July-August 1997

Vol. 12, No. 4

Missouri Native Plant Society

July		
5	Sat., 9:00 AM St. Louis	Field Trip to Fults Hill Prairie to see Blue Hearts, led by Pat Grace. Meet at South County Shopping Center near Dobbs Tire Center for car pooling.
12	Sat., 9:00 AM Clinton	Field Trip. Meet at the Clinton Courthouse. Destination to be determined.
12	Sat, 9:00 AM St. Louis	Field Trip to Iron Mt. Lake & Bismark Lake to see the Purple Fringeless Orchid, led by Pat Grace. Meet at So. Co. Shopping Center near Dobbs Tire Center for car pooling.
14	Mon., 6:00 рм Columbia	Monthly Meeting & Pot Luck at Franklin Farms. Robin Jennings, student at the Univ. of MO will talk to us about her study of insects associated with native wildflowers.
16	Wed., 7:00 PM Kansas City	Monthly Meeting at the garden of Dan Rice. Call Dan for more information and directions, 816–461–0206.
17	Thur., 4:30 pm Clinton	Field Trip. Meet at the Clinton Courthouse. Destination to be determined.
19	Sat., 10:00 AM	Joint Field Trip with the Iowa Native Plant Society. See article on page 2.
23	Wed., 7:30 St. Louis	Prairie Restoration program presented by Richard Clinebell of St. Louis University. Monthly meeting at the Missouri Botanical Garden, Ridgway Center.
26	Sat., 9:00 AM Clinton	Field Trip. Meet at the Clinton Courthouse. Destination to be determined.
August		
2-3	SatSun. St. Louis	Field Trip to Carter County to see the Yellow Fringed Orchid, led by Bill Summers. See article on page 2.
5	articles (typed double-s	for September-October <i>Petal Pusher</i> . Please send meeting and field trip information and spaced) to the editor by this date. If article has been word processed on a Macintosh, please at Harris. Disk will be returned. Or send e-mail to: pharris@stlnet.com
9	Sat., 9:00 AM Kansas City	Outing to the Butterfly Garden at the Kansas City Zoo. Meet at the zoo gate in Swope Park, and bring your lunch for a picnic.

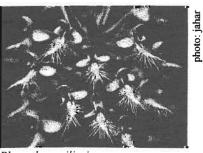
9	Sat., 9:00 AM Clinton	Field Trip. Meet at the Clinton Courthouse. Destination to be determined.
14	Thur., 4:30 PM Clinton	Field Trip. Meet at the Clinton Courthouse. Destination to be determined.
20	Wed., 7:00 PM Kansas City	Monthly Meeting at Loose Park Garden Center. Program to be announced.
23	Sat., 9:00 AM Clinton	Field Trip. Meet at the Clinton Courthouse. Destination to be determined.
23	Sat., 8:00 AM St. Louis	Field Trip to prairie remnants near Springfield, IL, led by Nels Holmberg and Jim Polaine. Meet at the Missouri Botanical Garden parking lot (NW side) at 8 AM or at the Shell truck stop at the Troy, IL exit off I-55 at 8:30 AM.
27	Wed., 7:30 PM St. Louis	Wetlands, Fens, Springs, Creeks, Sinkhole Ponds and what grows in them. Program presented by Bill Summers, author of <i>Missouri Orchids</i> . Monthly meeting at the Missouri Botanical Garden, Ridgway Center.

Advance Notice: The Systematics Symposium date is 17–18 October 1997. Location: Missouri Botanical Garden, St. Louis, MO. Registration is required. For info: P. Mick Richardson, 314–577–5176, fax 314-577-9596, e-mail, richards@mobot.org

Missouriensis

At its spring meeting the MONPS Board voted to change the printing schedule of *Missouriensis* from twice a year to once a year. This became necessary because of the lack of submissions to our Society's journal. All members are encouraged to submit short or long articles to *Missouriensis* on any topic relating to the goals of the Missouri Native Plant Society. Publication of a journal is one of the most important services that MONPS provides to the botanical world. A number of college and university libraries subscribe to *Missouriensis*, as well as the State Historical Society. If receiving a journal is important to you, please help!

