

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

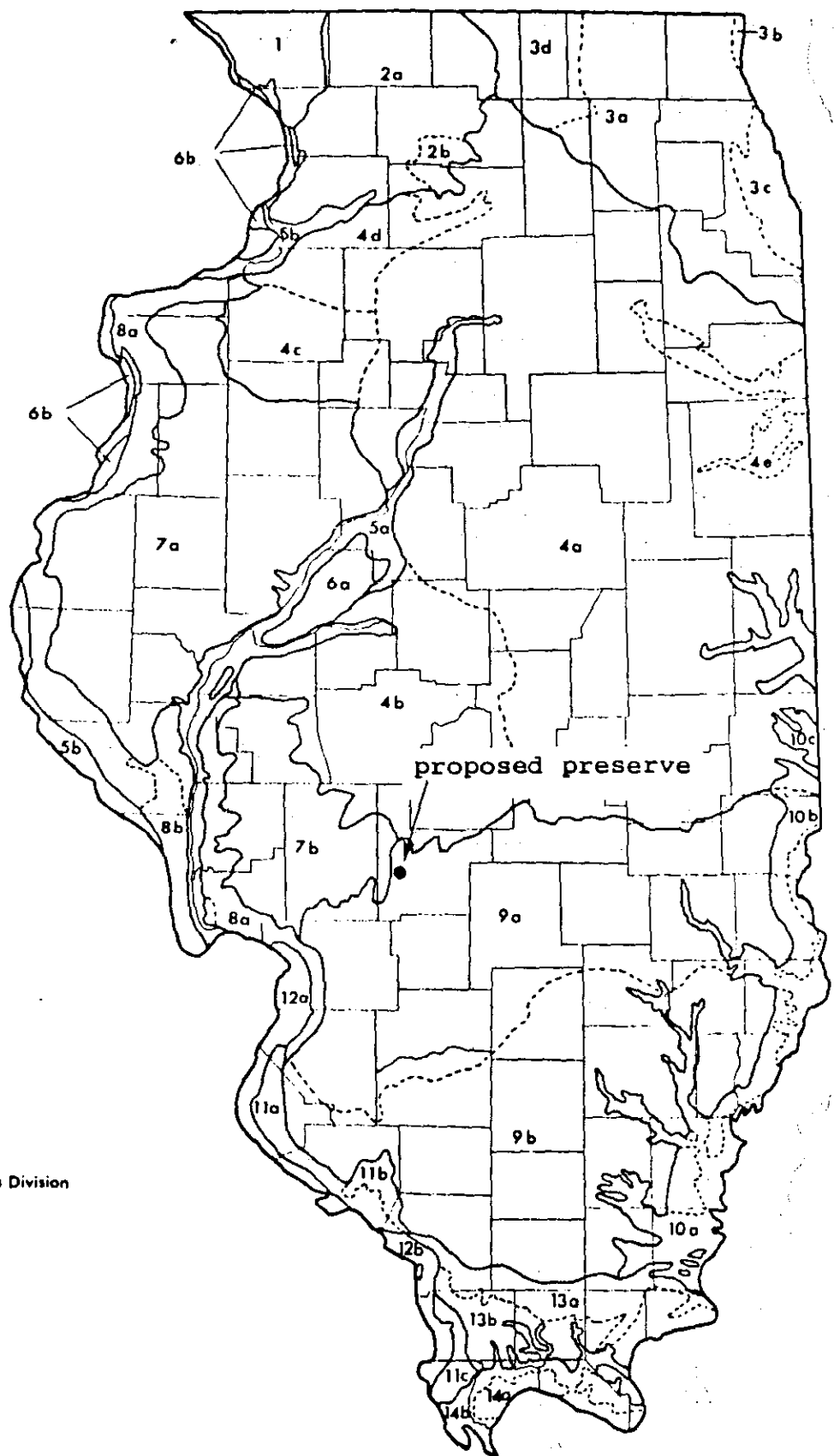


Figure 3. Map of the Natural Divisions of Illinois showing the location of the proposed Shoal Creek Nature Preserve.

