

Final Report
For
Plant Identification Workshops
In Southern Illinois

Wildlife Preservation Fund
Grant Agreement #14-001W

January 27, 2015

Christopher David Benda, M.S.

Ecologist, Teacher, Naturalist, Photographer, Author

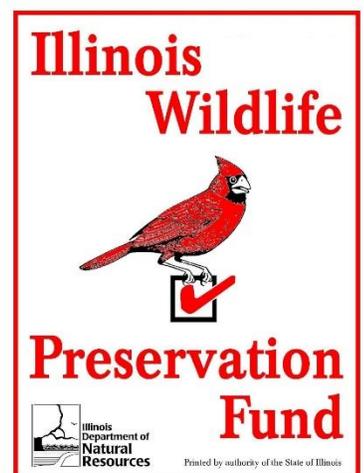
Visiting Plant Ecologist – Illinois Natural History Survey

Instructor – The Flora of Southern Illinois – Southern Illinois University

Instructor – The Morton Arboretum

President – Illinois Native Plant Society

Technical Expert Consultant – Illinois Endangered Species Protection Board



I received a grant from the Illinois Department of Natural Resources (IDNR) to conduct 10 plant identification workshops I decided to call “wildflower walks.” The wildflower walks were widely advertised in the local newspapers and on the IDNR website, as well as on my Illinois Botanizer Facebook page, www.facebook.com/illinoisbotanizer.

The goal of the project was simple. Get people out into state–owned lands and show them the beautiful and amazing nature found there. State parks and other IDNR properties have seen major budget cuts and reduced staff. Public support is critical to well-funded budgets. Also, many people know about the state parks but not the nature preserves. This project served to promote these areas with the general public, foster appreciation for the natural public lands in Illinois, and increase support for the mission of the IDNR.

Additionally, people are always asking about opportunities to learn from an expert in the field. Most people cannot tell a weed from a rare plant, even those who spend a lot of time outdoors, so a major goal of the project was to teach people the common and unusual plants of our area. Southern Illinois has a wealth of natural areas and the vegetation is remarkable. The more people see and appreciate plants, the more they will try to conserve them and teach others the same. The foundation of any conservation initiative is support from the public and the public needs to know why they should care. The project was a big success and participation was greater than I had expected.

The hikes were limited 20 people, but the IDNR permit maximum was 25 people so I could make exceptions. It was tricky to plan because I wanted people to be able to show up on the day of the hike, but in case I had to turn anyone away, I offered the option of people contacting me to reserve a spot. Only one hike had more than 20 people, the one at Fern Rocks Nature Preserve at Giant City State Park, and I did not ever have to turn anyone away. The total attendance for all 10 wildflower walks was 144 participants, averaging 14 participants per hike. Some of these were repeat participants so the total number of people I reached through the wildflower walks project was 92 people. Three people attended 6 of the 10 walks, two people attended 5 of the 10 walks, and two people attended 4 of the 10 walks. Most people attended 1-3 of the walks.

The following is a list of sites for the wildflower walks with descriptions and photos. A participant list is included as well. An invoice is provided detailing the time spent on each project. I covered the vehicle and mileage costs for travelling to each wildflower walk, as well as the cost of printing the handouts. Handouts were provided to each participant at each walk. A copy of each handout is included at the end of this report. Two handbooks were made available to participants, a guide to spring wildflower hikes in southern Illinois and a guide to invasive species in southern Illinois. Also enclosed are several newspaper clippings advertising the wildflower walks as well as a flyer I created and distributed widely. The clippings are from *The Southern*, *The Little Paper*, and *The Review* newspapers.

Photo albums from each walk can found on my facebook page at www.facebook.com/illinoisbotanizer and links to each album are included at the end of the description for each wildflower walk.

Wildflower Walk #1

Site Name: Round Bluff Nature Preserve

State Property: Ferne Clyffe State Park

County: Johnson

Date: April 13, 2014

Number of participants: 7 total participants

The walk was attended by 7 participants. Spring is a challenging time for scheduling outside events because the weather can be so variable. It was a little bit cool and it was a late spring for flowers but we enjoyed the scenery. In my experience there is always plenty to observe and talk about, any time of the year.

Round Bluff is a terrific place for guided hikes. I take my summer flora class here on our last day because of the diversity of plants that can be observed. The trail is a perfect length too and only moderately challenging. However, trampling is increasing along the cliffs and paths. Foot traffic should be restricted to the trail. There are also many interesting plant species that occur along the lake margin, but this area is often mowed during my guided hikes. There are many good reasons to leave a small strip of vegetation along the edge of the lake, but I understand not everyone sees it this way.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #2

Site Name: Ozark Hills Nature Preserve
State Property: Trail of Tears State Forest
County: Union
Date: May 11, 2014

Number of participants: 17 total participants, 1 repeat participant

The walk was attended by 17 participants. Ozark Hills Nature Preserve is a gem of a site that is hardly ever visited. The vegetation along the trail is outstanding in the spring, with many rare and uncommon species. We even saw the elusive puttyroot orchid in bloom as well as the uncommon red buckeye trees and a beautiful male broadhead skink. Kevin Boucher from SIU radio attended the hike and made a short clip about wildflower viewing in southern Illinois and the Trail of Tears State Forest that was played on the WSIU radio station in June.

