**VOLUME 6, NUMBER 3** 

**MAY-JUNE 1991** 

#### CALENDAR OF EVENTS

Jun 10, 7PM Columbia

Slide Show on Plant Photography, using slides showing excellent and poor photos, and tips on how to improve your slides, by Don Kurz, Missouri Dept. of Conservation. Monthly Meeting at Farm and Home Savings, 725 E. Broadway, downstairs in Community Room.

Jun 15-16 ANNUAL MEETING Field trip to Caney Mountain Wildlife Area, Ozark County, June 15, 9AM-5PM, meet at Wildlife Area Headquarters. Bring water and sack lunch. June 15, 5-7PM, barbecue at Caney Mountain Wildlife Area. June 15, 7-8PM, annual meeting and awards presentation following barbecue. Jun 16, 8AM-?, Board Meeting at Theodosia Marina.

Jun 20

DUE-DATE FOR MATERIAL FOR JULY-AUGUST PETAL PUSHER. Please send field trip information and articles to the editor by this date. Articles should be double-spaced and have the author's name, address, and phone number on them. If article has been wordprocessed please send copy on disk, which will be returned.

Jun 27, 7:30PM St. Louis

Slide Presentation on "The Ecology of Filipendula rubra (Queen-of-the-prairie)" by Nevin Aspinwall. Monthly Meeting at the Garden Room, Ridgway Center, Missouri Botanical Garden.

Jul 10, 7PM St. Louis

Field Trip to West Tyson Prairie. Steve Tiemann will lead walk at the prairie project supported by St. Louis Chapter in memory of the late William Epstein. Meet at West Tyson County Park.

Jul 13, 9AM St. Louis

Field Trip to Iron Mountain and Bismark Lakes in search of the Purple Fringeless Orchid (Platanthera peramoena) led by Pat Grace. Meet at South County Shopping Center northwest parking lot.

Jul 25, 7:30PM St. Louis

Slide Presentation on "Missouri Bees and Missouri Plants" by Mike Arduser. Monthly Meeting at the Garden Room, Ridgway Center, Missouri Botanical Garden.

Aug 8, 7PM St. Louis

Field Trip to West Tyson Prairie. Steve Tiemann will lead walk at the prairie project supported by St. Louis Chapter in memory of the late William Epstein. Meet at West Tyson County Park.

Aug 10

DUE-DATE FOR MATERIAL FOR SEPTEMBER-OCTOBER PETAL PUSHER. Please send field trip information and articles to the editor by this date. Articles should be double-spaced and have the author's name, address, and phone number on them. If article has been wordprocessed please send copy on disk, which will be returned.

Aug 15-17 (Jul 15 Deadline) Millersville, PA

Conference on "Native Plants in the Landscape." Cost including registration, food, and lodging is \$135 single or \$130 double. For information contact Grace Evans, Continuing Education, 104 Dilworth Hall, Millersville University, Millersville, PA 17551, 707-872-3030.

Aug 18-21 Springfield 2nd Conference on Agroforestry in North America, at the Holiday Inn University Plaza. For information contact the University Extension Conference Office, 344 Hearnes Center, UMC, Columbia, MO 65211.

Aug 26, 7:30PM St. Louis

Slide Presentation on "Wetland Vegetation" by Alan Brant, botanist with the Missouri Botanical Garden. Monthly Meeting at Missouri Botanical Garden, room to be announced.

Aug 27, time TBA St. Louis

Field Trip to unnamed local wetland area led by Alan Brant. Details to be announced.

Oct 8-11 St. Louis Workshop on Identification of Wetland Plants. See article on page 3.

Oct. 24-25 Indianapolis, IN Conference on "Exotic Species" at the Indiana State Museum. For more information contact Bill McKnight, Indiana State Museum, 251 E. Ohio, Indianapolis, IN 46204, 317-232-8178.

## MDC RECENT BOTANICAL PROJECTS

by Sylvia Forbes

The following information is summarized from Missouri Department of Conservation Annual Nongame and Endangered Species Report, July 1989 - June 1990, by Dennis E. Figg.

