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UA66/6 Brigadoon Nature Preserve Survey Phase I


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THE BRIGADOON NATURE PRESERVE SURVEY

PHASE I

A preliminary report of an ongoing survey on the mammals, birds, vascular plants, and fungi that have been recorded at the Brigadoon Nature Preserve from November, 1983 - September, 1984

as presented to the Ogden College Foundation

by

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We would also like to acknowledge Dr. and Mrs. Russell Starr for providing valuable insight into the background and natural history of the Preserve, and for their uncommon generosity in donating the study area to Western Kentucky University for scientific purposes.

PROJECT SUMMARY

On September 1, 1983, Western Kentucky University entered into an agreement with the Kentucky Nature Conservancy in which the University became the lessee of a 95 acre tract of land known as the Brigadoon Nature Preserve. This land was donated to the Kentucky Nature Conservancy by the owners, Dr. and Mrs. Russell Starr of Glasgow, Kentucky with the stipulations that the land be retained in its natural condition and used by the University for various classroom and research activities.

This latter stipulation prompted a need for an extensive inventory of the flora and fauna found on the Preserve. This work is to be divided into several phases, with each phase concentrating on a specific aspect of the inventory. The results are to be published upon completion of the survey to serve both as a permanent record of the natural history of the area and as a data base against which future comparisons can be made. Phase I of this inventory is the subject of this report.

Phase I deals specifically with a survey of the mammals, birds, vascular plants and fungi found on the Preserve. Formal data collections commenced in November, 1983 and have been proceeding at regular monthly intervals since that time, averaging four to five trips per month. Activities vary during each trip, depending upon which aspects of the survey are of immediate concern. As one would expect, the identification of species within each group requires different procedures due to the diverse nature of the groups being studied. Listed below is a brief description of the methods employed for each of the four groups,

along with any other information of significance. It is important to note that every attempt was made to honor the stipulation set forth in the original agreement that the area be retained in its natural condition with little, if any, disturbance to the plant or animal life present. Only under those special circumstances outlined below were specimens taken from the preserve or actual collections made.

Mammals. Mammal species occupying the Preserve were determined by the direct observation of the mammal, the identification of fresh mammal signs, and the use of various trapping techniques. Trapping techniques were restricted to live traps and sunken cans to prevent harming the mammal.

Birds. Birds were identified by walking and recording those species heard and/or seen on the Preserve. Those species recorded while flying over the Preserve are represented in the results by an asterisk adjacent to their common name. Also recorded is the status of the bird in the state with the following abbreviations applying: PR = Permanent resident; SR = Summer resident; WR = Winter resident; T = Transient.

Vascular Plants. The vascular plants included in this survey were identified in the field in most instances; however, some species required closer inspection and had to be transported back to the laboratory for positive identification. This was especially true for some of the grasses and the members of the family Asteraceae. In these cases, no more than two individuals of the species in question were collected and transported back to the laboratory. Those species that were introduced and/or cultivated are represented in the results by an asterisk adjacent to their scientific name.

Fungi. The identification of fungi to the genus and species level usually demands close examination of the spores and hyphae. It was therefore necessary to collect several fungal samples in order to reach a positive identification. Those species that could be identified in the field without collecting were not sacrificed. Common names were not included in these results, as most fungi do not possess common names.

With respect to taxa, the following figures apply as of October 1, 1984: Mammals are represented by 19 species of 18 genera and 12 families; Birds are represented by 121 species of 31 families and 12 orders; Vascular plants are

represented by 315 species of 239 genera and 93 families; and Fungi are represented by 46 genera, of which 35 species have been positively identified. It should be noted that only those species observed during the study period are included in this report; other species known to occur on the Preserve, such as Goldenseal (Hydrastis canadensis), Ginseng (Panax quinquefolium), and several species of birds, are not included as they had not been observed between November, 1983 and September, 1984.

These results are not intended to be conclusive; they are intended to serve as base-line data against which further investigations may be compared. As work continues, more species will be added or deleted, and a more comprehensive inventory will be compiled. In addition, much work remains to be done in that surveys of other organisms must be initiated, and pertinent ecological determinations must be made. It is with these considerations in mind that the following annotated lists of mammals, birds, vascular plants, and fungi are presented.

CLASS MAMMALIA



Order Marsupialia

Didelphidae

Didelphis virginiana

Virginia Opossum

Order Insectivora

Soricidae

Blarina brevicauda

Short-tailed Shrew

Cryptotis parva

Least Shrew

Talpidae

Scalopus aquaticus

Eastern Mole

Order Chiroptera

Vespertilionidae

Lasiurus borealis

Red Bat

Order Lagomorpha

Leporidae

Sylvilagus floridanus

Eastern Cottontail

Order Rodentia

Sciuridae

Tamias striatus

Eastern Chipmunk

Marmota monax

Groundhog

Sciurus carolinensis

Gray Squirrel

Glaucomys volans

Southern Flying Squirrel

Order Rodentia (con.)

MAMMALIA (con.)

