

# NONGAME WILDLIFE CONSERVATION FUND

Small Project Proposal FY94 (July 1993 - June 1994)

1. Project Title: A Mycological Study of The Shoal Creek Nature Conservation Area

2. Submitted by: Name (Dr., Mr. Mrs., Ms.) Mr. Andrew N. Miller

Affiliation \_\_\_\_\_

Address 412 N. McGown St. (P.O. Box 64)

City, State, Zip Raymond, Il. 62560

3. Contact Person: (Dr., Mr. Mrs., Ms.) Mr. Andrew N. Miller 4. Phone Number: (217 ) 229-3067

5. I request \$ 400 in funding from the Nongame Wildlife Conservation Fund.

## 6. PROPOSAL CATEGORY (*For Staff Use Only*)

Management

Site Inventories

Education

### Project Justification:

The Shoal Creek Nature Conservation Area encompasses 216 acres on the southern tillplain. It is composed of central barrens, prairies, oak-hickory forest, savannah, and a hill side seep. There is also evidence of old-field succession.

Although a vascular plant inventory totalling 580 taxa has been completed for the area, there has been no attempt to record the diversity and abundance of fungi which occur in the preserve. This study is intended to document the abundance, distribution, and fruiting patterns of the fungi found in the Shoal Creek Nature Conservation Area. Once the frequency and dispensation of fungi has been ascertained, it will be possible to study the effects of fire (used as a maintenance tool in the preserve) and other disturbances on these populations. This

8. Project Objectives: study is important in that it would increase the knowledge of the effects of natural disturbances on fungal communities.

1. Prepare a checklist of fungi which occur in the Shoal Creek Nature Conservation Area.
2. Record distributional data for fungi collected. (Prepared using maps of the preserve.)
3. Record ecological data for fungi including substrate, soil type, exposure, and climatic data.
4. Submit a final report documenting species abundance and distribution along with the ecological data.

Detailed budget for A Mycological Study of the SCNCA

Supplies for the mushroom dryer

1.	3/8" 4x8 A/C Exterior grade fir plywood	\$ 18.50
2.	Brass hinge- 72"	9.99
3.	4D Finishing nails	.49
4.	6"x1 1/2" Wood screws	1.89
5.	6"x3/4" Wood screws	1.89
6.	Indoor/Outdoor thermometer	21.95
7.	120 V A/C 4" Electric fan	20.32
8.	2) 1"x6"- 6' #3 Common pine @ \$1.79 each	3.58
9.	2"x6"- 8' Pine	4.22
10.	30' of 1/2" Quarter-round molding	5.70
	subtotal	\$88.53
	tax	5.53
	total	\$94.06

Supplies from Bioquip

1.	Glass vials with screw caps (per dozen)	\$ 3.45
2.	Notebooks and pens	12.60
3.	Specimen data labels	3.40
4.	<u>How to Know the Mosses and Liverworts</u> by H.S. Conard	21.50
5.	<u>How to Know the Lichens</u> by M.E. Hale	21.50
6.	<u>How to Know the Non-gilled Mushrooms</u> by A.H. Smith	21.50
	subtotal	\$83.95
	shipping and handling	13.43
	total	\$97.38

Misc.

1.	Mushroom collecting basket (trapper's basket)	\$ 36.39
2.	Mushroom basket straps	9.67
	total with tax included	\$46.06