### Plant Studies.

Two plant studies were funded by MDC and have recently been completed. Dr. Nevin Aspinwall, of St. Louis University, worked on the population structure, genetics, and pollination biology of *Filipendula rubra*, a plant on the state endangered species list. Queen-of-the-prairie is only found in small populations in Missouri, in calcareous fens. His research focused on

Botkin Fen, and found that most of the stems at this fen belong to a large, single isolated clone. He also found that natural pollination was generally ineffective, resulting in poor achene production. He suggests that the lack of genetic variability is an important consideration for the long-term survival of Filipendula rubra.

Dr. David C. Ashley, from Missouri Western State College, studied the ecology of *Platanthera praeclara* (Western Prairie Fringed Orchid), a species listed federally as threatened and state listed as endangered.

This orchid has only been seen in recent years in two small populations in Northwest Missouri. Dr. Ashley's study focused on Tarkio Prairie and looked at the pollinator of this species, which is the sphinx moth. Of eleven species of sphinx moth found, only three were considered to be potential pollinators. Unfortunately, no plants flowered there that year.

## Restoration & Recovery Projects for Federally Listed Species.

In 1990, a draft of a recovery plan for *Boltonia* was made and finalized. Efforts were also underway to create a recovery plan for *Geocarpon*. Started in 1990 was a project to restore Running Buffalo Clover in Missouri. Three experimental plantings were established for study, to begin restoration of this species considered extirpated in Missouri. The U.S. Fish & Wildlife Service also has funded a project to establish new populations of *Lindera melissifolium* (Pondberry), which is currently only found in one location in Missouri.

## Management.

Dr. Michael Kelrick, of Northeast Missouri State University, is currently studying the seed ecology of the *Lesquerella filiformis* (Missouri Bladderpod), a federally endangered species. He is trying to assess

the role of seed bank in maintaining Missouri Bladderpod populations. This project is funded by the U.S. Fish & Wildlife Service.

Barbara Singleton, manager of data for the ginseng program, reported that in 1989 there were 3103 pounds of ginseng certified in Missouri, which includes 2782 pounds of wild dry root, 31 pounds of wild unknown root, and 290 pounds of cultivated dry root.

A project is underway to evaluate the prairie management program of

MDC. This project, which started in 1985, samples study areas every five years. Three areas were studied in 1990, including Osage Prairie, Diamond Grove Prairie, and Paint Brush Prairie.

## CHAMPION TULIP TREE TOPPLED

The State Champion Liriodendron tulipifera (Tulip Poplar) was blown down March 21 by a tornado that cut a swath through Howell County. The tree stood 122 feet tall and had a circumference of 17 feet. Its branches spanned an area 91 feet across. It had been the state champion since 1981. It was 150 years old.

Nominations for new state champion trees can be made. Contact Jerry Wright (314-751-4115), who administers the champion tree program for the Department of Conservation.

from Rural Missouri

### Noteworthy Discoveries.

A new location for Geocarpon minimum has

recently been found in St. Clair county on a sandstone glade. The population includes 30 individuals.

In 1989 Tim Smith found *Orobanche multiflora*, a new species for the state on a dolomite glade in Taney County. Also in 1989, George Yatskievych found several plants of *Orobanche ludoviciana*, which was thought to have been extirpated, along the Meramec River. This is the only site known for this species in Missouri.

### Land Acquisition.

Among other properties acquired by MDC was a prairie in Ray County that contains a population of the *Tomanthera auriculata* (Auriculate False Foxglove). This species is listed as rare in Missouri and is a candidate for federal listing.

#### Natural Areas.

Five new state natural areas were designated since

1989, including two sinkhole pond marshes, a dolomite glade complex, a chert glade and a large landscape natural area in the White River Balds region.

Three more areas were inventoried under the Natural Features Inventory program, which was begun in 1980. In the past year over 200 records of outstanding natural communities, rare or endangered species, or other outstanding features were identified. The inventory of the state should be completed by 1995.

## Special Projects.

In 1990 a Biodiversity Task Force was established to address the issue of biological diversity in Missouri, and to develop a common understanding of this concept among many management agencies in Missouri.

## INTENSIVE WORKSHOP ON WETLAND PLANTS

Robert H. Mohlenbrock, Distinguished Professor of Botany at Southern Illinois University (Carbondale) will be teaching an intensive 4-day workshop on wetland plant identification in St. Louis on 8-11 October 1991. The courses are sponsored by the Wetland Training Institute, Inc. of Poolesville, Maryland and will consist of day-long sessions in the field and optional evenings in lab or lecture. Each student will receive published field guides, a coursebook, and other materials. Cost is \$750. If interested contact Dr. Mohlenbrock at 618-549-1884 or contact the Wetland Training Institute, Inc., P.O. Box 1022, Poolesville, MD 20837-0099, 301-972-8112.