This is a very nice place for guided hikes. The trail is short and has one steep climb. The vegetation along the trail to the right of the shelter is loaded with interesting species to talk about. While the vegetation benefits from the lack of visitation, the trail needs some maintenance. The wooden sections are very slippery and tilted. But overall, infrastructure should be minimal here to protect the resources.

Below is a photo of the group before the hike. More photos can be viewed at this link.
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Wildflower Walk #3

Site Name: Fern Rocks Nature Preserve

State Property: Giant City State Park

County: Jackson

Date: May 24, 2014

Number of participants: 21 total participants, 6 repeat participants

The walk was attended by 21 participants. It was widely advertised and held during a beautiful time of year so it was the most attended walk of the ten wildflower walks. The open space near Shelter One was a great place to begin for such a large group. We walked around the edge of the lawn and looked at trees and common herbaceous plants. We spotted a lovely rough green snake in the trees and crossed the road into the nature preserve. Not everyone made it on the entire loop, but everyone had a terrific time.

This site is one of the best in southern Illinois for guided nature hikes. The trail is fairly short and easy, and there is interesting vegetation all along the way. The trail is in good condition and the park is close to Carbondale, which attracts a lots of visitors.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #4

Site Name: Horseshoe Lake State Fish and Wildlife Area

State Property: Horseshoe Lake Nature Preserve

County: Alexander

Date: May 31, 2014

Number of participants: 13 total participants, 4 repeat participants

The walk was attended by 13 participants. This was a challenging walk because there are no trails to take people on at Horseshoe Lake. I figured the nature preserve by the Wicker house would have the most interesting plants so we walked the gravel road to the edge of the woods. There was some poison ivy to contend with, but we wandered around in the forest, looking at unusual tree species like water elm, swamp red maple, and Schumard's oak.

There is another section of the state-owned nature preserve at this site, but it is difficult to access. It would be terrific if there was better access to the island and if there was a trail (or boardwalk) taking visitors through some of the swamp within the nature preserve. The Wicker house is a terrific resource as well.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #5

Site Name: Mermet Lake Flatwoods Land and Water Reserve

State Property: Mermet Lake State Fish and Wildlife Area

County: Massac

Date: June 15, 2014

Number of participants: 19 participants, 7 repeat participants

The walk was attended by 19 participants and was my favorite one of the project. The Flatwoods Trail is at the north end of the park and it contains many interesting and seemingly “out-of-place” plants like prairie milkweed and Ohio spiderwort. Many woodland and wetland plants were observed in flower and the group identified seven species of oaks in the woodland.

I was very surprised to see the extensive trails at this site from the archery competitions held in this area. I learned that these competitions are a huge draw for visitors and participants, but I would recommend that these activities be moved to a lower quality area within Mermet Lake, as the vegetation composition is high in this area and the structure is sensitive to disturbance. The flatwoods natural community is rare in the coastal plain and this area is within a Land and Water Reserve.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #6

Site Name: Dixon Springs State Park

State Property: Dixon Springs State Park

County: Pope

Date: June 22, 2014

Number of participants: 12 total participants, 5 repeat participants

The walk was attended by 12 participants. There are trails at Dixon Springs State Park, but the cliffs and stream along the entrance road are fine areas for looking at plants. However extensive mowing limits many of the plants that can be observed. The group still managed to spend 3 hours looking at nature and talking about our experiences.

I had only been to this park once before so it was difficult to know where to go. I have heard about a nice canyon here, but in general it is not clear to the public where to go to explore nature. It mostly seems like a place to swim and stay in cabins. But people like to climb on the cliffs and the waterfall is neat.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #7

Site Name: Lake Murphysboro Hill Prairies

State Property: Lake Murphysboro State Park

County: Jackson

Date: June 29, 2014

Number of participants: 12 total participants, 2 repeat participants

The walk was attended by 12 participants. Lake Murphysboro State Park was a very challenging walk in the sense of finding good places to look at plants. This park is basically a man-made lake popular for fishing. The forest surrounding the area has little for trails and they were very overgrown. We poked around a little in one of the parking areas around the lake, looking at trees and the shrubs and plants close to the edge of the mowed areas. Then I took the group to one of the hill prairies near the loop road. We carefully wandered around the opening and found many interesting plants and wildflowers to talk about. We even found some goldenseal in fruit!