Travel Expenses

1.	Mileage only at 25¢/mile at 26 miles (round trip)=\$6.50/trip at 25 trips	\$162.50
	Grand Total	\$400.00

- 1 Wisconsin Driftless Division
- 2 Rock River Hill Country Division
  - a Freeport Section
  - b Oregon Section
- 3 Northeastern Morainal Division
  - a Morainal Section
  - b Lake Michigan Dunes Section
  - c Chicago Lake Plain Section
  - d Winnebago Drift Section
- 4 Grand Prairie Division
  - a Grand Prairie Section
  - b Springfield Section
  - c Western Section
  - d Green River Lowland Section
  - e Kankakee Sand Area Section
- 5 Upper Mississippi River and Illinois River Bottomlands Division
  - a Illinois River Section
  - b Mississippi River Section
- 6 Illinois River and Mississippi River Sand Areas Division
  - a Illinois River Section
  - b Mississippi River Section
- 7 Western Forest-Prairie Division
  - a Galesburg Section
  - b Carlinville Section
- 8 Middle Mississippi Border Division
  - a Glaciated Section
  - b Driftless Section
- 9 Southern Till Plain Division
  - a Effingham Plain Section
  - b Mt Vernon Hill Country Section
- 10 Wabash Border Division
  - a Bottomlands Section
  - b Southern Uplands Section
  - c Vermilion River Section
- 11 Ozark Division
  - a Northern Section
  - b Central Section
  - c Southern Section
- 12 Lower Mississippi River Bottomlands Division
  - a Northern Section
  - b Southern Section
- 13 Shawnee Hills Division
  - a Greater Shawnee Hills Section
  - b Lesser Shawnee Hills Section
- 14 Coastal Plain Division
  - a Cretaceous Hills Section
  - b Bottomlands Section