## MINUTES OF THE 16 MARCH 1991 BOARD MEETING Rolla, Missouri

Call to Order. The meeting was called to order at approximately 7:45 pm with Karen Haller presiding. Those present included Linda Ellis, Sylvia Forbes, Pat Grace, Karen Haller, Pat & Jack Harris, Larry Morrison, Daniel Rice, Wally Weber, Rad Widmer, Louise Wienckowski, and Linden Trial (substituting for Paula Peters). Others present included Edith Bradbury, Jim Bogler, Al Haller, Sue Hollis, Penny Holtzmann, Linda Lathrop, and Linda Richards.

**Minutes.** The minutes were approved as printed and amended.

Treasurer's Report. Rad handed out and discussed the treasurer's report. He stated that the beginning

balance for the period was \$6693.87. Income was \$2500.00, and expenses were \$1438.09. The ending balance was \$7913.98. We had a total of 581 members for 1990.

Sylvia asked if we have to fill out an income tax form, even if we are non-profit. Al Haller stated that we do not have to fill out a tax form, but we must fill out a State Corporate Annual Registration.

#### Committee Reports.

Editorial. Sylvia reported for Wally (for Paul Redfearn) that the Index has just been sent out. The last issue of 1990 will be out within a month. Paul is greatly in need of articles. He had suggested the possibility of printing floras in

- Missouriensis in future issues. The board agreed that printing floras would be a good idea.
- Linda Ellis stated that the New England Wildflower Society recently printed a list of Botanical Clubs and Native Plant Societies of the United States. She suggested that this list be printed in *Missouriensis*.

Atlas. No report.

- Membership. Rad stated that membership renewals so far this year are 269, including two new life members (for a total of 4), and 10 trades with other organizations. This is current as of this meeting. The policy of trading newsletters with other societies was discussed.
- Pat Grace reported that she has been getting requests from the announcement in Merv Wallace's catalog. She helped Rad send out the dues renewals, and asked if anyone had suggestions for the membership person. Rad stated that members must join both local and state, or just the state, but cannot join just a local chapter.
- There was discussion on creating a new membership brochure which includes information on chapters. Linda Ellis said that Kansas City created an insert to the main brochure. Pat Harris said she had created a membership flyer by adding information on the St. Louis chapter to the existing membership brochure.
- A committee was appointed for redoing the membership brochure, which includes Pat Harris, Linda Ellis, Pat Grace, and Rad Widmer. They will create a new one and present it at the June meeting.
- Newsletter. No report. It was suggested that Pat Grace send a sample newsletter to all who inquire about joining MONPS. It was suggested that on the back of the newsletter each time there should be information on how to join MONPS. Rad suggested that people send in announcements of workshops to the newsletter.
- <u>Field trips</u>. Louise reported for Tim Nigh, saying that there will be a barbecue at Caney Mountain, and camping or motels will be available; the information will be in the next newsletter. Linda Ellis was thanked for leading the field trip earlier in the day.
- Sylvia Forbes spoke for Wally Weber in suggesting that MONPS hold a meeting at the REIS Biological Station sometime in the near future. Other possibilities suggested by the board were Crowder State Park, Swan Lake, and Mark Twain State Forest.
- Environment/Education. Pat stated that Jack gave