George Yatskievych Missouri Botanical Garden P.O. Box 299 St. Louis, MO 63166-0299 U.S.A. tel. 314-577-9522, fax 314-577-9596 e-mail gyatskievych@lehmann.mobot.org



Platenthera ciliaris

Joint Iowa/Missouri Field Trip

The Iowa Native Plant Society invited us to join them on a field trip to visit Slip Bluff Park and a diverse savanna owned and currently being restored by INPS member Sibylla Brown. This is in Decatur County, on the Missouri/Iowa border between Leon & Lamoni, south of Des Moines.

Meet on July 19, 1997 at 10:00 AM at the picnic shelter in Slip Bluff Park.

Directions: Driving north on I-35 take the exit for US Hwy. 69 (just north of the Ia/Mo border; take US 69 north to Davis City. In about the middle of town there will be signs for Slip Bluff; just follow the signs from there.

Two Day Field Trip to Carter County

On August 2–3, Bill Summers will be leading us on a field trip to see the yellow fringed orchid (*Platenthera ciliaris*). We will meet Saturday at 10:00 AM at the junction of Hwy. B with Hwy. 60, 3/4 mile W of the Butler/Carter Co. line. This is approximately 5 miles SE of Ellisinore. We will be exploring Pump Hollow on US Forest Service land.

On Sunday, we will meet at Shoney's parking lot in Poplar Bluff at 8:30 AM. We may go to Poplar Bluff State Forest or another area on US Forest Service land.

Motels in Poplar Bluff for those wishing to drive down on Friday or stay over for the Sunday field trip are:

Super 8; 1-800-800-8000 or D

Drury: 1-800-325-8300

New MONPS T-Shirt

by Jack H. Harris

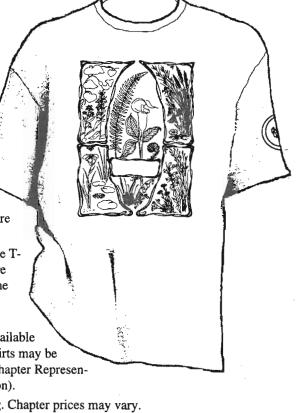
The Missouri Native Plant Society, always seeking ways to raise the level of public awareness about native plants and our natural heritage, is engaged in a T-shirt sales project. We are most fortunate to have been offered the talents of MONPS member Ann Grotjan whose design depicts 5 different habitats. Now we need a mechanism to distribute the message widely among a public that is silently yearning for someone to bring this to their attention. That is where you, the MONPS member, comes in.

You can help by buying and wearing the shirt. This will result in wide distribution of the message, and begin to contribute to the revenue of the program. And you can then advise an admiring public where they can also obtain their own copy of the shirt and join us in the celebration. You may also be able to assist your local Chapter, as Chapters share the profits of the T-shirts they sell.

The basic floristic design (in 4 colors) by Ann Grotjan appears on all of the T-shirts. As does the MONPS logo discreetly placed on the sleeve. However there are two variations available. One has the words "Celebrate Biodiversity"* in the small scroll area in the center of the image, and one has the words "Missouri Natural Areas 20th Anniversary."**

The shirts are 100% cotton and natural fiber color (i.e., light tan). Sizes available include large, extra large, and extra, extra large (sorry - all out of medium). Shirts may be purchased from the Chapters or from the Society. To purchase: contact your Chapter Representative or call or write to Jack Harris — (address, etc., on back of this publication).

Society Price: *\$15.00 plus \$3.00 shipping. **\$12.00 plus \$3.00 shipping. Chapter prices may vary.



Quarterly Board Meeting Highlights April 26, 1997

President Larry Morrison, 12 board members and 5 guests met at the Visitors Center at Cuivre River State Park.

Treasurer Jack Harris reported a balance of \$8,379.22.

Committee Reports

Archives: Jim Bogler said he has been receiving area flora lists for four years now. Keep sending them in.

Atlas of Missouri Flora: George Yatskievych reported that he had been given permission by Iowa State University Press to use the old Missouri county dot distribution maps from the Steyermark volume for this Flora.

Old Business

Badge Program: It was suggested that Chapters work on badges during their field trips. Several board members are looking into the possibility of advertising the program in appropriate publications.

Natural Areas Meeting: Three of our board members attended the symposium in Warrensburg. They reported it was an excellent program, but the attendance was low. Jack Harris sold 23 of the new Natural Areas T-shirts.

New T-Shirts: The shirts have been printed with two different slogans. The Society will sell the Natural Areas shirt for \$12.00 and the Celebrate Biodiversity shirt for \$15.00. The Society spent \$3300.00 for 350 shirts.