It is probably best to keep the public out of the hill prairie areas, but there is a lot of forest at the park that could be utilized for nature trails. The one trail I found was very overgrown and loaded with poison ivy. I know orchids and such have been found here before and I think there is potential on the east side of the park across the road from the lake for a nice loop through the forest.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #8

Site Name: Cave-In-Rock State Park

State Property: Cave-In-Rock State Park

County: Hardin

Date: July 27, 2014

Number of participants: 15 total participants, 4 repeat participants

The walk was attended by 15 participants. This walk was the most challenging in that there aren't any good places to look at plants at this park. We went in the cave and that was cool, but the rest of the park was not very interesting. We did look at trees, but it was incredibly hot and humid on this day. However, we did observe the rare wild orpine high up on the rocks, false indigo bush along the Ohio River, and purple cliffbrake fern in the cave opening on top.

I investigated the trails here, but they were short and full of invasive plants and low quality vegetation. Most of the park is mowed so we were restricted to looking at planted trees. If I had to do this over again, I think I would take people to the flatwoods at Fort Massac instead.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #9

Site Name: Heron Pond Nature Preserve

State Property: Cache River State Natural Area

County: Johnson

Date: August 24, 2014

Number of participants: 14 total participants, 7 repeat participants

The walk was attended by 14 participants. Heron Pond is one of the best places to look at plants and wildlife and I tried to coincide the date of this walk with the blooming spider lilies on the trail near the boardwalk. However, those plants were consumed by caterpillars this year and so they did not produce flowers. The spider lily is the host for this native butterfly. We also observed a nice cottonmouth crossing the trail just after the bridge. Of course I took the group to view the champion cherrybark oak, and even John and Martha Schwegman joined us for the hike.

This is also one of the best places for guided nature hikes in southern Illinois. Being able to take people out on the boardwalk is exquisite. They absolutely love it. There is a lot of interpretation potential at this site and the signs along the trail are nice. This is truly a gem of a nature preserve.

Below is a photo of the group before the hike. More photos can be viewed at this link.

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Wildflower Walk #10

Site Name: Piney Creek Ravine Nature Preserve

State Property: Piney Creek Ravine Nature Preserve

County: Randolph

Date: October 12, 2014

Number of participants: 14 total participants, 11 repeat participants

The walk was attended by 14 participants. The word had gotten out about how cool the wildflower walks were and I had close to 30 people contact me to inquire about the final walk. However, many reservations were cancelled due to the rain. But there was still a great turnout and we had a wonderful hike in this beautiful area. We looked at the rock art, the stand of state-threatened shortleaf pines, and the colorful changing leaves in the canyon.

This is a very nice nature preserve with a great trail system. The site could benefit from having a trail map on the entrance sign, but the trails are in good shape and easy to follow. At one point we followed a dead end trail, but someone in the group pointed out the green trail marker I walked by that faintly said "dead end" on it. The damage around the rock art area is disappointing, but it has been this way for decades.

Below is a photo of the group before the hike. More photos can be viewed at this link.

<https://www.facebook.com/media/set/?set=a.1553497311532109.1073741846.1443386332543208&type=3>



Naturalist to offer wildflower hikes

THE SOUTHERN

Illinois naturalist Chris Benda will offer eight wildflower walks in Southern Illinois State Parks and Natural Areas through October.

On the hikes, participants will learn the basics of plant identification, and will be provided handouts about plant identification terminology, field guides, web resources and invasive species.

All hikes will start at 10 a.m. and will last up to four hours. Hikes will be limited to the first 20 participants. Reservations are not required, but are encouraged. To reserve a spot, contact Chris Benda at botanizer@gmail.com.

Hikes are scheduled as follows:

Saturday, May 24: Fern Rocks Nature Preserve in Giant City State Park, Makanda. Meet at nature preserve parking lot and trailhead.

May 31: Horseshoe Lake State Conservation Area, Miller City. Meet on the west side of Wicker House.

June 15: Mermet Lake State Fish and Wildlife Area, Belknap. Meet in the visitor center parking lot.

June 22: Dixon Springs State Park, Golconda. Meet near the main entrance.

June 29: Lake Murphysboro State Park, Murphysboro. Meet in the visitor center parking lot.

July 27: Cave-In-Rock State Park, Cave-In-Rock. Meet in the visitor center parking lot.

Sunday, Aug. 24: Heron Pond Nature Preserve in Cache River SNA in Belknap. Meet at nature preserve parking lot and trailhead.

Sunday, Oct. 12: Piney Creek Nature Preserve in Chester. Meet at the nature preserve parking lot and trailhead.

For more information, contact Benda at 217-417-4145.