Cricetidae

<u>Reithrodontomys humulis</u>	Eastern Harvest Mouse
<u>Peromyscus maniculatus</u>	Prairie Deer Mouse
<u>Peromyscus leucopus</u>	White-footed Mouse
<u>Microtus ochrogaster</u>	Prairie Vole

Muridae

<u>Mus musculus</u>	House Mouse
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Order Carnivora

Canidae

<u>Vulpes vulpes</u>	Red Fox
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Procyonidae

<u>Procyon lotor</u>	Raccoon
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Mustelidae

<u>Mephitis mephitis</u>	Striped Skunk
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Order Artiodactyla

Cervidae

<u>Odocoileus virginianus</u>	White-tailed Deer
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CLASS AVES

ORDER CICONIIFORMES

Ardeidae

*Great Blue Heron	<u>Ardea herodias</u>	PR
Green-backed Heron	<u>Butorides striatus</u>	SR

ORDER ANSERIFORMES

Anatidae

Wood Duck	<u>Aix sponsa</u>	PR
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ORDER FALCONIFORMES

Carthartidae

*Turkey Vulture	<u>Cathartes aura</u>	PR
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Accipitridae

*Osprey	<u>Pandion haliaetus</u>	PR
Sharp-shinned Hawk	<u>Accipiter striatus</u>	PR
Red-shouldered Hawk	<u>Buteo lineatus</u>	PR
Broad-winged Hawk	<u>Buteo platypterus</u>	SR
Red-tailed Hawk	<u>Buteo jamaicensis</u>	PR

Falconidae

*American Kestrel	<u>Falco sparverius</u>	PR
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AVES (con.)

ORDER GALLIFORMES

Phasianidae

Northern Bobwhite

Colinus virginianus

PR

ORDER CHARADRIIFORMES

Charadriidae

Killdeer

Charadrius vociferus

PR

Scolopacidae

*Greater Yellowlegs

Tringa melanoleuca

T

American Woodcock

Scolopax minor

SR

ORDER COLUMBIFORMES

Columbidae

*Rock Dove

Columba livia

PR

Mourning Dove

Zenaida macroura

PR

ORDER CUCULIFORMES

Cuculidae

Yellow-billed Cuckoo

Coccyzus americanus

SR

AVES (con.)

ORDER STRIGIFORMES

Strigidae

Eastern Screech Owl	<u>Otus asio</u>	PR
Great Horned Owl	<u>Bubo virginianus</u>	PR
Barred Owl	<u>Strix varia</u>	PR

ORDER CAPRIMULGIFORMES

Caprimulgidae

Chuck-will's-widow	<u>Caprimulgus carolinensis</u>	SR
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ORDER APODIFORMES

Apodidae

Chimney Swift	<u>Chaetura pelagica</u>	SR
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Trochilidae

Ruby-throated Hummingbird	<u>Archilochus colubris</u>	SR
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ORDER CORACIIFORMES

Alcedinidae

*Belted Kingfisher	<u>Ceryle alcyon</u>	PR
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AVES (con.)

ORDER PICIFORMES

Picidae

Red-bellied Woodpecker	<u>Melanerpes carolinus</u>	PR
Yellow-bellied Sapsucker	<u>Sphyrapicus varius</u>	WR
Downy Woodpecker	<u>Picoides pubescens</u>	PR
Hairy Woodpecker	<u>Picoides villosus</u>	PR
Northern Flicker	<u>Colaptes auratus</u>	PR
Pileated Woodpecker	<u>Dryocopus pileatus</u>	PR

ORDER PASSERIFORMES

Tyrannidae

Eastern Wood-Pewee	<u>Contopus virens</u>	SR
Acadian Flycatcher	<u>Empidonax virescens</u>	SR
Least Flycatcher	<u>Empidonax minimus</u>	T
Other Empidonax	<u>Empidonax spp.</u>	T
Eastern Phoebe	<u>Sayornis phoebe</u>	SR(RARE PR)
Great Crested Flycatcher	<u>Myiarchus crinitus</u>	S
Eastern Kingbird	<u>Tyrannus tyrannus</u>	SR

Hirundinidae

*Purple Martin	<u>Progne subis</u>	SR
*Cliff Swallow	<u>Hirundo pyrrhonota</u>	SR
Barn Swallow	<u>Hirundo rustica</u>	SR

AVES (con.)

Corvidae

Blue Jay	<u>Cyanocitta cristata</u>	PR
American Crow	<u>Corvus brachyrhynchos</u>	PR

Paridae

Carolina Chickadee	<u>Parus carolinensis</u>	PR
Tufted Titmouse	<u>Parus bicolor</u>	PR

Sittidae

Red-breasted Nuthatch	<u>Sitta canadensis</u>	WR
White-breasted Nuthatch	<u>Sitta carolinensis</u>	PR

Certhiidae

Brown Creeper	<u>Certhia americana</u>	WR
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Troglodytidae

Carolina Wren	<u>Thryothorus ludovicianus</u>	PR
Winter Wren	<u>Troglodytes troglodytes</u>	WR

Muscicapidae

Subfamily Sylviinae

Golden-crowned Kinglet	<u>Regulus satrapa</u>	WR
Blue-gray Gnatcatcher	<u>Polioptila caerulea</u>	SR

AVES (con.)