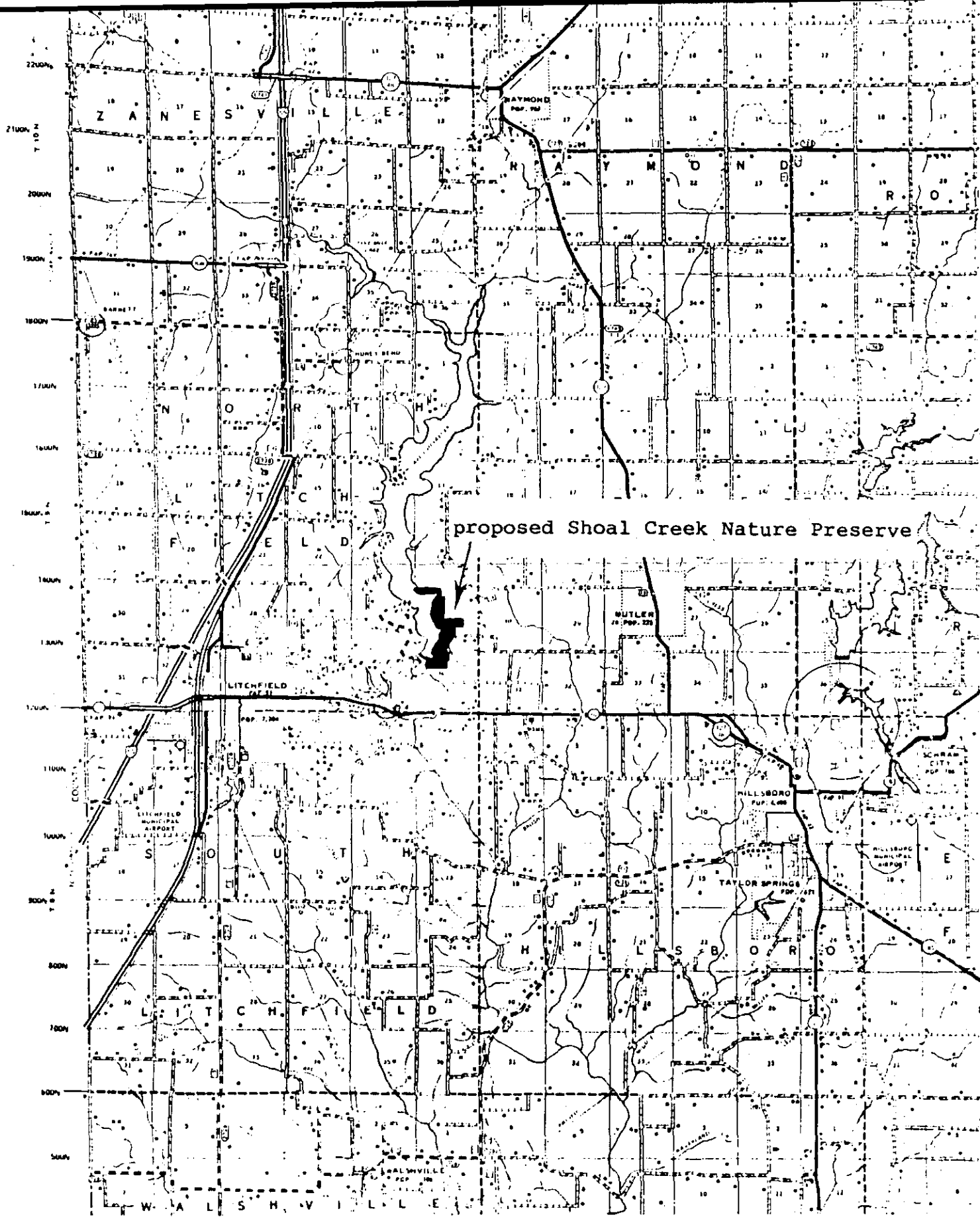


Figure 1. Location of the proposed Shoal Creek Nature Preserve northeast of Litchfield in Montgomery County, Illinois.