MAY 26, - JUNE 1, 2014



Area Happenings...

The Great Train Race

Games, prizes, puppets, refreshments. VBS Family fun for all ages. Faith Baptist Church 14883 Hwy 34 in Benton. June 2-6, 6pm-8pm. More info call 618-439-9306.

Illinois State Park Hikes

Illinois naturalist Chris Benda offers ten wildflower walks at Illinois State Parks and Natural Areas across southern Illinois from April to October. The hikes are free and open to the general public. Hikes will start at 10:00am at the location indicated on the schedule and will last up to 4 hours. No previous experience is necessary. Reservations are not required, but are encouraged. The hikes will be limited to the first 20 participants. For more information, contact Chris Benda at botanizer@gmail.com.

Crab Orchard National Wildlife Refuge

Rte. 148, Marion 618-997-3344

"Let's Go Outside Backpacks", can be checked out at the visitor center. These adventure packs include tools for exploring nature like binoculars, field guides, bug jars and more.

any of the library's programs, call 993-5935.

PINOCHLE CARD GAMES

Every Wednesday from 1-3:30pm at the Senior Citizens Ctr. in West Frankfort.

JAM SESSIONS

Free Jam Sessions on Wednesday nights from 6:30-9pm at the American Legion Post #147, 11720 Longstreet Road, Marion. For more information call Larry Little at 922-0868.

ANNUAL FOOD SERVICE PROGRAM

The Boyton Street Community Center will begin its annual Summer Food Service Program Monday June 9, 2014 at 12:30 p.m. Meals will be served until 2:00 p.m. Monday through Friday. Free meals will be served to

children ages 1 to 18 years old or over 19 with disabilities. For more information, please call 997-1113. The center is located at 501 West Boyton St. in Marion.

The United States Department of Agriculture is an equal opportunity provider and employer.

WILDFLOWER HIKES

Illinois naturalist Chris Benda offers ten wildflower walks at Illinois State Parks and Natural Areas across southern Illinois from April to October. The hikes are free and open to the general public. Participants will learn about the basics of plant identification, and will be provided handouts about plant identification terminology, field guides and web resources, and invasive species. All of the hikes

will start at 10:00am and will last up to 4 hours. No previous experience is necessary. Reservations are not required, but are encouraged. The hikes will be limited to the first 20 participants. To reserve your spot for any of the hikes, contact Chris Benda at botanizer@gmail.com.

Chris teaches the Flora of Southern Illinois at Southern Illinois University and is President of the Southern Chapter of the Illinois Native Plant Society. These wildflower walks are made possible by a grant from the Illinois Wildlife Preservation Fund.

Participants will learn about the basics of plant identification, and will be provided handouts about plant identification terminology, field guides and web resources, and invasive species.



Southern Illinois Wildflower Walks

Led by Naturalist Chris Benda

2014 Wildflower Walk Schedule

- Hike #1 – April 13th Round Bluff Nature Preserve, Ferne Clyffe State Park, Goreville, IL
Meet at nature preserve parking lot and trailhead
- Hike #2 – May 11th Ozark Hills Nature Preserve, Trail of Tears State Forest, Jonesboro, IL
Meet at nature preserve parking lot and trailhead
- Hike #3 – May 24th Fern Rocks Nature Preserve, Giant City State Park, Makanda, IL
Meet at nature preserve parking lot and trailhead
- Hike #4 – May 31st Horseshoe Lake State Conservation Area, Miller City, IL
Meet at the Wicker House on the west side
- Hike #5 – June 15th Mermet Lake State Fish and Wildlife Area, Belknap, IL
Meet at the visitor center parking lot
- Hike #6 – June 22nd Dixon Springs State Park, Golconda, IL
Meet near the main entrance
- Hike #7 – June 29th Lake Murphysboro State Park, Murphysboro, IL
Meet at the visitor center parking lot
- Hike #8 – July 27th Cave-In-Rock State Park, Cave-In-Rock, IL
Meet at the visitor center parking lot
- Hike #9 – August 24th Heron Pond Nature Preserve, Cache River SNA, Belknap, IL
Meet at nature preserve parking lot and trailhead
- Hike #10 – October 12th Piney Creek Nature Preserve, Chester, IL
Meet at nature preserve parking lot and trailhead

Participants will learn about the basics of plant identification, and will be provided handouts about plant identification terminology, field guides and web resources, and invasive species.

All of the hikes will start at 10:00am at the location indicated above and will last up to 4 hours. No previous experience is necessary. Reservations are not required, but are encouraged. The hikes will be limited to the first 20 participants. To reserve your spot for any of the hikes, contact Chris Benda at botanizer@gmail.com. Follow Chris on facebook at www.facebook.com/illinoisbotanizer.

These wildflower walks are made possible by a grant from the Illinois Wildlife Preservation Fund.