Subfamily Turdinae

Eastern Bluebird	<u>Sialia sialis</u>	PR
Gray-cheeked Thrush	<u>Catharus minimus</u>	T
Swainson's Thrush	<u>Catharus ustulatus</u>	T
Hermit Thrush	<u>Catharus guttatus</u>	WR
Wood Thrush	<u>Hylocichla mustelina</u>	SR
American Robin	<u>Turdus migratorius</u>	PR

Mimidae

Gray Catbird	<u>Dumetella carolinensis</u>	SR
Northern Mockingbird	<u>Mimus polyglottos</u>	PR
Brown Thrasher	<u>Toxostoma rufum</u>	PR

Bombycillidae

Cedar Waxwing	<u>Bombycilla cedrorum</u>	PR
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Sturnidae

European Starling	<u>Sturnus vulgaris</u>	PR
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Vireonidae

White-eyed Vireo	<u>Vireo griseus</u>	SR
Solitary Vireo	<u>Vireo solitarius</u>	T
Yellow-throated Vireo	<u>Vireo flavifrons</u>	SR
Warbling Vireo	<u>Vireo gilvus</u>	SR
Red-eyed Vireo	<u>Vireo olivaceus</u>	SR

EmberizidaeSubfamily Parulinae

Blue-winged Warbler	<u>Vermivora pinus</u>	SR
Golden-winged Warbler	<u>Vermivora crysoptera</u>	T
Tennessee Warbler	<u>Vermivora peregrina</u>	T
Nashville Warbler	<u>Vermivora ruficapilla</u>	T
Northern Parula	<u>Parula americana</u>	SR
Yellow Warbler	<u>Dendroica petechia</u>	SR
Chestnut-sided Warbler	<u>Dendroica pensylvanica</u>	T
Magnolia Warbler	<u>Dendroica magnolia</u>	T
Cape May Warbler	<u>Dendroica tigrina</u>	T
Yellow-rumped Warbler	<u>Dendroica coronata</u>	WR
Black-throated Green Warbler	<u>Dendroica virens</u>	T
Blackburnian Warbler	<u>Dendroica fusca</u>	T
Yellow-throated Warbler	<u>Dendroica dominica</u>	SR
Pine Warbler	<u>Dendroica pinus</u>	SR
Prairie Warbler	<u>Dendroica discolor</u>	SR
Palm Warbler	<u>Dendroica palmarum</u>	T
Bay-breasted Warbler	<u>Dendroica castanea</u>	T
Blackpoll Warbler	<u>Dendroica striata</u>	T
Cerulean Warbler	<u>Dendroica cerulea</u>	SR
Black-and-White Warbler	<u>Mniotilta varia</u>	SR
American Redstart	<u>Setophaga ruticilla</u>	SR

		<u>AVES</u> (con.)
Prothonotary Warbler	<u>Prothonotaria citrea</u>	SR
Worm-eating Warbler	<u>Helmitheros vermivorus</u>	SR
Ovenbird	<u>Seiurus aurocapillus</u>	SR
Northern Waterthrush	<u>Seiurus noveboracensis</u>	T
Louisiana Waterthrush	<u>Seiurus motacilla</u>	SR
Kentucky Warbler	<u>Oporornis formosus</u>	SR
Mourning Warbler	<u>Oporornis philadelphia</u>	T
Common Yellowthroat	<u>Geothlypis trichas</u>	SR
Hooded Warbler	<u>Wilsonia citrina</u>	SR
Canada Warbler	<u>Wilsonia canadensis</u>	T
Yellow-breasted Chat	<u>Icteria virens</u>	SR
<u>Subfamily Thraupinae</u>		
Summer Tanager	<u>Piranga rubra</u>	SR
Scarlet Tanager	<u>Piranga olivacea</u>	SR
<u>Subfamily Cardinalinae</u>		
Northern Cardinal	<u>Cardinalis cardinalis</u>	PR
Rose-breasted Grosbeak	<u>Pheucticus ludovicianus</u>	T
Blue Grosbeak	<u>Guiraca caerulea</u>	SR
Indigo Bunting	<u>Passerina cyanea</u>	SR

AVES (con.)

Subfamily Emberizinae

Rufous-sided Towhee	<u>Pipilo erythrophthalmus</u>	PR
Chipping Sparrow	<u>Spizella passerina</u>	SR
Field Sparrow	<u>Spizella pusilla</u>	PR
Grasshopper Sparrow	<u>Ammodramus savannarum</u>	SR
Song Sparrow	<u>Melospiza melodia</u>	PR
Swamp Sparrow	<u>Melospiza georgiana</u>	WR
White-throated Sparrow	<u>Zonotrichia albicollis</u>	WR
Dark-eyed Junco	<u>Junco hyemalis</u>	WR

Subfamily Icterinae

Red-winged Blackbird	<u>Agelaius phoeniceus</u>	PR
Eastern Meadowlark	<u>Sturnella magna</u>	PR
Common Grackle	<u>Quiscalus guiscula</u>	PR
Brown-headed Cowbird	<u>Molothrus ater</u>	PR
Orchard Oriole	<u>Icterus spurius</u>	SR
Northern (Baltimore) Oriole	<u>Icterus galbula</u>	SR