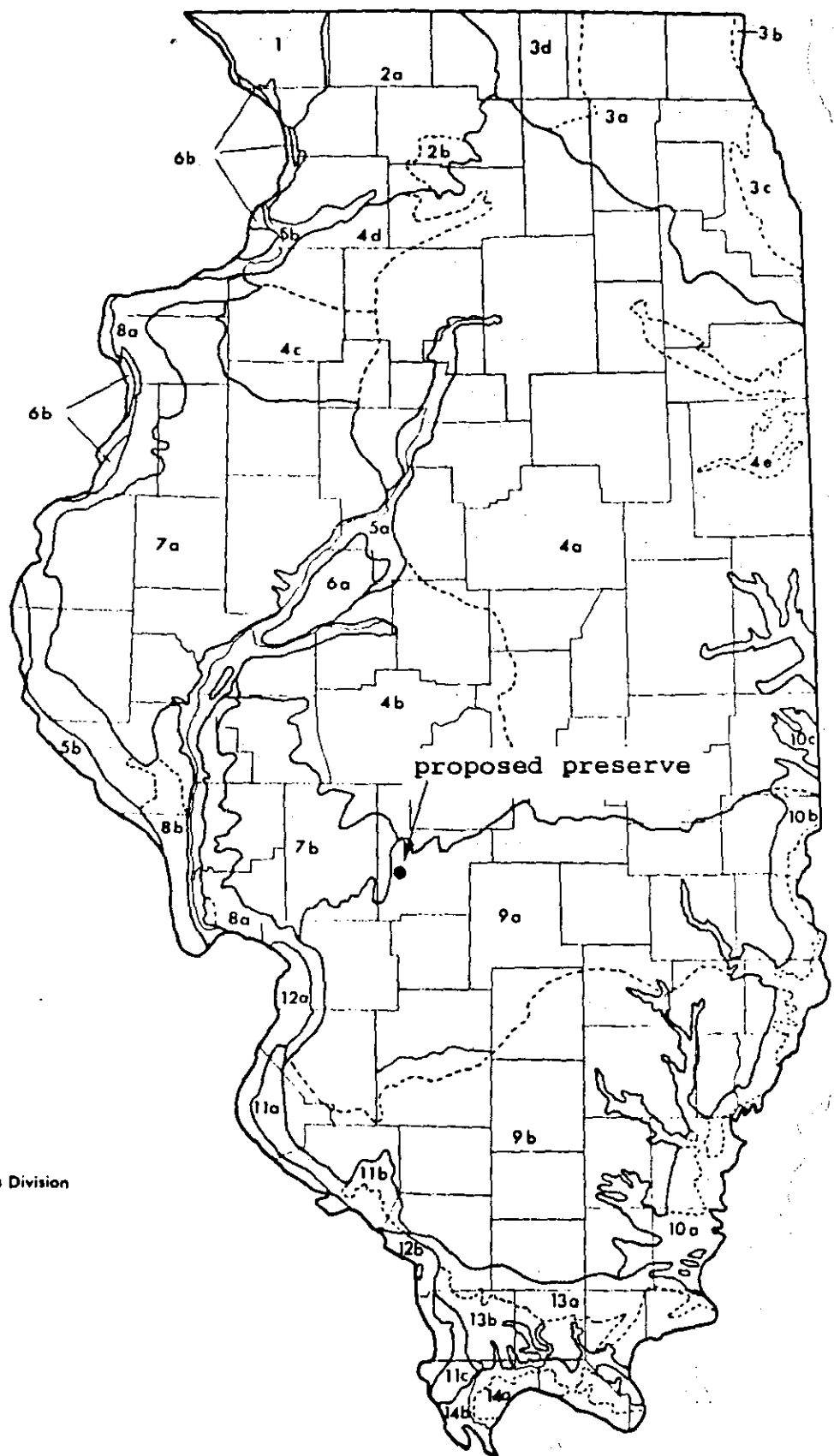


Figure 3. Map of the Natural Divisions of Illinois showing the location of the proposed Shoal Creek Nature Preserve.