Below is a list of the number of people who participated and where they travelled from.

Name	Place of Residence	Number of walks attended
Abel Kinser	Makanda, IL	2
Amanda Pankau	Alto Pass, IL	1
Anne Parmley	Metropolis, IL	1
Ashley Hanson	Carbondale, IL	1
Barb McKasson	Carbondale, IL	1
Betty M. Lane	Wickliffe, KY	1
Bob McCleese	Monticello, IL	1
Brenda Littleton	Paducah, KY	2
Brent Synder	West Frankfort, IL	1
Caitlin McMahon	Carbondale, IL	1
Cathy Wood Jennings	Eddyville, IL	6
Chad Backsen	Golconda, IL	1
Child	West Frankfort, IL	1
Child	West Frankfort, IL	1
Christa Shen	Carbondale, IL	1
Cindy Perone	Murphysboro, IL	1
Clara McClure	Carbondale, IL	1
Connie Shanahan	Carbondale, IL	1
Dale Vitt	Carbondale, IL	1
David Bork	Carbondale, IL	4
Dianne Quiroz	Carbondale, IL	1
Domenico D' Alessandro	Algonquin, IL	1
Don Kniepkamp	Belleville, IL	1
Donna Martin	Marion, IL	2
Gail Kloeping	Metropolis, IL	5
Gerlinda	unknown	1
Guest	Carbondale, IL	1
Harold Bardo	Carbondale, IL	1
Jan Sundberg	Carbondale, IL	4
Janet McClurken	Pinckneyville, IL	1
Jared Wynne	Carbondale, IL	1
Jason Willand	Carbondale, IL	1
Jean Sellar	Cobden, IL	5
Jerry Holstetler	Murphysboro, IL	1
Jill Adams	Makanda, IL	1
Jim Perkins	Lebanon, IL	1
Jo Dodd	Marion, IL	1
Jo Kilmer	Buncombe, IL	1
Jodi Vandermyde	Athens, IL	2
Joe Littleton	Paducah, KY	2
John Palis	Jonesboro, IL	1
John Schwegman	Metropolis, IL	1
Jon McClurken,	Pinckneyville, IL	3
Kalman Csigi	Carbondale, IL	1
Karen Baumann	Carbondale, IL	2
Kathryn Jenkel	Carbondale, IL	1

Name	Place of Residence	Number of walks attended
Keith Kilmer	Buncombe, IL	1
Kelsey Martinez	Carbondale, IL	1
Kevin Boucher	Carbondale, IL	2
Kimberly Culver	Calvert City, KY	1
Kirsten Trimble	Carbondale, IL	6
Lana Dockery	Paducah, KY	1
Lavonne Morris	Coulterville, IL	3
Lee Hartman	Carbondale, IL	1
Linda Bundeen	Marion, IL	1
Linda Martin	Elkville, IL	1
Lindsay Shupert	Carbondale, IL	1
Loy Addington	Makanda, IL	1
Marlene Steger	Carbondale, IL	2
Marsha	Alto Pass, IL	1
Martha Schwegman	Metropolis, IL	1
Maurie McCann	Murphysboro, IL	1
Michael Adorjan	Murphysboro, IL	1
Mike	unknown	1
Mike Martin	Marion, IL	2
Nathan Hoover	Carbondale, IL	1
Nick Seaton	Carbondale, IL	2
Olga Snyder	West Frankfort, IL	1
Paul Grammer	Carbondale, IL	1
Paula Wilkerson	Carterville, IL	1
Peter Hoch	Carbondale, IL	1
Rhonda Rothrock	Pomona, IL	2
Rick Steger	Carbondale, IL	2
Robert Rothrock	Pomona, IL	2
Ron Kiser	Murphysboro, IL	1
Rosy	Monticello, IL	1
Rowan Pankau	Alto Pass, IL	1
Samantha Ritter	Carbondale, IL	1
Sandi Vitt	Carbondale, IL	1
Sandy Perkins	Lebanon, IL	1
Sarah Heyer	Carbondale, IL	2
Sawyer Pankau	Alto Pass, IL	1
Stacia Novy	O'Fallon, IL	1
Stan Morris	Coulterville, IL	3
Susan Adorjan	Murphysboro, IL	1
Susan Barry	Carbondale, IL	6
Susanne Masi	Algonquin, IL	1
Suzanne McCann	Murphysboro, IL	1
Tina McElhattan	Waterloo, IL	1
Tyler Refstand	Golconda, IL	2
Vicki Lang	Anna, IL	2
Vincent Colantonio	Carbondale, IL	1