Nominating Committee: Tim Smith as chairman reported there were no other nominees. George Yatskievych of the Ballot Committee moved the election of the nominated candidates.

Regional Sources of Native Plants: Sue Hollis updated the information and made it more comprehensive. She sent out 55 questionnaires to nurseries and received 30 responses. President Morrison thanked Sue and her committee for all the hard work that they put into the handout.

New Business

Missouriensis Future: In response to inquiry in last issue, Larry Morrison received six responses, all positive about continuing the journal. George Yatskievych reported that he still needs material for the journal. John Oliver proposed that we publish only once in 1997, and make memberships to institutions free from 1998 forward.

Note Cards: Ann Wakeman passed around a sample note card designed by Ann Grotjan, based on the new T-shirt design. She will ask Ann Grotjan to investigate the costs and inform the board of such.

Awards: George Yatskievych, committee chairman, announced that the committee will be giving awards in two of the five categories.

Annual Meeting & Awards

The Annual Meeting was held on June 14, 1996 at the Stockton State Park Inn.

President Larry Morrison called the meeting to order and thanked the outgoing Officers and Board Members. He then welcomed and introduced the Officers and Board members for 1997-1999.

George Yatskievych, chairman of the Awards committee, presented the Awards. The award consists of a wood plaque in the shape of Missouri with a label on which is engraved the recipient's name, award, and statement of contribution.

Three of the five MONPS awards were given this year. They went to:

Timothy E. Smith – Jefferson City Chapter, received the Arthur Christ Research Award, for his continuing studies on the floristics and conservation of the plants of Missouri.

Jack and Pat Harris – St. Louis Chapter, received the Award of Service, for their dedication and outstanding contributions to all aspects of the Missouri Native Plant Society. (This is the first time this award has been presented.)

Dr. David Castaner – Warrensburg, received the Julian A. Steyermark Award, for nearly three decades of teaching and guidance of students in botany and for his dedicated research on the vegetation and flora of Missouri, especially the genus *Carex*.

New Officers & Board Members 1997-1999

Since no additional nominees were received, George Yatskievych, of the Ballot Committee announced that the slate of officers selected by the nominating committee and published in the March-April *Petal Pusher* will stand as nominated. This slate was elected by acclamation.

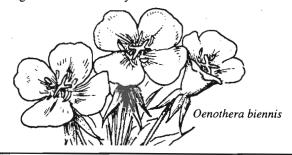
The Officer are:

President: Larry Morrison, O'Fallon, IL Vice President: Sue Hollis, Kansas City, MO Secretary: Lynda Richards, Rolla, MO Treasurer: Jack Harris, St. Louis, MO

The Board Members whose terms expire in 2000 are: Ann Wakeman, Fulton, MO

Ann Wakeman, Fulton, MC Tim Smith, Jefferson, MO

Congratulation to all of you!



New Exotic Plant Species Policy

The Conservation Commission and its derivative the Department of Conservation is charged by the citizens of Missouri, via the State Constitution, for "The control, management, restoration, conservation, and regulation of the bird, fish, game, forestry and all wildlife resources of the state..." In recognition of the growing threat to our natural ecosystems posed by immigrant harmful exotic species of plants in

Missouri, the Commission has adopted a strengthened management policy on this subject. This new policy contains a list of currently identified problem species (see Table 1). The list is presented here for the information, guidance and assistance of all who may be concerned with this matter. We urge all MONPS members to support the goal of eliminating, controlling or suppressing problem exotic plant species.

Jack H. Harris, Environment & Education Committee

Exotic Plant Species POLICY

Native plant species will be used for restoration and management activities on Department owned, leased and managed lands and waters, except as otherwise provided by this policy. When recommending management alternatives to the public or other government agencies, Department personnel shall encourage the use of appropriate native species and discourage the use of problem exotic species.

Exotic plant species may be used or recommended when no native species exist that provide the desired effects and benefits, and the exotic species are unlikely to displace or compete with native species or alter the natural communities in which they are used. Agricultural crops that may be planted on Department owned or managed areas are exempted from the above restrictions unless it can be shown that they aggressively spread from planted areas. Exotic plant species that have not been identified as threats to native ecosystems may continue to be recommended for planting in developed areas.