Fringillidae

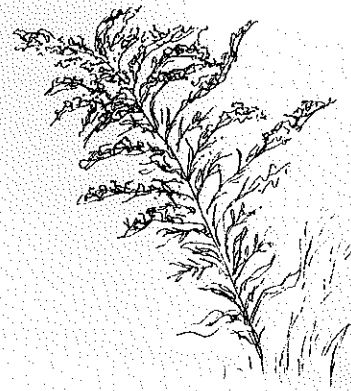
Purple Finch	<u>Carpodacus purpureus</u>	WR
American Goldfinch	<u>Cardeulis tristis</u>	PR

Passeridae

House Sparrow	<u>Passer domesticus</u>	PR
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PLANTAE

Phylum Tracheophyta
Subphylum Lycopsidea



Lycopodiaceae

Lycopodium complanatum Ground Cedar

Selaginellaceae

Selaginella spp. Selaginella

Subphylum Pteropsida
Class Filicinae

Ophioglossaceae

Botrychium dissectum Grape Fern

Botrychium virginianum Virginia Grape Fern

Ophioglossum engelmannii Adder's Tongue Fern

Pteridaceae

Adiantum pedatum Maidenhair Fern

Pteridium aquilinum Bracken Fern

Aspidiaceae

Athyrium pycnocarpon Glade Fern

Cryopteris fragilis Fragile Fern

Polystichum acrostichoides Christmas Fern

Thelypteris hexagonoptera Beech Fern

Aspleniaceae

Asplenium platyneuron

Ebony Spleenwort

Subphylum Spermopsida

Class Gymnospermae

Order Ginkgoales

*Ginkgo biloba

Ginkgo; Maidenhair Tree

Order Coniferales

Pinaceae

Pinus strobus

White Pine

Pinus virginiana

Virginia Pine

*Tsuga canadensis

Eastern Hemlock

Taxodiaceae

*Taxodium distichum

Bald Cypress

Cupressaceae

Juniperus virginiana

Red Cedar

Class Angiospermae

Subclass Monocotyledonae

Typhaceae

Typha latifolia

Cat-tail

Poaceae

<u>Andropogon virginicus</u>	Broom Sedge
<u>Arundinaria gigantea</u>	Cane
<u>Bromus tectorum</u>	Brome grass
<u>Dactylis glomerata</u>	Orchard Grass
<u>Digitaria ischaemum</u>	Smooth Crabgrass
<u>Digitaria sanguinalis</u>	Crabgrass
<u>Elymus virginicus</u>	Virginia Wild Rye
<u>Festuca obtusa</u>	Fescue
<u>Hordeum pusillum</u>	Barley
<u>Hystrix patula</u>	Bottle-brush Grass
<u>Lolium perenne</u>	Rye Grass
<u>Panicum boscii</u>	Panicum
<u>Panicum capillare</u>	Witchgrass
<u>Panicum dichotomum</u>	Panicum
<u>Panicum laxiflorum</u>	Panicum
<u>Phleum pratense</u>	Timothy
<u>Poa annua</u>	Annual Bluegrass
<u>Poa cuspidata</u>	Bluegrass
<u>Poa pratense</u>	Kentucky Bluegrass
<u>Setaria faberii</u>	Foxtail Millet
<u>Setaria glauca</u>	Bristlegrass
<u>Sorghastrum nutans</u>	Indian Grass
<u>Sorghum halepense</u>	Johnson Grass
<u>Sporobolus asper</u>	Dropseed
<u>Uniola latifolia</u>	Spangle Grass
<u>Zea mays</u>	Corn

Cyperaceae

<u>Carex careyana</u>	"sedge"
<u>Carex cephalophora</u>	"sedge"
<u>Carex complanata</u>	"sedge"
<u>Carex crinita</u>	Drooping Sedge
<u>Carex digitalis</u>	"sedge"
<u>Carex festucacea</u>	"sedge"
<u>Carex lupulina</u>	Hop Sedge
<u>Carex muhlenbergii</u>	"sedge"
<u>Carex pennsylvanica</u>	"sedge"
<u>Carex rosea</u>	"sedge"
<u>Carex swanii</u>	"sedge"
<u>Carex virescens</u>	"sedge"
<u>Cyperus strigosus</u>	Umbrella Sedge
<u>Scirpus atrovirens</u>	Small Bulrush

Araceae

<u>Arisaema dracontium</u>	Green Dragon
<u>Arisaema triphyllum</u>	Jack-in-the-pulpit

Commelinaceae

<u>Commelina communis</u>	Dayflower
<u>Tradescantia virginiana</u>	Early Spiderwort

Juncaceae

<u>Luzula campestris</u>	Wood Rush
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Liliaceae