Christopher David Benda

142 S. Brockway St.
Palatine, IL 60067
Phone 217-417-4145

INVOICE

INVOICE #[100]
DATE: 1/27/2015

TO: ILLINOIS DEPARTMENT OF NATURAL RESOURCES
Jody Shimp
11371 Highway 37
Benton, IL 62812
618-521-2804

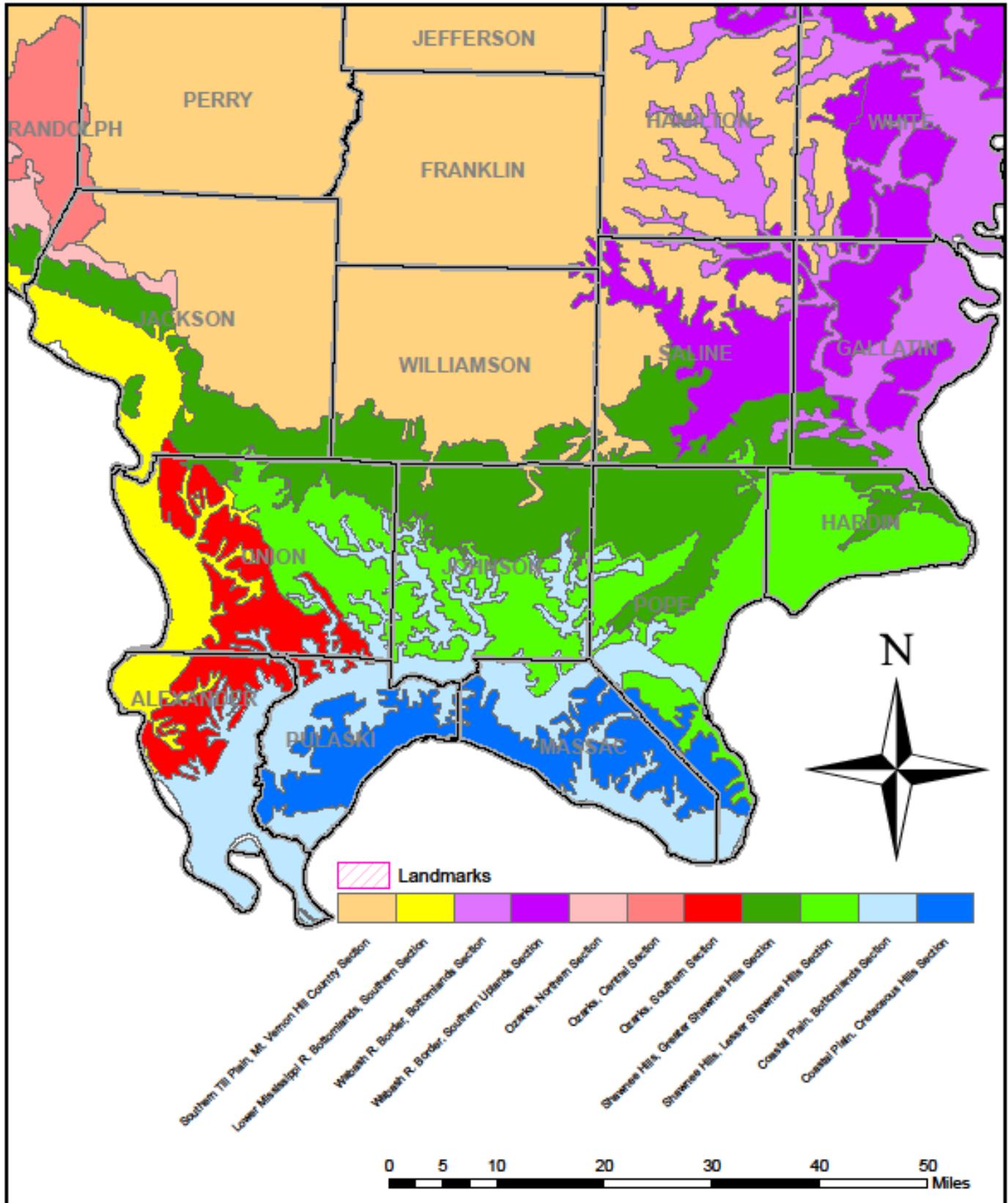
FOR:
WPF Grant Agreement #14-001W

DESCRIPTION	HOURS	RATE	AMOUNT
Wildflower Walk #1	8	\$25.00	\$200.00
Wildflower Walk #2	8	\$25.00	\$200.00
Wildflower Walk #3	8	\$25.00	\$200.00
Wildflower Walk #4	8	\$25.00	\$200.00
Wildflower Walk #5	8	\$25.00	\$200.00
Wildflower Walk #6	8	\$25.00	\$200.00
Wildflower Walk #7	8	\$25.00	\$200.00
Wildflower Walk #8	8	\$25.00	\$200.00
Wildflower Walk #9	8	\$25.00	\$200.00
Wildflower Walk #10	8	\$25.00	\$200.00
		TOTAL	\$2000.00