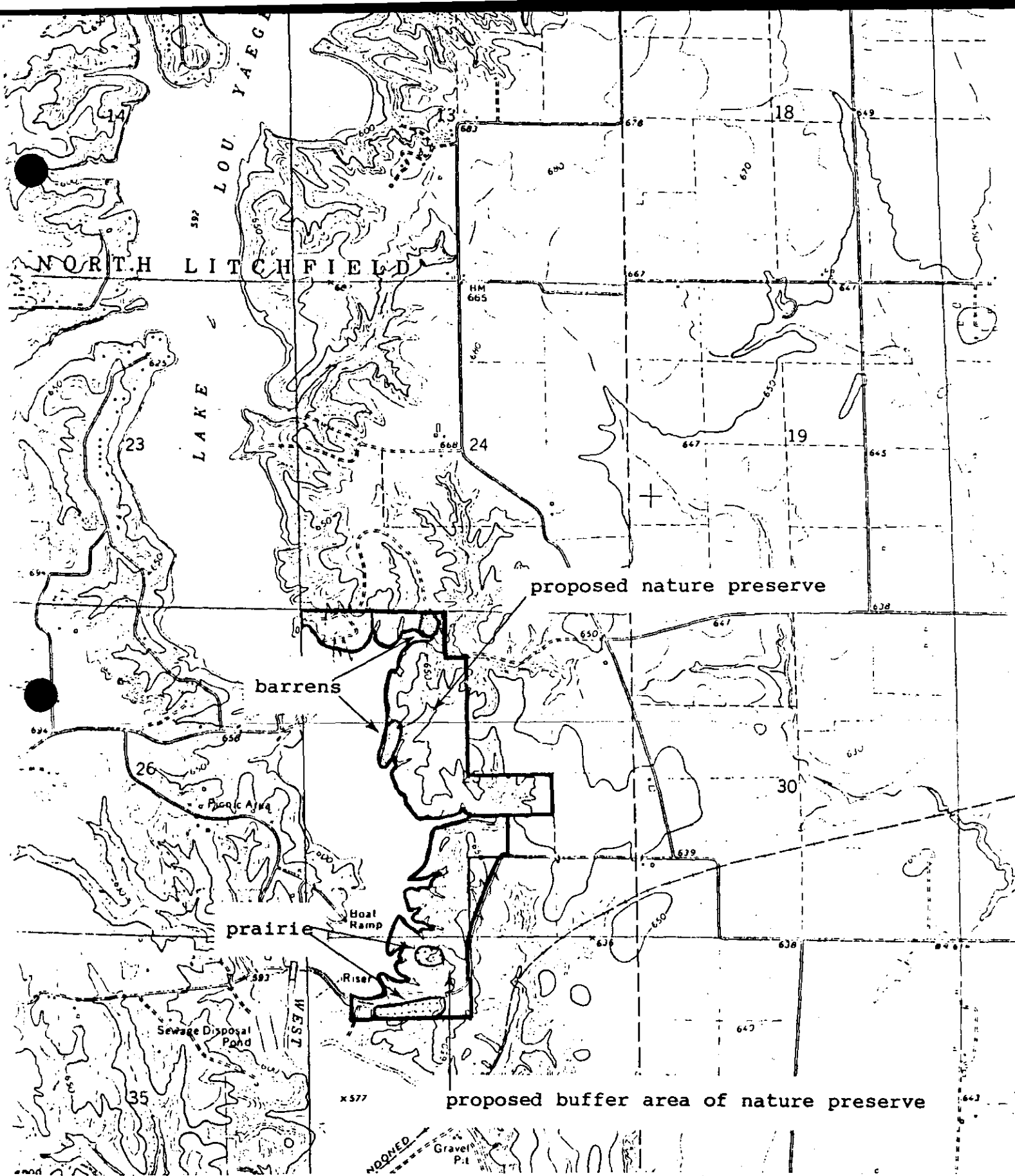
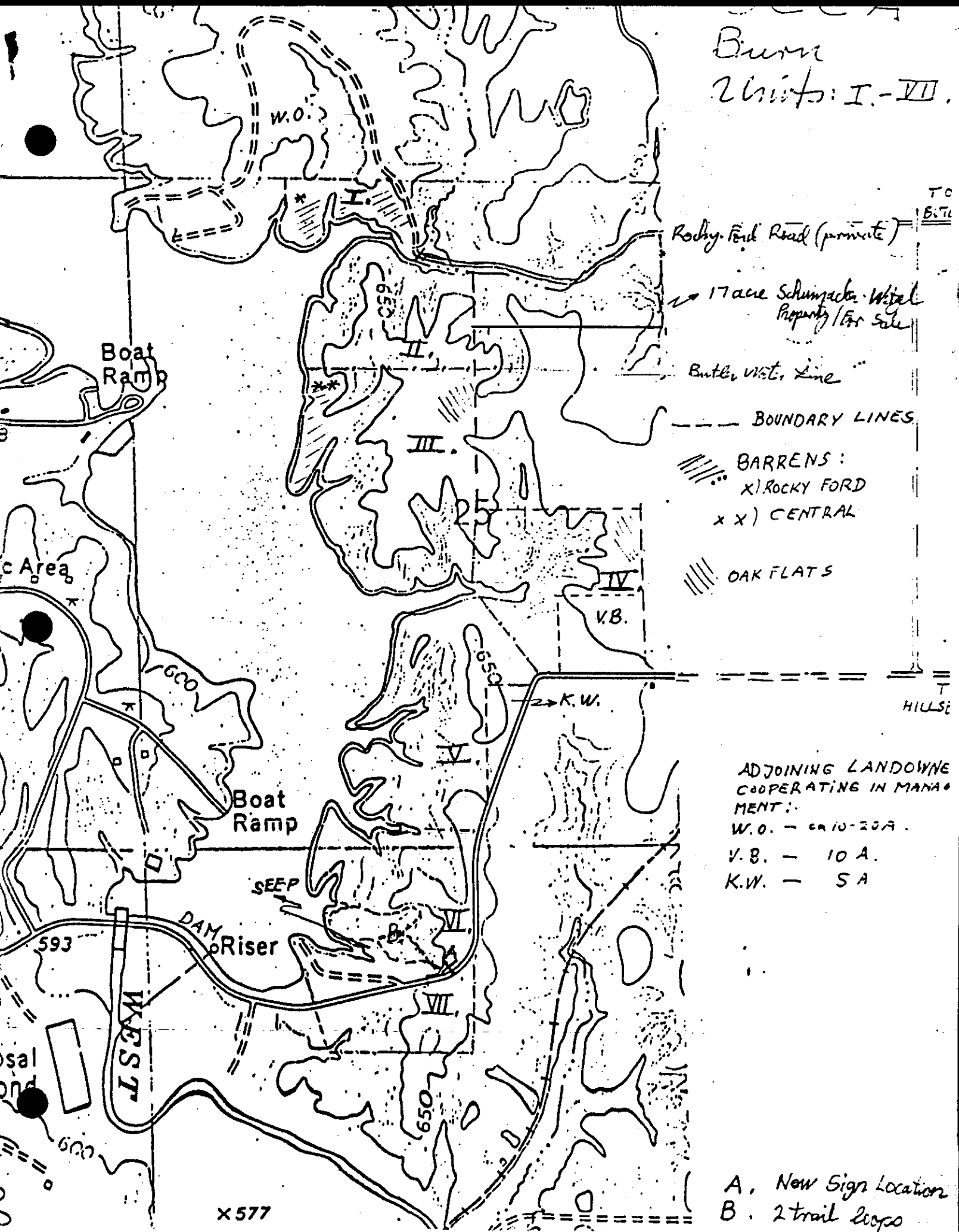
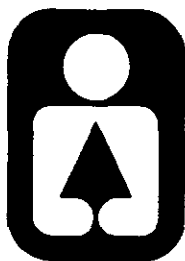


Figure 2. Boundaries of the proposed Shoal Creek Nature Preserve, Montgomery County, Illinois.

