well received by the two committee members who had the pleasure of reviewing it. She deserves our congratulations upon completing this project.

Our unique pink and yellow cone flower badge can only be obtained by making a successful submittal for this program. It is a challenging little exercise, but should be lots of fun as well. If anyone would like information on earning this award, send a SASE to the archivist. James L. Bogler, 7916 Colonel Dent Drive, St. Louis, MO 63123 (314)-842-0111, jbogler@primary.net

## Welcome to New Members

We're happy to welcome these new members to the Missouri Native Plant Society. We hope you will join us soon at some of our upcoming meetings and field trips.

- Laura Gray, Liberty
- Yvonne Homeyer, St. Louis
- Lawrence Lewis, Osceola
- Shirley Pearlstone, Manchester
- Doris Sherrick, Peculiar

## Quarterly Board Meeting Highlights

SEPTEMBER 11, 1999

President Jack Harris, 14 board members and 4 guests met at the Fort Davidson Restaurant, Pilot Knob, MO.

**Appointed Officers.** All appointed officers agreed to continue in their positions. It was Moved, Seconded & motion Carried (MSC).

**Treasurer's Report.** Treasurer Donna Kennedy reported a balance of \$10,603.14 as of 11 September, 1999.

**Membership.** There have been three new members since June. Membership now stands at 375, including affiliates.

**Missouriensis.** George Yatskiyevych reported that he has one submission for the next *Missouriensis* so far: A History of MONPS by Larry Morrison.

**Petal Pusher.** Pat Harris requested bios on remaining board members. Also for articles.

**Distribution of copies.** The Chapter Reps were requested to ask their Chapter leaders if they would like copies of the Petal Pusher for public distribution, and if so, how many copies would be needed of each edition. The cost to print a single copy is currently \$0.599. If there is no response from a Chapter at the December meeting it will be assumed that no copies are desired. Osage Plains has requested 10 copies of each issue.

**Web Page.** Robin Kennedy reported that she had received one photo from Jack Harris, and six from Clair Kucera for inclusion on the web page.

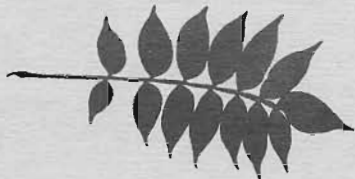
**MTNF Task Force:** Jim Bogler was appointed Chair. Other members are: Jack Harris, Donna Kennedy, Dave Schilling and Ann Wakeman.

**CARA/Teaming with Wildlife.** Tim Smith reported that it is still hoped that some legislation will be passed this year. It will probably be rolled into one bill. Bruce Schuette encouraged us all to continue to write letters. Sue Hollis suggested that each member write on subjects that are important to them.

**MODOT.** There was discussion concerning the reported policy of more mowing of the roadsides. All members were asked to call 1-800-ASK-MODOT and let them know how each would like the roadsides to look. Also write to your local regional Highway Engineer.

**Archives.** Jim Bogler reported that a badge had been awarded recently to Kathryn Hoffmann of St. Louis. (See article on page 3.)

**Public Charities in MO.** There will be a one day seminar on 16 November 1999. It was MSC to send Donna Kennedy to the Seminar. She will present a summary at the December meeting, and also write a report for the *Petal Pusher*.



## The Highest Field Trip in MO

11 SEPTEMBER 1999

by Jack H. Harris

It was a dark and stormy night - or rather, many were wishing that was the case. The vicinity around Iron County was suffering the effects of an extended period with little or no precipitation and high summer temperatures. The igneous based hillside forests reflected this condition with large, erratic mosaics of solid brown, alternating with dark green and blotches of various shades of green fading to brown. Few if any leaves were falling - merely turning brown. But it was time for the quarterly MONPS field trip and board meeting, so: On Friday evening 24 members and friends gathered at the Ozark Regional Library in Ironton to hear Janet Price, Naturalist, Johnson Shut-ins State Park. Janet presented a slide program and narration that described natural points of interest, examples of native flora, and recreational opportunities at Taum Sauk State Park. Included was a condensed summary of the areas geologic history that produced the surface exposure of the some of the oldest rocks in North America. Thus the group was the primed for what was to follow the next day.