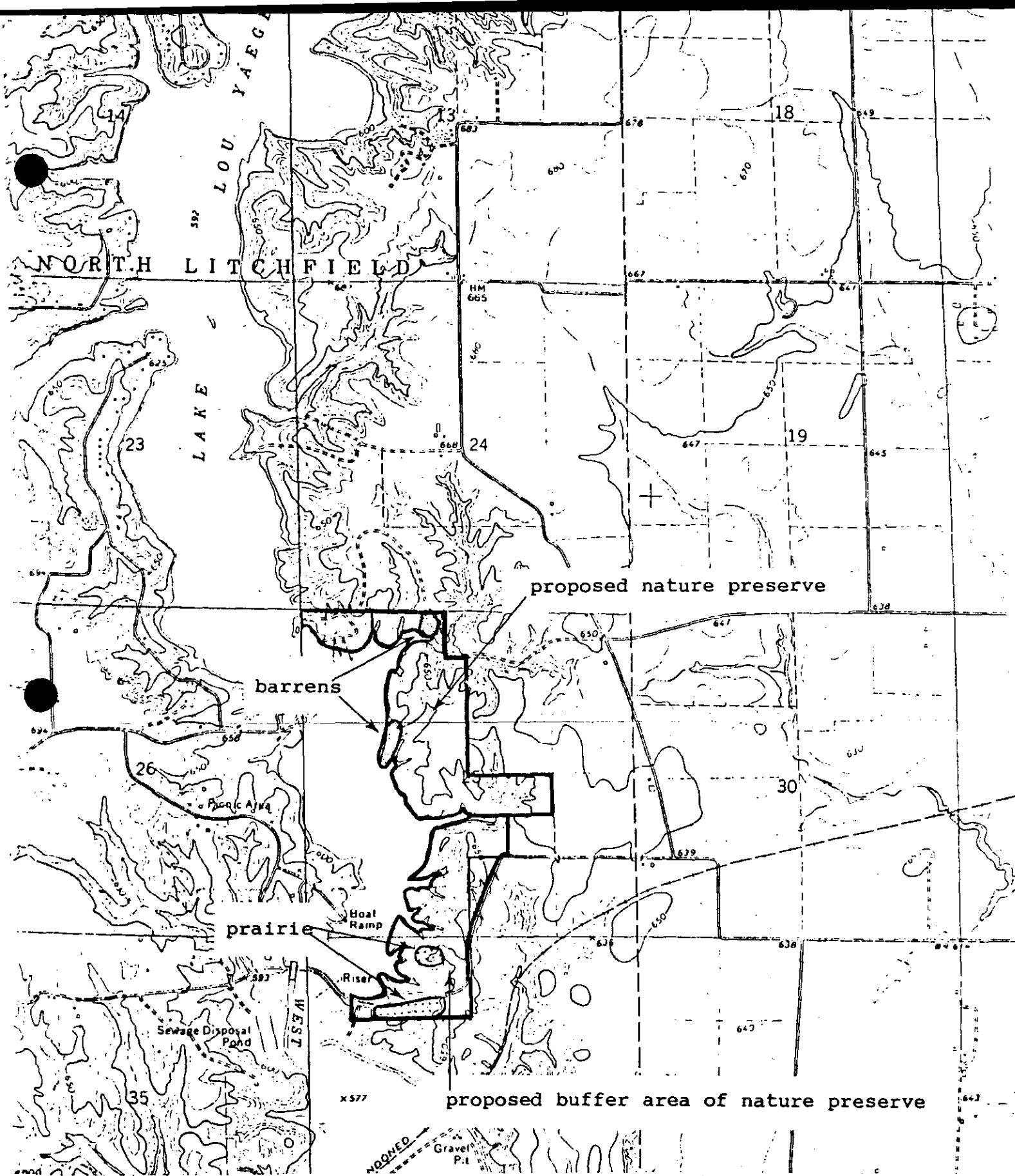
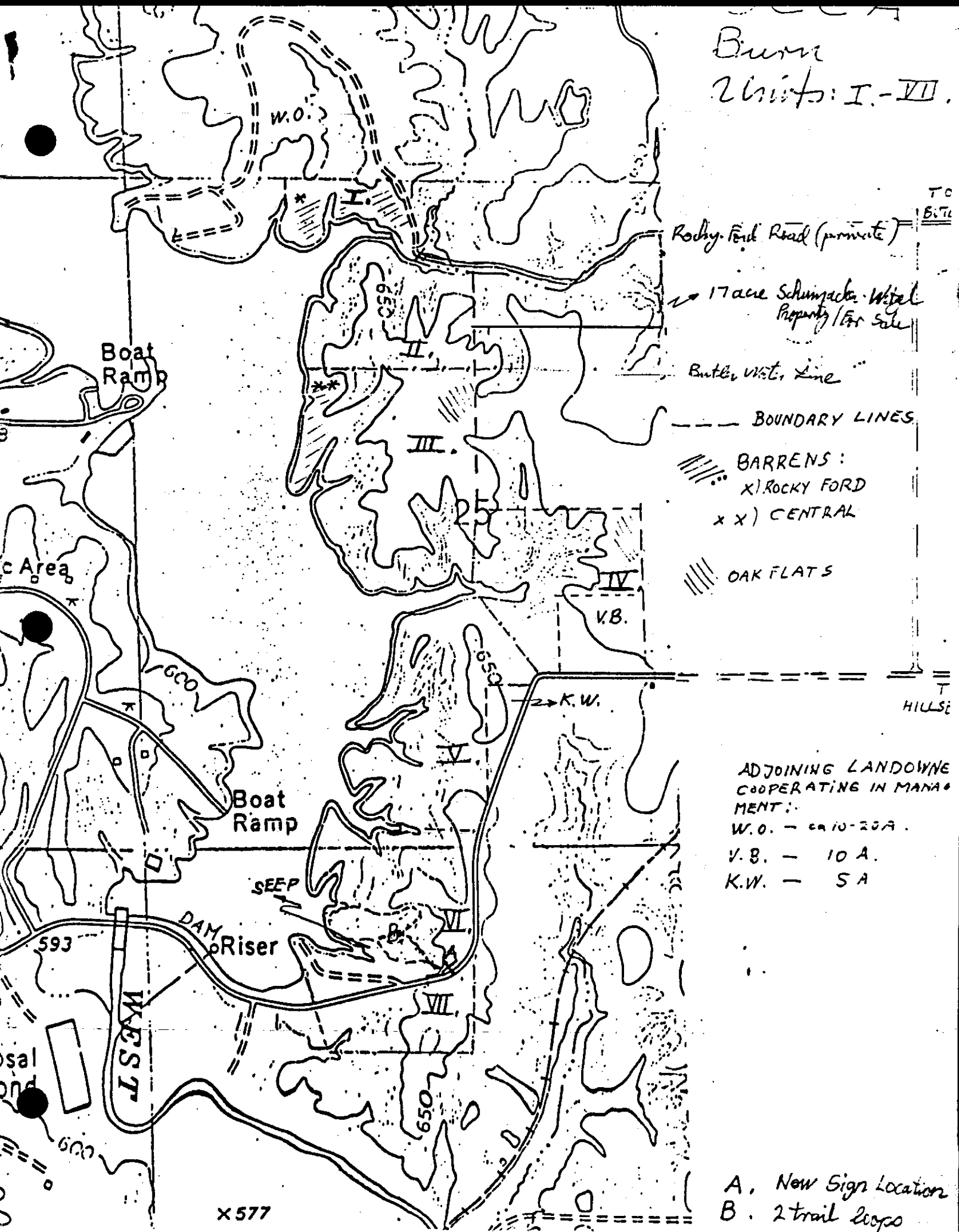
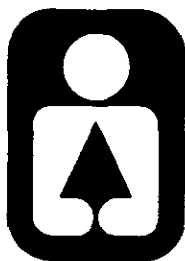


Figure 2. Boundaries of the proposed Shoal Creek Nature Preserve, Montgomery County, Illinois.

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