<u>Allium canadense</u>	Wild Garlic
<u>Allium cernuum</u>	Nodding Wild Onion
<u>Allium tricoccum</u>	Wild Leek; Ramp
<u>Allium vineale</u>	Field Garlic
<u>Chamaelirium luteum</u>	Fairy-wand
<u>Erythronium americanum</u>	Yellow Trout-lily
* <u>Hemerocallis fulva</u>	Day Lily
<u>Ornithogalum umbellatum</u>	Star-of-Bethlehem
<u>Polygonatum biflorum</u>	Solomon's Seal
<u>Smilacina racemosa</u>	False Solomon's Seal
<u>Smilax ecirrhata</u>	Erect Carrion Flower
<u>Smilax bona-nox</u>	Bristly Greenbrier
<u>Smilax glauca</u>	Catbrier
<u>Smilax rotundifolia</u>	Greenbrier
<u>Trillium flexipes</u>	Bent Trillium
<u>Trillium grandiflorum</u>	Showy Trillium
<u>Uvularia perfoliata</u>	Bellwort
* <u>Yucca filamentosa</u>	Yucca

Dioscoreaceae

<u>Dioscorea villosa</u>	Wild Yam
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Amaryllidaceae

<u>Hypoxis hirsuta</u>	Yellow Stargrass
* <u>Narcissus spp.</u>	Narcissus

Iridaceae

<u>Iris cristata</u>	Crested Dwarf Iris
<u>Sisyrinchium angustifolium</u>	Blue-eyed Grass

Orchidaceae

<u>Aplectrum hymale</u>	Putty-root
<u>Goodyera pubescens</u>	Rattlesnake-plantain
<u>Liparis lilifolia</u>	Lily-leaved Twayblade
<u>Orchis spectabilis</u>	Showy Orchis
<u>Spiranthes ovalis</u>	Ladies-tresses
<u>Tipularia discolor</u>	Crane-fly Orchid

Subclass Dicotyledonae

Salicaceae

<u>Populus deltoides</u>	Cottonwood
* <u>Salix discolor</u>	Pussy Willow
<u>Salix niger</u>	Black Willow

Juglandaceae

<u>Carya glabra</u>	Pignut Hickory
<u>Carya ovata</u>	Shagbark Hickory
<u>Carya tomentosa</u>	Mockernut Hickory
<u>Juglans cinerea</u>	White Walnut
<u>Juglans nigra</u>	Black Walnut

Betulaceae

<u>Alnus serrulata</u>	Alder
<u>Carpinus caroliniana</u>	Blue Beech; Ironwood
<u>Ostrya virginiana</u>	Hop-hornbeam

Fagaceae

* <u>Castanea mollissima</u>	Chinese Chestnut
<u>Fagus grandifolia</u>	American Beech
<u>Quercus alba</u>	White Oak
<u>Quercus borealis</u>	Red Oak
<u>Quercus muehlenbergii</u>	Chinquapin Oak
<u>Quercus palustris</u>	Pin Oak
<u>Quercus velutina</u>	Black Oak

Ulmaceae

<u>Celtis laevigata</u>	Smooth Hackberry
<u>Celtis occidentalis</u>	Hackberry
<u>Ulmus alata</u>	Winged Elm
<u>Ulmus americana</u>	American Elm
<u>Ulmus rubra</u>	Slippery Elm
<u>Ulmus thomasi</u>	Rock Elm

Moraceae

<u>Maclura pomifera</u>	Osage Orange
<u>Morus alba</u>	White Mulberry
<u>Morus rubra</u>	Red Mulberry

Urticaceae

Laportea canadensis Wood-nettle

Loranthaceae

Phoradendron flavescens Mistletoe

Aristolochiaceae

Asarum canadense Wild Ginger

Polygonaceae

Polygonum aviculare Smartweed

*Polygonum cuspidatum Mexican Bamboo

Rumex acetosella Dock

Phytolaccaceae

Phytolacca americana Pokeweed

Portulacaceae

Claytonia virginica Spring Beauty

Caryophyllaceae

Cerastium nutans Nodding Chickweed

Cerastium viscosum Chickweed

Dianthus armeria Deptford Pink

Silene stellata Starry Campion

Silene virginica Fire Pink

Stellaria media Common Chickweed

Stellaria pubera Star Chickweed

Ranunculaceae

<u>Actaea alba</u>	White Baneberry
<u>Anemone virginiana</u>	Thimbleweed
<u>Anemonella thalictroides</u>	Rue Anemone
<u>Clematis virginiana</u>	Virgin's Bower
<u>Delphinium tricorne</u>	Dwarf Larkspur
<u>Hepatica acutiloba</u>	Hepatica
<u>Isopyrum biternatum</u>	False Rue Anemone
<u>Ranunculus abortivus</u>	Crowfoot
<u>Ranunculus hispidus</u>	Hairy Buttercup
<u>Ranunculus recurvatus</u>	Hooked Crowfoot

Berberidaceae

<u>Jeffersonia diphylla</u>	Twinleaf
<u>Podophyllum peltatum</u>	Mayapple

Menispermaceae

<u>Menispermum canadense</u>	Moonseed
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Magnoliaceae

<u>Liriodendron tulipifera</u>	Tulip Poplar
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Calycanthaceae

* <u>Calycanthus floridus</u>	Flowering Allspice
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Annonaceae

<u>Asimina triloba</u>	Papaw
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Lauraceae