- testimony to the Missouri Dept. of Conservation on December 13th, on behalf of MONPS, for recommended management policies for Forest 44. They have not heard anything since then.
- Pat sent a letter to the Conservation Commission for their current policy on dams on rivers and streams and has not yet received an answer. She brought a draft of the letter Jack wrote urging them to adopt a policy opposing damming of free-flowing streams in Missouri.
- Pat looked into the proposed landfill near Washington State Park. The application has been denied because the company was in violation of state laws, but DNR did not determine if the site was suitable for a landfill and the company can appeal.
- Pat has not yet contacted the state highway department about using native seed mix instead of exotics for highway plantings.
- Pat stated that there is now a separate organization called the Committee for a Responsible Conservation Commission.
- Pat encouraged people to write letters supporting their environmental views. Jack Harris stated that a person can write to the Department of Conservation and ask for an Annual Report, if they are interested in what the 1/8% of the sales tax is being used for. 600 acres were bought last year by MDC for inclusion into natural areas systems. Last year \$1.5 million was spent directly on the Natural History Program.
- Larry Morrison suggested that the board take no official position on the upcoming appointment to the Conservation Commission, but suggested that we encourage the membership to make their views known.
- Jack suggested that the Board of Directors of the Missouri Native Plant Society adopt a policy to advise our members of the imminent appointment of a new member of the Conservation Commission, and that the board approve a proposed profile, and each member be encouraged to write the governor and ask that he appoint someone fitting the qualifications of this profile.
- Rewording by Larry to become a motion was:
  - "Except for the last few years, the Missouri Conservation Commission has been nonpolitical. We, the state Board of Directors of the Missouri Native Plant Society, believe that the Commission should be returned to that condition. We have included a profile of the kind of individual we believe should fill this important poisition. We encourage all of our members to write the Governor expressing their views on this issue."

- Rad moved, Pat Grace seconded, and this motion passed, with one dissent. A profile was passed around, discussed, and amended. Changes included combining #1 & 2 and omitting #4. This profile is printed at the end of these minutes.
- Pat stated that on May 6-9 there will be a Wilderness Management Workshop put on by the Mark Twain U.S.F.S.
- Old Business. Board Member. Karen stated that Mark Pelton has resigned as board member of MONPS, due to conflicts at work. Sylvia suggested that Bill Dierker be considered as a nominee for board member.
- Missouri Native Plant Week. No report. Planting along Interstate 44. Karen stated that Merv has contacted them and approved their seeding plan. We have donated \$200 to the seeding. Dick Coles sent a letter from Tyson Research Center thanking us. Rad suggested that we might want to collect some seed for them.
- Bylaws. Larry was thanked for typing the state bylaws, which were sent to the board and all chapter presidents in January.
- Forest Hills Golf Course. Louise moved and Pat Harris seconded that we give a plaque to the Club. The motion passed.
- Newsletter Editor. Karen stated that Kay Yatskievych is the new newsletter editor. Please send all articles and events to her.
- New Business. Karen read a letter from Sheldon Korklan to David Castaner regarding a biannual statewide conference on outdoor education with the Missouri Coalition for Education in the Outdoors, asking if we would like to be kept informed of the progress. It was generally agreed that we should participate.
- Linda Ellis asked about the policy on determining the cost of donated slides. The general consensus was that a person should establish the value of their own slides.
- Linda received a survey from the Association of Missouri Interpreters. She suggested that we fill out the survey. Sylvia will complete the survey and return.
- Karen stated that we need an awards committee for this year's awards. Suggestions for appointment to the committee were given and Karen will pass the information on to Bill Summers.
- Karen stated that Steve Timme suggested that the Kansas Native Plant Society have a joint meeting with MONPS, perhaps in September 1992. This was

- met with approval.
- Sylvia reported on a Conservation Leadership Workshop she recently attended, and asked that the MONPS board look into defining goals and objectives of MONPS, and into ways to provide leadership opportunities within MONPS. Karen suggested that time should be set aside at the December board meeting for this topic.
- Sylvia suggested that committees meet on a regular basis (such as in conjunction with the quarterly board meetings), as it is difficult for committees to meet otherwise when members are from all areas of the state. She also suggested that committees should be composed of more than one member.
- Announcements. Karen thanked Linda Richards for arranging the meeting place.
- Karen announced that Art Christ had died. He was a botanist, naturalist, and founding member of the Missouri Native Plant Society. There was discussion on a possible memorial for him, which was tabled until the next meeting.
- The board expressed appreciation to Merv Wallace (not present) for including an announcement about MONPS in his 1991 catalog.
- Rad stated that expansions currently are proposed for four of our state parks. People should write their Representatives and Senators expressing support.
- Chapter Reports. St. Louis: Larry said that everything is going fine.
- Columbia: Linden stated that the chapter recently cosponsored a propagation workshop with the adult education center, and that they have had good speakers at meetings.
- Kansas City: Dan Rice stated that they have been working on the butterfly garden at the Kansas City Zoo, will have an annual plant sale at the Powell Gardens in May, will have their April annual wildflower walk at Burr Oak Woods, and have had joint field trips with several organizations.
- Springfield: Mike Skinner was an excellent March speaker on Missouri Glades. They recently held a native foods potluck.