DEFINITIONS

Exotic species – Those plant species not considered indigenous to the state according to historical or scientific record.

Native or Indigenous species – Those plant species occurring naturally in the state, according to historical or scientific analysis.

The plant species listed in Table 1 have been identified as possing particular threats to native ecosystems. These exotic species shall not be planted on Department owned, managed, or leased lands except for the designated permissible uses and then only after consideration of the alternative plants suggested.

Existing populations of these species on Departmentmanaged lands should be eradicated or controlled as is practical, with emphasis on critical habitats and natural areas. Established March 1997

TABLE 1 — (PROBLEM EXOTIC PLANT SPECIES IN MISSOURI)

Common Name	Scientific Name	Permissible Uses	Potential Alternatives
Amur honeysuckle	Lonicera maackii	none	deciduous holly, crabapple, plums, shrub dogwoods
Amur maple	Acer ginnala	none	red maple
Autumn olive	Elaeagnus umbellata	none	hawthorns, plums, ninebark, hazelnut, aromatic sumac, shrub dogwoods
Black locust *	Robinia pseudo-acacia	none	hawthorns, crabapple
Canada thistle **	Cirsium arvense	none	none
Caucasian / Eurasian bluestem	Bothriochloa spp.	none	native warm-season grasses
Chinese bittersweet	Celastrus orbiculatus	none	American bittersweet, Virginia creeper
Cinnamon vine	Dioscorea batatas	none	Virginia creeper
Common buckthorn	Rhamnus cathartica	none	carolina buckthorn, shrub dogwood
Crown vetch	Securigera varia	none	native warm-season grasses, timothy, smooth brome, orchard grass, Kentucky bluegrass, Canada wild rye, Virginia wild rye, purpletop
European cranberry bush	Viburnum opulus	none	rusty black haw, black haw, shrub dogwoods
Field bindweed **	Convolvulus arvensis	none	none
Garlic mustard	Alliaria petiolata	none	none
Japanese knotweed	Polygonum cuspidatum	none	ninebark
Japanese honeysuckle	Lonicera japonica	none	native honeysuckles, Virginia creeper
Johnson grass **	Sorgham halepense	none	Eastern gama grass
Kudzu	Pueraria lobata	none	none
Morrow honeysuckle	Lonicera morrowii	none	deciduous holly, crabapple, plums
Multiflora rose **	Rosa multiflora	none	prairie rose, pasture rose, hawthorns, plums, ninebark, hazelnut, aromatic sumac, shrub dogwoods
Musk thistle **	Carduus nutans	none	none
Osage orange	Maclura pomifera	maintained hedge	native plums, hawthorns and dogwood
Perfumed cherry	Prunus mahaleb	none	native plums
Privet	Ligustrum spp.	none	hazelnut, fragrant sumac
Purple loosestrife **	Lythrum salicaria	none	swamp milkweed, Hibiscus spp.
Reed canary grass	Phalaris arundinacea	none	eastern gama grass, Virginia wild rye, prairie cordgrass
Sericea lespedeza	Lespedeza cuneata	none	native warm-season grasses, native lespedezas, timothy, smooth brome, orchard grass, Kentucky bluegrass
Scotch thistle **	Onopordum acanthium	none	none
Tall fescue ***	Festuca arundinacea	critical area erosion control	native warm-season grasses, timothy,smooth brome, orchard grass, Kentucky bluegrass, purpletop, Canada wild rye, Virginia wild rye, buffalo grass
Teasel, cut-leaved and common	Dipsacus laciniatus Dipsacus fullonum	none	none
Tree of heaven	Ailanthus altissima	none	cottonwood, pines, cedar
Wintercreeper	Euonymus fortunei	none	Virginia creeper

^{*} Native in parts of Missouri's Ozarks, widely introduced elsewhere in the state.

Missouri Department of Conservation

^{**} Missouri noxious weed - see separate policy titled Noxious Weeds.

^{***} Even on many sites requiring rapid erosion control (streambank stabilization, strip-mine reclamation, filter strips), alternative species are effective and also benefit wildlife.