<u>Lindera benzoin</u>	Spicebush
<u>Sassafras albidum</u>	Sassafras

Papaveraceae

<u>Sanquinaria canadensis</u>	Bloodroot
<u>Stylophorum diphyllum</u>	Celandine Poppy

Fumariaceae

<u>Corydalis flavula</u>	Yellow Corydalis
<u>Corydalis sempervirens</u>	Pink Corydalis
<u>Dicentra canadensis</u>	Squirrel-corn

Brassicaceae

<u>Alliaria officinalis</u>	Garlic Mustard
<u>Barbarea vulgaris</u>	Winter Cress
<u>Cardamine bulbosa</u>	Spring Cress
<u>Cardamine douglassi</u>	Purple Cress
<u>Dentaria lacinata</u>	Cut-leaf Toothwort
<u>Dentaria multifida</u>	Cut-leaf Toothwort
<u>Nasturtium officinale</u>	Water Cress

Crassulaceae

<u>Sedum ternatum</u>	Stonecrop
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Saxifragaceae

<u>Heuchera americana</u>	Alum Root
<u>Hydrangea arborescens</u>	Wild Hydrangea
<u>Mitella diphylla</u>	Bishop's Cap
<u>Saxifraga virginensis</u>	Early Saxifrage

Hamamelidaceae

<u>Hamamelis virginiana</u>	Witch-hazel
<u>Liquidambar styraciflua</u>	Sweet Gum

Platanaceae

<u>Platanus occidentalis</u>	Sycamore
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Rosaceae

<u>Amelanchier arborea</u>	Serviceberry
<u>Duchesnea indica</u>	Mock Strawberry
<u>Fragaria virginiana</u>	Wild Strawberry
<u>Potentilla simplex</u>	Common Cinquefoil
* <u>Prunus persica</u>	Peach
<u>Prunus serotina</u>	Wild Black Cherry
* <u>Pyrus communis</u>	Pear
* <u>Pyrus malus</u>	Apple
<u>Rosa multiflora</u>	Multiflora Rose
<u>Rubus occidentalis</u>	Black Raspberry
<u>Rubus spp.</u>	(Cultivated varieties of blackberries and dewberries)

Fabaceae

<u>Cassia fasciculata</u>	Partridge-pea
<u>Cassia nictitans</u>	Small Flowered Sensitive Plant
<u>Cercis canadensis</u>	Redbud
<u>Coronilla varia</u>	Crown Vetch
<u>Desmodium laevigatum</u>	Tick-trefoil
<u>Gleditsia tricanthos</u>	Honey Locust
* <u>Gymnocladus dioica</u>	Kentucky Coffee Tree
* <u>Lespedeza cuneata</u>	Sericea Lespedeza
<u>Lespedeza repens</u>	Bush-clover
<u>Lespedeza stipulacea</u>	Korean Lespedeza
<u>Melilotus alba</u>	White Sweet Clover
<u>Robinia pseudoacacia</u>	Black Locust
<u>Trifolium pratense</u>	Red Clover
<u>Vicia sativa</u>	Spring Vetch
<u>Vicia villosa</u>	Hairy Vetch

Oxalidaceae

<u>Oxalis dillenii</u>	Yellow Wood-sorrel
<u>Oxalis violacea</u>	Violet Wood-sorrel

Geraniaceae

<u>Geranium carolinianum</u>	Geranium
<u>Geranium maculatum</u>	Wild Geranium

Buxaceae

<u>Pachysandra procumbens</u>	Allegheny Spurge
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Anacardiaceae

<u>*Cotinus obovatus</u>	Smoke Tree
<u>Rhus copallinum</u>	Winged Sumac
<u>Rhus glabra</u>	Smooth Sumac
<u>Rhus radicans</u>	Poison Ivy

Aquifoliaceae

<u>Ilex opaca</u>	American Holly
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Celastraceae

<u>Euonymus americanus</u>	Strawberry-bush
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Aceraceae

<u>Acer negundo</u>	Box Elder
<u>Acer rubrum</u>	Red Maple
<u>Acer saccharinum</u>	Silver Maple
<u>Acer saccharum</u>	Sugar Maple

Hippocastanaceae

<u>Aesculus glabra</u>	Ohio Buckeye
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Balsaminaceae

<u>Impatiens capensis</u>	Spotted Jewelweed
<u>Impatiens pallida</u>	Pale Jewelweed

Rhamnaceae

<u>Rhamnus caroliniana</u>	Carolina Buckthorn
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Vitaceae

<u>Parthenocissus quinquefolia</u>	Virginia Creeper
<u>Vitis aestivalis</u>	Summer Grape
<u>Vitis vulpina</u>	Frost Grape

Tiliaceae

* <u>Tilia americana</u>	American Basswood
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Malvaceae

* <u>Hibiscus spp.</u>	Hibiscus
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Violaceae

<u>Viola eriocarpa</u>	Smooth Yellow Violet
<u>Viola papilionacea</u>	Meadow Violet
<u>Viola striata</u>	White Violet

Passifloraceae

<u>Passiflora incarnata</u>	Passion-flower
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Elaeagnaceae

* <u>Elaeagnus angustifolia</u>	Russian Olive
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Onagraceae