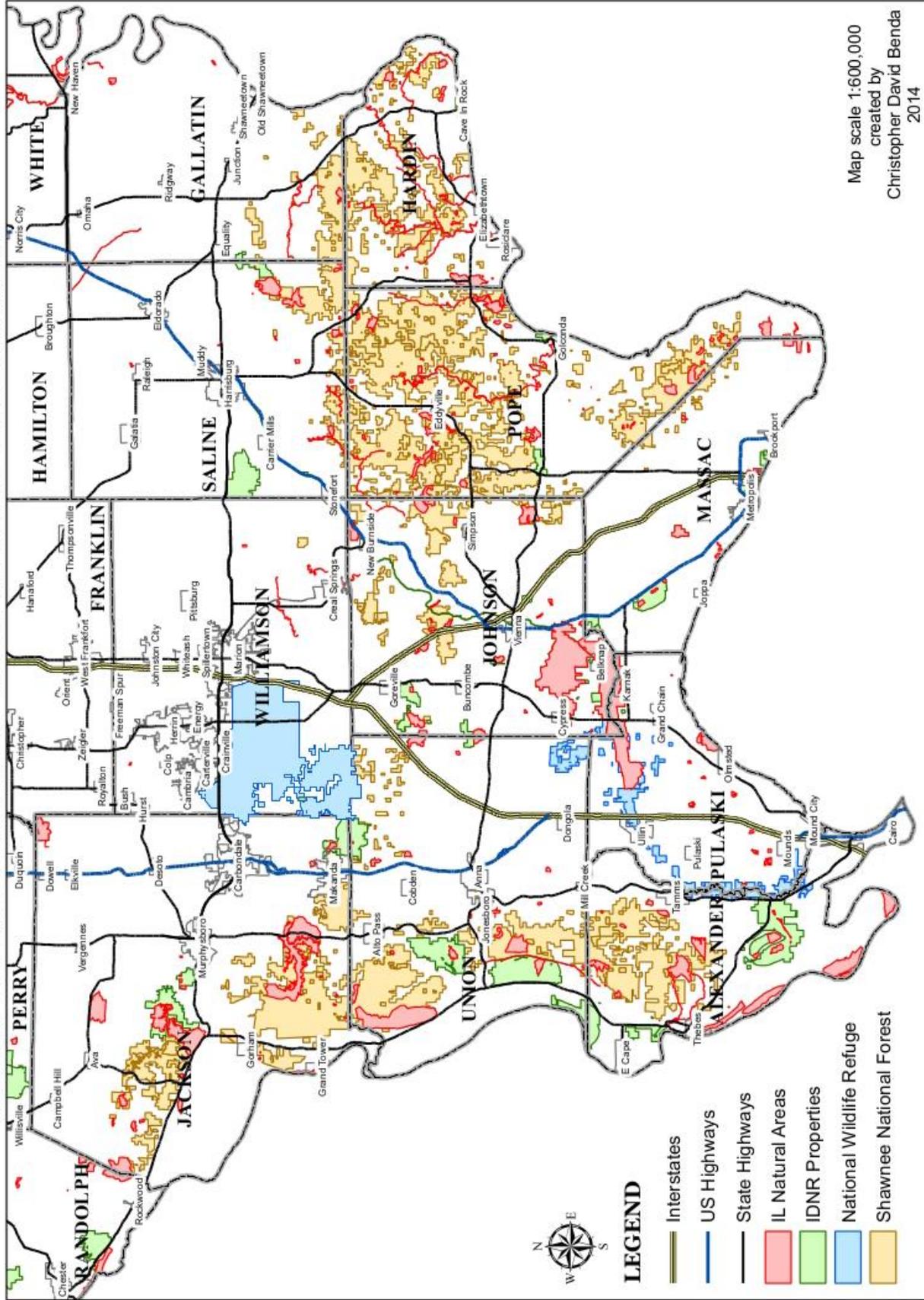
Make all checks payable to: Chris Benda

THANK YOU FOR YOUR BUSINESS!