Jefferson City: no report.

Kirksville: no report.

Adjournment. Louise moved to adjourn. The meeting was adjourned at 10:55 p.m.

Environment/Education Profiles. Committee chairpersons Pat and Jack Harris reported that the Missouri Conservation Commission was due to have an appointment made to it soon by Governor Ashcroft. The Board then composed the following Candidate Profile of the kind of individual they would like to see appointed. They urge members to express their own views to Governor Ashcroft.

- 1. Republican or Independent (Missouri Constitution specifies that the commission must have a balance of Republican and Democrat members. Two of the four-member commission are Democrats and one of the two Republican positions is up for appointment.)
- 2. Female (no female has ever been appointed to the Commission).
- 3. An individual whose past activities represent interest and concern for the following: natural history, nonconsumptive outdoor sports (e.g., botany, entomology, hiking, camping, birdwatching), biodiversity protection, conservation or restoration of natural habitats (including wetlands, old-growth forests, and other natural areas). The person should also not be opposed to hunting, fishing, or other traditional

licensed outdoor activities.

4. An individual who recognizes that the passage in 1976 of the initiative petition allocating 1/8th cent of the sales tax to support the activities of Department of Conservation means that the Commission should represent the interests of all citizens of the state. Since recent studies indicate that the greater percentage of citizens of the state would like to participate in outdoor activities based on nonconsumptive appreciation of the state's natural resources, the policies, budget allocations, and actions of the Department of Conservation should give increased emphasis to this fact.

[Editor's note. The following board members were not present when the above was discussed and wish to go on record as not supporting it: Kay Yatskievych, George Yatskievych, Bill Summers, Joanna Turner, Doug Ladd, Tim Smith, Wally Weber. Although some of these members may agree with all or part of this Board action, most do not feel that MONPS should become involved with general issues not relating directly to native plants.]

## ENVIRONMENT AND EDUCATION COMMITTEE REPORT

by Pat & Jack Harris

As reported at the MONPS Board Meeting in Rolla, we requested and received a copy of the Conservation Commission's current policy regarding dams on Missouri rivers and streams. The Department of Conservation's letter advised that they reviewed two impoundment proposals last year, but neither project is now active.

The application for a proposed landfill near Washington State Park and the Big River has been denied by the Missouri Department of Natural

Resources to BiState Disposal Co., Inc. Under Missouri state law, they were seen as a habitual violator because of operating deficiencies at their Illinois landfill in St. Clair County. However, DNR did not determine whether the site was suitable for a landfill.

We are looking for one or more members from each Chapter who would like to participate on the Environment and Education Committee. If you are interested, please contact us (address on last page) so we can mutually agree on projects to work on. We need ideas and input from around the state.

# FIELD TRIP TO HICKORY CANYON

by Kay Yatskievych

The St. Louis Chapter field trip to Hickory Canyons Natural Area Saturday, May 18, led by Bill Summers and George Yatskievych, was not a field trip for the faint of heart or tender of foot, but it was great for those wishing to see a very special area of Missouri. Hickory Canyon is a complex of deep wooded sandstone canyons with numerous interesting side drainages. After exploring some of these, we came to one that ended in a huge semicircular series of sandstone ledges, most dripping with more Dennstaedtia punctilobula (Hay-scented Fern) than any of us had ever seen before. In the center of this was a clear and shining waterfall dropping well over

80 feet. At mid-level on one side of the semicirle was a particularly large overhang that sheltered a rock-strewn sandy area. We stopped to take advantage of the rocks for seating to eat our sack lunches with a grand view of the falls and canyon end. It was here that we found in flower *Dodecatheon frenchii* (French's Shooting-star), a candidate for federal listing. Its only know location in Missouri is at Hickory Canyon. Another rare plant seen along some of the streams in the drainages was *Viola macloskeyi* subsp. *pallens* (Smooth White Violet), though it was not in flower.

A total of 28 native and 9 non-native species was seen in bloom. Sixteen ferns and the fern ally *Lycopodium tristachyum* were also seen.