Chapter News

restoration in north Missouri. In February, Ken McCarty, Chief of Natural Resource Management, Division of State Parks, Missouri Department of Natural Resources, spoke on the role of fire in savannah management. In March, Lorna Domke, Assistant Chief of the Public Affairs Division at the Missouri Department of Conservation (MDC), described the making of MDC's video "Blooming Secrets." In April, Tom Johnson, State Herpetologist MDC, presented a program on ephemeral pools and the frogs and salamanders which inhabit them. In May, Tracy Armstrong, Missouri Department of Transportation gave a presentation on the Adopt-A-Highway program and the wildflower planting along Missouri's highways.

Hawthorn Chapter — Meetings: In January, Larry Mechlin,

Hawthorn Chapter Vice-President discussed prairie chicken

Outings: In February, Ann Wakeman led a hike to Earthquake Hollow Conservation Area in Callaway County. In March, Jim and Joann Whitley led a trip to view snow trillium on their property in northern Boone County.

New display boards—Linden Trial, Ann Wakemen, Pam Haverland and George Brakhage have remodeled the Hawthorn Chapter display boards. The new boards have already been put to use at Columbia's Day with Wildlife, and Columbia's Earth Day Celebration. On both days, we sold plants, books and the new T-shirts, offered advice, and answered questions.

As a result of the May program, Jean Graebner learned about the Citizens Advisory Group to make recommendations to the City of Columbia on roadside plantings along AC after the improvements and construction. Jean volunteered to represent the Hawthorn Chapter.

Boone County passed a nuisance ordinance that makes it unlawful to permit growth of weeds or other rank or noxious plants (exceeding 12 inches). The County Commission has agreed to arbitrate any dispute between neighbors about wildflowers and grass plantings.

The City of Columbia is reviewing a proposal to create a 134 acre mountain bike trail at the north end of Cosmos Park, which is a natural area with a wetland. The Parks and Recreation Board will probably oppose it, — Larry Hines of the Hawthorn chapter is on the Columbia Parks and Recreation Board. The city is also considering expanding dog runs in five city parks. Besides destroying native vegetation this could also be dangerous.

Kansas City — We have had a full agenda this spring. May 3-4 found several members working at Powell Gardens selling native plants obtained from the Missouri Wildflower Nursery. This was our annual fund raiser, and it is also a way of educating the gardening public about the benefits of using native plants in the landscape.

May 10th was the date set aside for our annual pilgrimage

to Slip Bluff State Park near Lamoni, Iowa to see the white ladyslipper orchids found there. This year, unfortunately, our quarry eluded us; much to the disappointment of everyone. But, there is always next year!

On May 17, members traveled to Knob Noster State Park. The day was warm and clear, a perfect day for a field trip. Plant identification was nearly perfect, too, thanks to plant lists available at the headquarters building.

The speaker at our May meeting was Ed Bowers, a Naturalist with the Jackson County Park Service. He spoke on the Natural History Resources of Jackson County Parks.

June 7, members drove to the Z-Bar Ranch near Strong City, KS. This is in the heart of the Flint Hills, and what a place it is! We were reluctant to leave the roadside and parking area due to the amount of material there. This is definitely a place to return to again and again!

Osage Plains — At our most recent meeting on June 9 we enjoyed examining plants that were presently flowering in our area. We also had slides on summer Missouri wildflowers and slides of this spring's show at one or our member's 40 acres of virgin prairie. Afterwards refreshments were enjoyed.

The new T-shirts were shown. The members agree they are very nice. However, we need some mediums. Marlene Miller gave a report on a recent trip to Cuivre River State Park by her and her daughter and some of the plants they found on a 2 mile hike and a 3 mile hike. There was a lot of discussion on the prolific spring we have been enjoying and the things witnessed on field trips. Mr. Eaglesfield once again reminded everyone that he goes out frequently and would be pleased to take anyone anytime they are available; we can just gave him a call and set it up.

St. Louis — Don Kurz, author of Scenic Driving in the Ozarks, including the Ouachita Mountains, gave a slide show at our March meeting. He pointed out some botanically interesting stops along several of the drives listed in his book. He sold and signed his books following the program, and generously donated the profits to our chapter.

In April, Rick Thom, director of MDC's Natural History Division, spoke to us about the history of Missouri's Natural Areas committee on its 20th anniversary and the program.

Only five showy orchis were seen on a May 17 field trip to the Orchid Valley portion of Hawn State Park, compared to 25 seen in 1996. There was no lack of other late spring plants and interesting sandstone cliffs.

On May 31 the restored glades of Meramec State Park were covered with impressive stands of pale purple cone-flower and mullein. The exotic mullein should be crowded out as the scars from cedar burning fill in with glade plants.