Southern Illinois Natural Divisions



Illinois Natural Areas and Public Lands in Southern Illinois



PUBLIC NATURAL AREAS IN SOUTHERN ILLINOIS

SHAWNEE NATIONAL FOREST - 80

Atwood Ridge RNA/Ecological Area
Ava Zoological Area
Bald Knob Geological Area
Barker Bluff RNA/Ecological Area
Bear Creek Relict Site Botanical Area
Bell Smith Springs Ecological Area
Big Brushy Ridge Ecological Area
Big Creek Zoological Area/Candidate Wild & Scenic River
Brown's Zoological Area
Bulge Hole Ecological Area
Burke Branch RNA/Ecological Area
Cane Creek Botanical Area
Caney Branch Barrens Ecological Area
Cave Hill RNA/Ecological Area
Chimaphila Site Botanical Area
Clear Creek Swamp Botanical Area
Clear Springs Geological Area
Copperous Branch Limestone Barrens Ecological Area
Cretaceous Hills Ecological Area
Crow Knob Ecological Area
Dean Cemetery East Barrens Ecological Area
Dean Cemetery West Barrens Ecological Area
Dennison Hollow RNA/Ecological Area
Dog Barrens Ecological Area
Double Branch Hole Ecological Area
Dutch Creek Chert Woodland Ecological Area
East Fork Oxalis illinoensis Botanical Area
Fink Sandstone Barrens Ecological Area
Fountain Bluff Geological Area
Garden of the Gods Ecological Area
Gibbons Creek Ecological Area
Grantsburg Swamp Ecological Area (Bell Pond)
Greentree Reservoir Botanical Area (Oakwood Bottoms)
Gyp Williams Hollow Ecological Area
Hayes Creek/Fox Den Creek Ecological Area
Hutchison Zoological Area
Jackson Hole Ecological Area
Jackson Hollow Ecological Area
Kaskaskia Woods Ecological Area
Keeling Hill North Ecological Area
Keeling Hill South Ecological Area
Kickasola Cemetery Ecological Area
LaRue-Pine Hills/Otter Pond RNA/Ecological Area
Leisure City Barrens Ecological Area
Little Grand Canyon/Horseshoe Bluff Ecological Area
Lusk Creek Canyon Ecological Area
Lusk Creek North Ecological Area
Lusk Creek Zoological Area/Candidate Wild & Scenic River
Martha's Woods Ecological Area
Massac Tower Springs Ecological Area
Millstone Bluff Ecological Area/Historic Site
Odum Tract Ecological Area
Opossum Trot Trail Botanical Area
Ozark Hill Prairie RNA/Ecological Area
Panther Hollow RNA/Ecological Area
Pine Hills Annex Ecological Area

Pine Hollow Ecological Area
Pleasant Valley Barrens Ecological Area
Poco Cemetery East Ecological Area
Poco Cemetery North Ecological Area
Pounds Hollow Ecological Area
Provo Cemetery Barrens Ecological Area
Reddick Hollow Botanical Area
Reid's Chapel Ecological Area
Rich's Zoological Area
Robnett Barrens Ecological Area
Russell Cemetery Barrens Ecological Area
Saltpeter Relict Botanical Area
Sand Ecological Area
Schwegman Ecological Area
Silvey Pond Botanical Area
Simpson Township Barrens Ecological Area
Snow Springs Ecological Area
Split Rock Hollow Ecological Area
Stoneface RNA/Ecological Area
Sulphur Springs Botanical Area
Teal Pond Botanical Area
Toothless Zoological Area
Whoopie Cat Mountain RNA/Ecological Area
Wolf Creek Botanical Area

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Chestnut Hills Nature Preserve
Gibbons Creek Barrens
Lovets Pond Nature Preserve
Ozark Hills Nature Preserve
Brown Barrens Nature Preserve
McClure Shale Glade Nature Preserve
Deer Pond Nature Preserve
Cave Creek Barrens Nature Preserve
Mermet Swamp and Flatwoods Nature Preserves
Draper's Bluff Nature Preserve
Cedar Bluff Nature Preserve
Cypress Hill Nature Preserve
Lower Cache River Swamp Nature Preserve
Cypress Pond Nature Preserve
Sielbeck Forest Tract Nature Preserve
Guthrie Cave Nature Preserve
Lake Murphysboro Hill Prairie Nature Preserve s
SW Kinkaid Route 3
Big Grand Pierre Site Nature Preserve
Collier Limestone Glade Nature Preserve
Horseshoe Lake and Forest Nature Preserve
Cretaceous Hills Nature Preserve
Little Black Slough - Heron Pond Nature Preserve
Fern Rocks Nature Preserve
Round Bluff Nature Preserve
Piney Creek Ravine Nature Preserve
Fort Massac Nature Preserve
Berryville Shale Glade Nature Preserve
Lusk Creek Canyon Nature Preserve
Campbell Lake Nature Preserve

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- Illinois Native Plant Society, www.facebook.com/illinoisplants
- Rapid Color Field Guide: Spring Flora of Southern Illinois and Guide to Spring Wildflower Hikes in Southern Illinois
<http://www.ill-inps.org/index.php/southern-chapter/publications>
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- Illinois Wildflowers <http://www.illinoiswildflowers.info/>
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<http://www.dnr.illinois.gov/ESPB/Documents/ETChecklist2011.pdf>
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- New England botany Key <http://gobotany.newenglandwild.org>