#### NATIVE SPECIES SEEN IN BLOOM

Arabis missouriensis (Missouri Rockcress)
Arisaema triphyllu (Jack-in-the-pulpit)
Asclepias quadrifolia (Whorled Milkweed)
Asclepias viridis (Green-flowered Milkweed)
Dodecatheon frenchii (French's Shooting-star)

Dioscorea quaternata (Wild Yam) Erigeron annuus (Daisy Fleabane) Erigeron strigosus (Daisy Fleabane) Geranium carolinianum (Carolina Cranesbill) Hedeoma hispidum (Mock Pennyroyal) Hedyotis longifolia (Long-leaved Bluets) Krigia biflora (Two-flowered Cynthia) Hydrangea arborescens (Wild Hydrangea) Maianthemum racemosum (False Solomonseal) Malaxis unifolia (Green Addersmouth) Monarda bradburiana (Bradbury Beebalm) Oenothera linifolia (Thread-leaved Sundrops) Oxalis violacea (Violet Woodsorrel) Phlox pilosa (Downy Phlox) Plantago virginica (Hoary Plantain) Potentilla simplex (Common Cinquefoil) Ranunculus recurvatus (Hooked Crowfoot) Rorippa palustris (Marsh Yellow Cress) Sisvrinchium angustifolium (Stout Blue-eved-grass) Thaspium trifoliatum (Meadow Parsnip) Triodanis perfoliata (Venus Lookingglass) Vaccinium arboreum (Farkleberry) Verbena simplex (Narrow-leaved Vervain)

## NATIVE PLANT SPECIES SOUGHT

Dr. Rob Myers and graduate student Kerry Clark of the UMC Agronomy Department would like assistance in locating and collecting seeds from several native plant species.

Dr. Myers is the agronomy faculty member charged with developing alternate crops for Missouri. The project is exploring the idea that there may be undomesticated plants native to the central United States that have attributes for potential food or industrial use. The species they will be look at first are ones believed

by anthropologists to have been cultivated by Native Americans in prehistoric times. Ms. Clark has obtained some seed but needs much more. She would like to have MONPS members help her locate sites where the species are growing or to collect seeds. If you are able to assist with this project please contact her at Waters Hall, UMC, Columbia, MO 65211, 314-443-3118.

### SPECIES NEEDED AND FLOWERING DATES:

Amphicarpaea bracteata (Hog Peanut), Aug-Sep Chenopodium berlandieri (Pitseed Goosefoot), Jun-Oct Chenopodium busianum, Jun-Oct Hordeum pusillum (Little Barley), Apr-Jun Iva annua (Marsh Elder), Jul-Oct Phalaris caroliniana (Maygrass), May-Jun Polygonum erectum (Erect Knotweed), May-Oct

## **NURSERY CATALOGS**

1991 Prairie Grasses and Wildflower Catalog Stock Seed Farms, R. R. 1, Box 112 Murdock, Nebraska 68407 402-867-3771, 1-800-759-1520 1991 Indigenous & Chinese Medicinal Plant Seeds Elixir Farm Botanicals Brixey, Missouri 65618

1991 Missouri Wildflowers Nursery 9814 Pleasant Hill Rd. Jefferson City, Missouri 65109 314-496-3492

Special thanks to the Bylaws Committee (Sue Hollis, Gary Shackelford, Louise Wienckowski) for revising and to Larry Morrison for typing the MONPS Bylaws.

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#### INFORMATION ON JOINING MISSOURI NATIVE PLANT SOCIETY: TELL A FRIEND! STATE DUES CHAPTER DUES MAIL STATE DUES TO: Rad Widmer, Treasurer, (Chapter dues additional) 1172B Schulte Hill Dr., Maryland Hts., MO 63043 Columbia . . . . . . . . . . . . \$6.00 Jefferson City . . . . . . \$5.00 Student . . . . . . . . . . . . \$5.00 Name Regular . . . . . . . . . . . \$9.00 Kansas City . . . . . . . . \$5.00 Street Contributing . . . . . . . \$20.00 St. Louis ..... \$3.00 City, State, Zip \_\_\_ Lifetime . . . . . . . . . \$200.00 Springfield . . . . . . . . . \$5.00 Please mail Chapter information.

Missouri Native Plant Society P.O. Box 6612 Jefferson City, MO 65102

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