Burn  
Units: I.-VII.



Illinois



Department of Conservation

life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787  
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601

Brent Manning  
Director

John W. Comerio  
Deputy Director

Bruce F. Clay  
Assistant Director

March 25, 1993

Mr. Andrew N. Miller  
412 N. McGown St.  
P.O. Box 64  
Raymond, IL 62560

Dear Mr. Miller:

This letter will acknowledge receipt of the Small Project Proposal for FY94 which you have submitted.

The number your project has been assigned is 94-008.

Sincerely,

Carl Becker, Chief  
Division of Natural Heritage

CNB:mn

**Kingdom Myceteae**

**Division Ascomycota**  
**Class Hymenoascomycetes**  
**Order Pezizales**  
**Family Leotiaceae**

*Leotia lubrica* Fries  
6-29-93  
terrestrial

**Family Helvellaceae**

*Gyromitra fastigiata* (Krombh.) Rehm  
4-25-93      South  
terrestrial

*Helvella acetabulum* (Fr.) Quel.  
5-14-93      Central  
terrestrial

*Helvella crispa* Fr.  
6-10-93      Central  
terrestrial

*Helvella pezizoides* Fries  
6-29-93  
terrestrial

**Family Morchellaceae**

*Morchella deliciosa* Fr.  
4-25-93      South  
terrestrial

*Morchella esculenta* Fr.  
5-2, 5-9, and 5-13-93      North  
terrestrial under Post Oak



**Family Pyronemataceae**

*Humaria hemispherica* (Fr.) Fuckel  
6-29-93  
terrestrial

*Scutellaria scutellata* (Fr.) Lambotte  
5-14-93 Central  
terrestrial

**Family Sarcoscyphaceae**

*Sarcoscypha occidentalis* (Schw.) Sacc.  
5-14-93 Central  
lignicolous on dead limb

**Family Sarcosomataceae**

*Urnula craterium* (Schw.) Fr.  
5-14-93 Central  
terrestrial

## Kingdom Mycetozoa

Division Basidiomycota  
 Class Holobasidiomycetes  
 Subclass Hymenomycetidae  
 Order Agaricales  
 Family Agaricaceae

*Agaricus campestris* Fries  
 6-28-94 South  
 terrestrial

## Family Amanitaceae

*Amanita brunnescens* Atkinson  
 6-10-93 Central  
 terrestrial

*Amanita flavoconia* Atkinson  
 6-19-93 North  
 terrestrial

*Amanita flavorubescens* Atkinson  
 6-29-93  
 terrestrial

*Amanita rubescens* (Fr.) S. F. Gray  
 6-19, 7-2, and 7-17-93 North, Central, and South  
 terrestrial

*Amanita russuloides* Peck  
 6-29-93  
 terrestrial

## Family Bolbitiaceae

*Conocybe lactea* (Lge.) Metrod  
 6-29-93  
 terrestrial

## Family Coprinaceae

*Coprinus micaceus* (Fr.) Fr.  
 4-25-93 South  
 lignicolous on rotting stump

## Family Lepiotaceae

*Lepiota caerulescens* Peck  
 6-29-93  
 terrestrial

## Family Pluteaceae

*Pluteus cervinus* (Fr.) Kummer  
 5-13-93 North  
 lignicolous on stumps

**Family Russulaceae**

- Laccaria ochrepurpurea* (Berk.) Peck  
10-10-93 South  
terrestrial
- Lactarius argillaceifolius* Hester and Smith  
6-29-93 South  
terrestrial
- Lactarius camphoratus* (Fr.) Fr.  
6-29-93  
terrestrial
- Lactarius corrugis* Peck  
6-29-93  
terrestrial
- Lactarius indigo* (Schw.) Fr.  
7-2, 7-17-93 Central and South  
terrestrial
- Lactarius piperatus* (Fr.) S. F. Gray  
7-8-93 North  
terrestrial
- Lactarius psannicola* Hester and Smith  
6-29-93  
terrestrial
- Lactarius volemus* (Fr.) Fr.  
6-29, 7-8-93 North  
terrestrial
- Russula brevipes* Peck  
6-29-93  
terrestrial
- Russula compacta* Frost in Peck  
6-29-93 North  
terrestrial
- Russula pulverulenta*  
6-29-93  
terrestrial
- Russula variata* Banning  
6-29-93 North  
terrestrial
- Russula virescens* Fr.  
6-19-93 South  
terrestrial