The 24 field trippers gathered at 8:30 AM Saturday morning and headed for Taum State Park and the highest point in the state. One might observe that it was all downhill from there - but that was not to be. After visiting the monumented highest point (where we encountered members of another "Club", i.e., The Highest Point Club), the trail led down to Minne Sauk Falls (only a small trickle of water) and then we were obliged to hike back up to the highest point again. On the way we passed a few places where shallow depressions in the granite had trapped moisture allowing a few plants to continue the struggle against the drought.



photo: jahar

Examples were *Rhexia virginica* (*Rhexia virginica* (meadow beauty), *Vernonia missourica* (ironweed), *Liatris pycnostachya* (button snake-root), *Aster turbinellus* (prairie aster), *Liatris squarrosa* (scaly blazing star), *Crotonopsis elliptica* (rushfoil), *Hypericum gentianoides* (orange grass), and *Eleocharis ovata* (spike rush). At the first such location the group startled what everyone thought was a small brown snake. Bruce Schuette corrected that by advising that it was an *Ophisaurus attenuatus attenuatus* (glass lizard). On the back loop of the trail, up hill along the creek *Osmunda regalis* (royal fern), *Alnus serrulata* (common alder), *Agalinis gattereri* (rough-stemmed gerardia), and *Physostegia virginiana* (obedient plant) was noted.

After lunch at the picnic area on Taum Sauk Mountain, the group drove to the Millstream Gardens Conservation Area and hiked along the St. Francois River (with barely any

running water) which has scoured out the shut-ins scenery over the eons. A few of the plants noted were *Euonymus americanus* (strawberry bush), *Lobelia siphilitica* (blue lobelia), *Cephalanthus occidentalis* (buttonbush), *Froelichia gracilis* (slender cottonweed), *Cheilanthes lanosa* (hairy lip fern), *Aristolochia tomentosa* (Dutchman's pipe), *Passiflora incarnata* (maypops); and this time we really did see a snake. An apparently healthy and active *Agkistrodon piscivorus leucostroma* (cottonmouth) which was also identified by Bruce Schuette. After many photos, checking our lists, and the clock, which was running towards late in the day - another enjoyable trip was at end.

(We wish to extend our sincere appreciation to Tim Smith, Field Trip coordinator, for planning and leading the trip, to George Yatskievych for his patient handling of the plethora of questions about plant species identification, and to Bruce Schuette for the field herpetology orientation.)



## Chapter News

**Hawthorn Chapter** — Programs: In June, Bill Clark, one of the founders of the Hawthorn Chapter gave a presentation on wildflowers around the world. Bill is an international scout for the Atlanta Braves and carries his camera with him on scouting trips to Central America, South America, Australia, and Africa. At the July meeting, Mike Leahy, Naturalist for the Missouri Department of Conservation gave a program on natural areas in Central Missouri. In August, Pam Haverland, US Geological Survey, demonstrated the Missouri River InfoLink. The InfoLink is a clearinghouse for Missouri River information. It can be accessed over the web at <http://infolink.cr.usgs.gov>

At the September meeting, there was a discussion of by-laws changes. The chapter is changing the term for officers to two year terms. Also, plans were made for the Heritage Festival, September 17-18 at Nifong Park, Columbia.

**In Memory** — The Hawthorn Chapter mourns the passing of Terry Turner, a long-time Missouri Native Plant Society member. She died June 17, 1999 at Boone Hospital Center, Columbia, MO. She will be missed.

**Kansas City** — We had a great field trip in June to Snowball Hill Prairie, a privately held tract in Cass County. Under the leadership of Larry Rizzo, we found 56 species of plants in just two hours! The next field trip is in September, as is our next meeting. The final meeting of the year will be in November.

**Osage Plains** — There weren't any meetings in July or August. Field trip highlights: At the nature trail in the Grand River Bottoms near the end of Second St. in Clinton, we saw Lemon mint (*Monarda citrodora*) a new report for Henry Co. according to Steyermark. We also saw the largest cottonwood tree we had ever seen, perhaps the largest in Henry County.

On July 10, we went to Deepwater, an MDC site. It is a mixture of prairie and sandstone glade. Seen there was fame flower (*Talinum calycinum*) and longhead prairie coneflower (*Ratibida columnifera f. pulcherrima*). On a very hot July 24th, southeast of Clinton, we saw a plant new to C.F. Eaglesfield and, of course, to the rest of us. It turned out to be rose gentian (*Sabatia angularis f. angularis*). On an August field trip on an MDC trail leading to Truman Reservoir the most interesting find was a white clematis escaped into the wild (*Clematis teriflora*).

Late summer in our area is dominated by yellow wild flowers. First there were great patches of compass plant followed by common rosinweed which is now evident everywhere along country roads. Tickseed sunflowers are just beginning to bloom and soon they will cover hundreds of acres around the lake with a blanket of gold.