At our May meeting, Dr. Marian Smith of Southern Illinois University-Edwardsville, spoke on her extensive research on Boltonia decurrens and its response to floods along the Illinois River and at its one site in Missouri along the Mississippi.

Tidbits *ルージージ

NEW EAGLE SPECIES DISCOVERED IN MISSOURI

While *Petal Pusher* does not usually cover birding activities, the editors thought the following item (courtesy of the Missouri Parks Association's April 1997 *Heritage* newsletter) might be of interest to our readers: Members of the National Association of Railroad Passengers recently wrote Vice President Al Gore pleading that Amtrak's Texas Eagle train (which stops in St. Louis on its Chicago-Los Angeles run) be saved. The response received was: "Thank you for your letter regarding the protection of the Texas Eagle," Gore wrote. "I share your view that the urgent problem of species extinction and the conservation of biological diversity should be addressed. All animals and plants help make our natural surroundings more diverse and should be protected to ensure the preservation of a healthy environment."

TEXAS CHAMPION TREES

While Missouri readers may not be familiar with Texas trees, those botany trip participants who sometimes question whether large trees might challenge state champions, will appreciate an article in the May/June 1997 Native Plant Society of Texas NEWS, titled "The Hunt for Chisos Red Oak," by Joe McEntire. The article describes the author's search in 1975 for Chisos red oak (Quercus gravesii) in Val Verde County near the confluence of the Pecos and Rio Grande Rivers, along with Joe Norris and Benny Simpson, based on Simpson's information from an 1848 survey. In what must be some kind of a single day, world tree champion record, the trio not only found the champion Chisos red oak, but also champion Texas pistache (Pistacia texana) and Vasey oak (Quercus pungens var. vaseyana) trees. These three trees turned out to be national champion big trees as well as Texas state champions.

MISSING LINK TREE

An article in the June 13 St. Louis Post-Dispatch announced the discovery by the Missouri Botanical Garden in the jungles of Madagascar, of a dinosaur-era tree, formerly thought to be extinct. The small tree, Takhtajania perrieri, is a member of one the oldest flowering plant families, the Winteraceae. Only a relatively few species of this family still exist, mostly on

South Pacific islands. Records of fossil pollen show that the plant once grew across much of Africa, but over the past 25 million years became extinct on the mainland. The tree, whose flowers resemble small magnolias, has many primitive features, including water transfer via pores, rather than systems of pipeline vessels as in modern plants. The tree was first collected by a French botanist in 1909 and most recently in 1994 approximately 100 miles from the original site by a Madagascar botanist, working in a Missouri Botanical Garden program. Scientists will study flowering, fruiting and other seasonal stages to obtain information on the tree's role in the early evolution of flowering plants.

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.

> Carter S. Brooksher, Elsberry Chris Buckley-Rohrer, Columbia Ann Case, St. Louis Denise Columbini, Columbia Carol E. Davit, Jefferson City John W. Harrison, Kansas City Martha & Rex Hill, St. Louis Cathy Seltsam, Columbia Rose Weigel, Rolla

> > Rudbeckia Drawing by Jim Zeibol

Native Plant Conservation Initiative

Members may want to check out the web site for the Native Plant Conservation Initiative (NPCI): http://www.aqd.nps.gov/natnet/npci

Revisions are being made monthly. New features being added include: NPCI grant information, kids corner, NPCI working groups information, resource listing, outreach activities, news desk and employment resources. If you would like to see something that's not already on their web page, send an e-mail message to: native_plant@nps.gov

INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY SOCIETY DUES CHAPTER DUES Make check payable to: Missouri Native Plant Society (Chapter dues additional) Columbia \$6.00 Mail to: Jack H. Harris, Treasurer Jefferson City \$5.00 9708 Green Park Road, St. Louis, MO 63123-7133 Student\$5.00 Kansas City \$5.00 Regular \$9.00 Kirksville00 Name Contributing \$20.00 Osage Plains00 Street Life \$200.00 St. Louis \$5.00 City, State, Zip Phone (Circle all that apply)

Vol. 12 #4 July – August 1997

Missouri Native Plant Society P.O. Box 20073 St. Louis, MO 63144-0073

FORWARD AND ADDRESS CORRECTION

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- New T-shirts
- MDC's Exotic Plant Policy

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