**Family Tricholomataceae**

- Tricholoma sejunctum* (Fr.) Quel.  
10-10-93 South  
terrestrial

**Order Boletales**  
**Family Boletaceae**

- Boletiniellus merulioides* (Schw.) Murr.  
 6-19-93 South  
 terrestrial
- Boletus affinis* Peck  
 6-29-93  
 terrestrial
- Boletus auriporus* Peck  
 6-29-93  
 terrestrial
- Boletus campestris* Smith & Thiers  
 6-10-93 Central  
 terrestrial
- Boletus griseus* Peck  
 6-19-93 South  
 terrestrial
- Boletus seperans* Peck  
 6-29, and 7-2-93 South and Central  
 terrestrial
- Boletus subglabripes* Peck  
 6-29-93  
 terrestrial
- Boletus "variipes"* Peck  
 6-29-93  
 terrestrial
- Leccinum rugosiceps* (Peck) Singer  
 6-29, and 7-25-93 South  
 terrestrial
- Strobilomyces confusus* Singer  
 6-29-93  
 terrestrial
- Strobilomyces floccopus* (Fr.) Karsten  
 6-29, and 7-8-93 North and South  
 terrestrial
- Tylopilus badiceps* (Pk.) Smith & Thiers  
 6-29-93  
 terrestrial
- Tylopilus rubrobrunneus* Mazzer & Smith  
 6-21, and 6-29-93 Central and North  
 terrestrial

**Order Cantharellales**  
**Family Cantharellaceae**

- Cantharellus cibaris* Fries  
 6-21, 6-29, 7-8, 7-25-93, and 6-28-94  
 Central, North, and South  
 terrestrial
- Cantharellus cinnabarinus* Schw.  
 6-29-93 North  
 terrestrial
- Craterellus fallax* Smith  
 6-29-93  
 terrestrial
- Craterellus foetidus* Smith  
 6-19-93 North  
 terrestrial at base of hill on sandy soil

**Order Clavariales**  
**Family Clavariaceae**

- Clavaria zollingeri* Leveille  
 6-29-93 North  
 terrestrial
- Clavulina cinera* (Fr.) Schroet.  
 6-29-93 North  
 terrestrial
- Ramaria stricta* (Fr.) Quel.  
 7-17-93 South  
 lignicolous on dead wild cherry branch

**Order Hydnales**  
**Family Hericiaceae**

- Hericium erinaceus* Pers.  
 5-13-93 Central  
 lignicolous on dead tree trunk

**Order Polyporales**  
**Family Polyporaceae**

- Polyporus arcularius* Fr.  
 5-14-93 Central  
 lignicolous on dead branch
- Trametes versicolor* (Fr.) Pil.  
 7-17-93 South  
 lignicolous on dead branch
- Pycnoporus cinnabarinus* (Fr.) Karst.  
 4-17-94 North  
 lignicolous on dead branch

**Subclass Gasteromycetidae**  
**Order Lycoperdales**  
**Family Geastraceae**

*Geastrum rufescens* Persoon  
5-14-93 Central  
terrestrial

**Family Lycoperdaceae**

*Lycoperdon perlatum* Pers.  
6-23-93 South  
terrestrial

**Order Nidulariales**  
**Family Nidulariaceae**

*Crucibulum laeve* (Huds. ex Relh.) Kambly  
6-29-93 South  
lignicolous on dead twigs

**Class Phragmobasidiomycetes**  
**Order Auriculariales**  
**Family Auriculariaceae**

*Auricularia auricula* (Hook.) Underwood  
5-14-93 Central  
lignicolous on dead branch

*Exidia glandulosa* Bull ex. Fr.  
4-30-94 South  
lignicolous on dead branch

**Order Tremellales**  
**Family Tremellaceae**

*Tremellodendron schweinitzii* (Pk.) Atkinson  
6-19-93 North  
terrestrial