**St. Louis Chapter Report** — Greetings from the Gateway to the West. The St. Louis chapter took an active, hands-on approach to our summer meeting schedule, and I for one enjoyed the change of pace. I can only look at a certain number of slides with crisp focus and perfect color rendition before I take it out on my camera. In June we took advantage of one of the longest days, meeting in Forest Park to look at the results of work on Forest Park Savanna. Even a light rain couldn't dampen the enthusiasm of the group! In July, our own Nels Holmberg, who has been studying the Asteraceae, gave us a tour of that family, nicely illustrated with living specimens collected at his Whiskey Creek Farm. After detailing the characteristics of a generalized Aster, he went on to show us by example how the members of the family exhibit many variations on this 'standard' pattern. The last of our long-day meetings was held in August at the Missouri Botanical Garden Arboretum at Gray's Summit, MO. James Trager and Amy Haake were great hosts, first feeding us in style on their large front porch and then leading us in the 'back door' of the Arboretum to the wetland area which has developed into a real attraction. Lit only by the full moon, we hiked around the ponds, serenaded by the sounds of crickets and katydids. Back at James & Amy's we lingered, talking and enjoying the evening.

We also found time for some field activities on the weekends, taking trips to the Iron Mountain and Bismark Lakes for Pat Grace's usual summer check on the Purple Fringeless Orchids. Pat and Jack Harris gave us a graphic lesson on the hot and dry conditions found on Missouri's glades. The trip to Victoria Glades was a pore-opener with the added attraction of Blue Hearts,



*Platanthera peramoena*  
purple fringeless orchid

photo: jahar

## TIDBITS

### MIRACLE PESTICIDE

An advertisement in a recent environmental newsletter proclaims introduction of "The Pesticide of the New Millennium." The new product promises a natural solution in the ultimate weapon against pests as an alternative to toxic and polluting pesticides, using no chemicals, long lasting, pleasant scent, and safe to children and pets. The product is recommended for insect, slug and snake control. The ad claims the material is "highly repellent" to these pests, but is careful not to claim "elimination," so perhaps the target pests simply move from one place to another. By now, a reader may have guessed that the raw material is none other than red cedar (*Juniperus virginiana*) of which Missouri has an abundant supply of raw material. The product is marketed as "CedarCide Decorative Chunks" which claim to have a very slow decomposition rate and the large pieces are less likely to wash away in heavy storms.



### HUMULUS

A botanical calendar pad entry for August 31 provided the following information. The hop vine (*Humulus lupulus*), from which beer is made, belongs to the same family, Cannabaceae, as marijuana (*Cannabis sativa*), the two being closely related. Efforts in the 1970s to reach a new "high" in beer making and plant culture by grafting the latter on the former yielded disappointing results.

## Missouri Watershed Information

by Pam Haverland

If you want information about a watershed in Missouri, go to MoWIN (Missouri Watershed Information Network) at <http://outreach.missouri.edu/mowin> or call 1-877-h2o-shed (426-7433). MoWIN is a partnership of state and federal agencies, non-governmental organizations, natural resources interest groups, and private industry working together to facilitate access to watershed information in Missouri. By providing the first point-of-access, they hope to have less duplication of effort, a greater degree of cooperation and coordination among projects, and easier access to information for Missourians. While MoWIN should save time and money for all involved, the ultimate goal is improved water quality in Missouri. MoWIN's director is Joe Dillard and MoWIN is located at the University of Missouri in the Extension Program. Please check out their web page, there is Acronym City, Agricultural and Natural Resources Contacts, MoWIN NEWS, About MoWIN, Partners, Meetings/Events Calendar, Watershed Project NEWS, Educational Resources, Watershed Resources, and Grants and Funding Sources.

## Corrections

In the report on the quarterly field trip in the September-October 1999 issue of the *Petal Pusher*, the trip leader Blane Huemann's name was spelled incorrectly. Blane is the Preserves Manager, The Lower Ozarks Project Office of The Nature Conservancy. The office is located at Van Buren, MO.

The illustration on page 9 of the September - October 1999 issue of *Petal Pusher* was entitled "Leafhoppers eating *Amphicarpea bracteata*." I have been advised (thanks to Rev. James Sullivan & Marshall Magner) that leafhoppers do not either consume or employ leaf tissue in the manner shown in the photo. The holes in the leaves were apparently done by an unknown larva that had cut and then rolled the leaf tissue. The photo was taken at St. Joe State Park in early June. If anyone would care to venture an identification of the critter that does behave as illustrated - I would appreciate hearing about it (see address, etc., on back page). JHH

## NEWS from "News from MO—1999"<sup>1</sup>

The team that is working on the second volume of *Steyermark's Flora of Missouri - Revised* is in place and busy at the Missouri Botanical Garden, St. Louis, MO. The Flora of Missouri Project is directed by George Yatskievych. His new assistant is Michele Williams - who replaced Bill Summers after he retired this last June. In addition Alan Whittmore has recently joined the Project and is working on treatments of certain dicot families. Pat Walker and Kathleen Wood are continuing to provide volunteer support.