<u>Oenothera biennis</u>	Evening Primrose
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Araliaceae

<u>Aralia spinosa</u>	Devil's Walking-stick
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Apiaceae

<u>Daucus carota</u>	Queen Anne's Lace
<u>Erigenia bulbosa</u>	Harbringer-of-spring
<u>Osmorhiza claytoni</u>	Hairy Sweet Cicely
<u>Pastinaca sativa</u>	Wild Parsnip
<u>Zizia trifoliata</u>	Golden Alexanders

Nyssaceae

<u>Nyssa sylvatica</u>	Black Gum
<u>Cornus florida</u>	Flowering Dogwood

Ericaceae

<u>Chimaphila maculata</u>	Striped Pipsissiwa
<u>Kalmia latifolia</u>	Mountain Laurel
<u>Monotropa uniflora</u>	Indiana Pipe

Primulaceae

<u>Dodocatheon meadia</u>	Shooting Star
<u>Lysimachia nummularia</u>	Moneywort

Ebenaceae

<u>Diospyros virginiana</u>	Persimmon
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Styracaceae

* <u>Halesia carolina</u>	Silverbell
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Oleaceae

<u>Fraxinus americana</u>	White Ash
<u>Fraxinus pennsylvanica</u>	Red Ash

Gentianaceae

Obolaria virginica Pennywort

Apocynaceae

Vinca minor Periwinkle

Asclepiadaceae

Asclepias quadrifolia Four-leaved Milkweed

Asclepias syriaca Common Milkweed

Asclepias tuberosa Butterfly Weed

Convulvulaceae

Convulvulus arvensis Bindweed

Ipomoea purpurea Common Morning-glory

Ipomoea hederacea Ivy-leaved Morning-glory

Polemoniaceae

Phlox divaricata Blue Phlox

Polemonium reptans Jacob's Ladder

Hydrophyllaceae

Hydrophyllum macrophyllum Large-leaf Waterleaf

Boraginaceae

Cynoglossum virginianum Wild Comfrey

Mertensia virginica Bluebells

Myosotis macrosperma White Forget-me-not

Verbenaceae

<u>Verbena simplex</u>	Narrow-leaved Vervian
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Lamiaceae

<u>Glechoma hederacea</u>	Ground Ivy
<u>Lamium aplexicaule</u>	Henbit
<u>Lamium purpureum</u>	Purple Dead-nettle
<u>Mentha spicata</u>	Spearmint
<u>Prunella vulgaris</u>	Heal-all

Solanaceae

<u>Datura stramonium</u>	Jimsonweed
<u>Physalis spp.</u>	Groundcherry
<u>Solanum carolinense</u>	Nightshade

Scrophulariaceae

<u>Paulownia tomentosa</u>	Royal Paulownia
<u>Pedicularis canadensis</u>	Wood-betony
<u>Penstemon hirsutus</u>	Hairy Beard-tongue
<u>Verbascum thapsus</u>	Wooly Mullein
<u>Veronica persica</u>	Bird's-eye Grass

Bignoniaceae

<u>Bignonia capreolata</u>	Cross-vine
<u>Campsis radicans</u>	Trumpet-vine
<u>Catalpa bignonioides</u>	Catalpa

Orobanchaceae

<u>Conopholis americana</u>	Cancer-root
<u>Epifagus virginiana</u>	Beech-drops

Acanthaceae

<u>Ruellia caroliniensis</u>	Hairy Ruellia
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Plantaginaceae

<u>Plantago aristata</u>	Bracted Plantain
<u>Plantago lanceolata</u>	English Plantain
<u>Plantago virginica</u>	Hoary Plantain

Rubiaceae

<u>Galium aparine</u>	Bedstraw
<u>Houstonia caerulea</u>	Bluets
<u>Houstonia pupurea</u>	Large Houstonia
<u>Mitchella repens</u>	Partridge-berry

Caprifoliaceae

<u>Lonicera japonica</u>	Japanese Honeysuckle
<u>Sambucus canadensis</u>	Elderberry
<u>Symphiocarpos orbiculatus</u>	Coralberry
<u>Viburnum rufidulum</u>	Southern Black-haw

Campanulaceae

<u>Lobelia siphilitica</u>	Great Blue Lobelia
<u>Triodanis perfoliata</u>	Venus Looking Glass

Asteraceae

<u>Achillea millefolium</u>	Yarrow; Milfoil
<u>Ambrosia artemisiifolia</u>	Ragweed
<u>Antennaria plantaginifolia</u>	Pussytoes
<u>Aster lateriflorus</u>	Calico Aster
<u>Aster pilosus</u>	Frost-weed Aster
<u>Bidens polyopsis</u>	Tickseed Sunflower
<u>Carduus nutans</u>	Nodding Thistle
<u>Chrysanthemum leucanthemum</u>	Ox-eye Daisy
<u>Chichorium intybus</u>	Chickory
<u>Cirsium discolor</u>	Field Thistle
<u>Erigeron annuus</u>	White-top Fleabane
<u>Erigeron philadelphicus</u>	Philadelphia Fleabane
<u>Eupatorium coelestinum</u>	Mistflower
<u>Eupatorium fistulosum</u>	Joe-pye Weed
<u>Eupatorium perfoliatum</u>	Bone-set
* <u>Helianthus annuus</u>	Sunflower
<u>Lactuca canadensis</u>	Prickly Lettuce
<u>Polymnia uvedalia</u>	Yellow Leaf-cup
<u>Prenanthes altissima</u>	Rattlesnake Root
<u>Rudbeckia hirta</u>	Black-eyed Susan
<u>Senecio obovatus</u>	Ragwort
<u>Senecio smallii</u>	Ragwort
<u>Solidago altissima</u>	Tall Goldenrod

PLANTAE (con.)

Solidago caesia

Wreath Goldenrod

Solidago juncea

Early Goldenrod

Taraxacum officinale

Dandelion

Veronia altissima

Ironweed

Xanthium strumarium

Cockleburr

FUNGI

DIVISION GYMNOMYCOTA

Class Myxomycetes

Arcyria spp.

Ceratiomyxa fruticulosa

Fuligo septica

Hemitrichia spp.

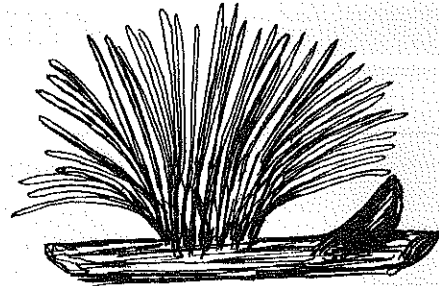
Lycogala epidendrum

Physarum cinereum

Physarum polycephalum

Stemonitis virginiensis

Trichia spp.



DIVISION AMASTIGOMYCOTA

Class Ascomycetes

Cordyceps spp.

Daldinia concentrica

Elsinoe corni

Erysiphe cichoracearum

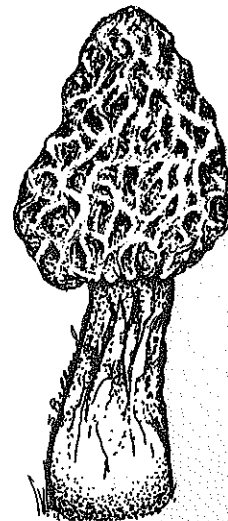
Erysiphe polygoni

Hypomyces spp.

Microsphaera alni

Scutellinia scutellata

Venturia inaequalis



Class Basidiomycetes

Boletus spp.

Calocera cornea

Clavaria cristata

Clavaria stricta

Collybia spp.

Coprinus comatus

Crucibulum laeve

Cyathus striatus

Dacryopinax spathularia

Daedalea spp.

Fomes igniarins

Fomes spp.

Ganoderma applanatum

Ganoderma lucidum

Gymnosporangium juniperi-virginianae

Hydnum spp.

Hygrophorus spp.

Hypoxylon spp.

Kunkelia nitens

Lactarius spp.

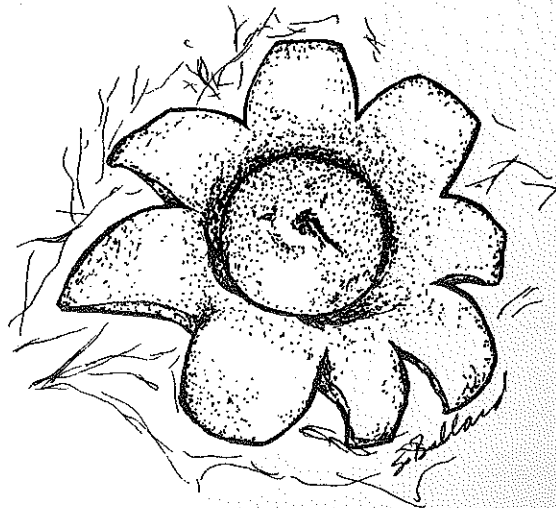
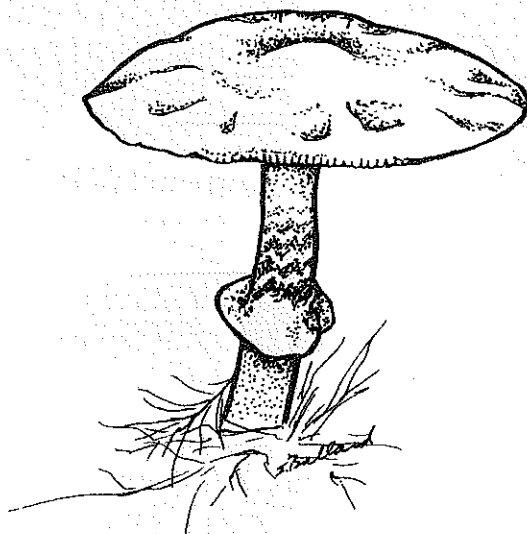
Lycoperdon perlatum

Lycoperdon pyriforme

Marasmius spp.

Morchella spp.

Pleurotus ostreatus



Pluteus cervinus

Polyporus versicolor

Polyporus spp.

Poria spp.

Russula spp.

Schizophyllum commune

Stereum frustulatum

Stereum versicolor

Tremella fuciformis

Uromyces caladii