<sup>1</sup> NEWS From MO 1999; Newsletter concerning research activities at the Missouri Botanical Garden, St. Louis, MO.



## News Worth Marking Up

We are happy to report that the table on page 7 is out of date. Please change the number of flowering plants listed in the column "SX" from 57 to 56. And then adjust the affected totals as appropriate.

The 27 August 1999 discovery of *Rhynchosia difformis* (double-formed snoutbean) growing in Scott County has made this statement possible. Karen Kramer, George Yatskievych and a party of eight were exploring an area near Blodgett when Karen noted an unusual twining legume. The species identification was later confirmed by George back at the Missouri Botanical Garden. The last record of the plant in Missouri was from a collection of 24 August 1900 in Dunklin County.

# Missouri Plant Species of Conservation Concern

## THE LAST REPORT IN THIS MILLENNIUM

by Jack H. Harris

The following table is a summary count of plants determined to qualify for ranking as to their degree imperilment in Missouri. It is derived from the Missouri Department of Conservation (MDC) report "Missouri Species of Conserva-

tion Concern Checklist - June 1999." Note that the values listed in the right hand column are not the sums of ranked/ listed species but are estimates of the total statewide taxa (from other sources identified below).

PLANT TYPE	RANK									Total Mo Taxa	
	S1	S2	S3	S4	S5	S?	SX	S Other	#Listed		
Lichens	12	2					7		5	26	
											≈ 436 <sup>1</sup>
Liverworts	9						6		2	17	
											≈ 400 <sup>2</sup>
Mosses	47						25	1	12	85	
Ferns & Allies	11	6	1					2	5	25	
											≈ 2382 <sup>3</sup>
Flowering Plants	179	97	17	1	0	0	57		96	447	
Totals	258	105	18	1	0	38	60		120	600	≈ 3218

Where: S1 = critically imperiled, extremely rare and / or vulnerable, 5 or fewer occurrences; S2 = imperiled due to rarity or vulnerable to extirpation, 6 - 20 occurrences; S3 = rare and uncommon, 21 - 100 occurrences; S4 = widespread, many occurrences but of long term concern; S5 = widespread, abundant; S? = Unranked; SX = extirpated from the state; S Other = aggregate of various tentative rankings due to lack of data, uncertain sources, etc.<sup>4</sup>

Notice that the aggregation of the first three columns and the last two rows above indicates that the continued existence of 311 taxa of ferns and flowering plants in Missouri are likely to be in some degree of short term jeopardy. And these kinds of plants are the most commonly known and observed. But that is a large number of individuals to try to recognize.

We recommend familiarization with these listed species so that the values in the column SX are not increased due to inadvertent human activities.

<sup>1</sup> The total number of Lichens (taxa) in Missouri as reported in "Checklist and Bibliography of Missouri Lichens" by Douglas Ladd, 1996; Conservation Commission of the State of Missouri.

<sup>2</sup> The total number native taxa of Bryophytes (Liverworts and Mosses) in Missouri as estimated in "The Biodiversity of Missouri: Definition, Status, and Recommendations for its Conservation," 1992. Missouri Department of Conservation & the Mark Twain National Forest, USFS.

<sup>3</sup> The total number of native taxa of vascular plants (ferns & flowering plants) estimated at the end of 1997. See Table 7, page 83 in *Steyermark's Flora of Missouri*, Revised Edition 1999, by George Yatskiyevych, Missouri Department of Conservation and the Missouri Botanical Garden.

<sup>4</sup> The S1 ... S5, etc., ranking system was developed by The Nature Conservancy, Conservation Science Division and adapted for use by MDC.

### INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY

#### SOCIETY DUES

(Chapter dues additional)

Student ..... \$5.00  
 Regular ..... \$9.00  
 Contributing ..... \$20.00  
 Life ..... \$200.00

#### CHAPTER DUES

Columbia ..... \$6.00  
 Jefferson City ..... \$5.00  
 Kansas City ..... \$5.00  
 Osage Plains ..... .00  
 St. Louis ..... \$5.00  
 Springfield ..... .00

(Circle all that apply)

Make check payable to: Missouri Native Plant Society

Mail to: Donna Kennedy, Treasurer  
 816 Samone Ct., MO 63021

Name \_\_\_\_\_  
 Street \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone \_\_\_\_\_  
 e-mail \_\_\_\_\_

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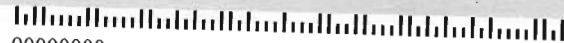
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