

From Abbeville to Yemassee

SCAnning South Carolina's Natural History



From Abbeville to Yemassee

SCANning South Carolina's Natural History

SCAN: The Second Ten Years
January 1986 - December 1995



Published by the
South Carolina Association of Naturalists
Columbia, South Carolina
1999

Suggested cataloging data:

From Abbeville to Yemassee : SCANNing South Carolina's natural history : SCAN, the second ten years, January 1986-December 1995. — Columbia, S.C. : South Carolina Association of Naturalists, 1999.

xiv, 378 p. : ill. ; 28 cm.

Contains field trip reports and species lists.

Bibliography: p. 250-253.

Includes index.

1. South Carolina Association of Naturalists.
2. Natural history — South Carolina.
3. South Carolina — Description.
1. South Carolina Association of Naturalists.

QH105.S6S58 1999

577.09575 — ddc21

ISBN 0-9673974-0-5

©1999 South Carolina Association of Naturalists (SCAN)

All rights reserved. No part of this work may be reproduced or used in any form or by any means — graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems — without the express written permission of the South Carolina Association of Naturalists.

Published by:

South Carolina Association of Naturalists (SCAN)
Post Office Box 5651
Columbia, South Carolina 29250-5651

Printed and bound in the United States of America by:

Image Printing, Inc.
Dave Baker, owner
10 Commerce Alley
Camden, South Carolina 29020
Telephone: 803-424-0508

Book Committee:

Virginia E. Winn — Committee chairman, book editor, layout/design artist, digital imaging, photographer
Lynn B. Smith — Writer, photographic editor, photographer, proofreader
Dee Hope — Copy editor, proofreader
Janet C. Ciegler — Graphic artist, writer, proofreader
Kenneth A. Boni — Proofreader

The committee would like to thank the following for their assistance:

Robert Skinder — Technical assistance with indexing
Sara Lee Simons — Technical advice, photographer
Jennifer Moss — Common name index
Randall L. Miller — Scientific name index designer
Michele James — Common name index, ISBN, copyright information
Heidi Hoerman — Indexing coordinator, common name index, cataloging information
Lynn Greenlee — Photographer
Betty Gilbert (deceased) — Photographer
Randy Emmitt — Digital imaging, photographer
Jill Chappelle-Fail — Technical assistance with software
Alex Ciegler — Photographer
Fran Beals — Photographer

Front Cover Photographs:

Milkweed, *Asclepias* sp. (Photo by A. Ciegler); Jan Ciegler, Lynn Smith, Mary Garland Douglass, Gary Sowell, and Patty Shrum take to the water at Savage Bay, Kershaw County, Sandhills region (Photo by L. Greenlee); Wild onion, *Allium* sp. (Photo by A. Ciegler).

Back Cover Photographs:

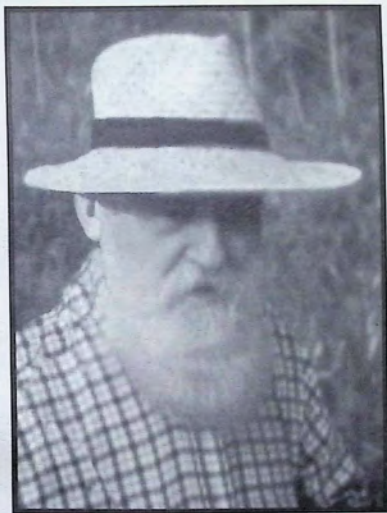
Immature red-shouldered hawk, *Buteo lineatus* (Photo by R. Emmitt); Water lily, *Nymphaea odorata* (Photo by A. Ciegler); Pandora sphinx moth larva, *Eumorphia pandorus* (Photo by L. Greenlee).

Title Page Photograph:

Sphinx moth larva covered with braconid wasp cocoons, *Ipanteles* sp. (Photo by L. Greenlee).

Dedication Photograph:

Samuel Langford Outen, digitally retouched by Winn & Winn Photographic Restoration. (Photo by V. Winn).



This Book is Dedicated to

Samuel Langford Outen

March 6, 1927 - March 4, 1997
Our Beloved Friend and Benefactor

Acknowledgements

As chairman, I would first like to thank the other members of the book committee for all their assistance. They were Kenneth A. Boni, Janet C. Ciegler, Dee Hope, and Lynn B. Smith. As chairman, I was responsible for the administrative details plus doing the layout for the book. Without the other members, I would not have had a book to lay out.

Lynn and Jan coordinated the individual site write-ups and directions. Lynn did the site write-ups, while Jan wrote the directions and drew all the directional maps. On several occasions Jan or Lynn would actually return to the location to obtain correct current information. Now that's dedication!

Jan also supplied all the up-dated flora/fauna lists. I certainly appreciated her patience with all the needed changes.

Without Lynn I never could have sorted through the many slides that now enhance the book. As we progressed, she would "remember" we had a particular slide for the space under discussion and simply zip right to the perfect photo.

Lynn was also particularly helpful in writing up the "Science & Nature Notes". If they were not already available from one of our newsletters she would write-up whatever I needed.

Dee was the primary proofreader. He must have read the book at least four times. Having an English major on the committee certainly does help, especially when the chairman is known for her creative spelling and typing. Lynn and Jan also helped proofreading. Ken was responsible for the last major proofreading which was certainly a challenge.

During a committee meeting at about the halfway point, we decided to do a major update on the common names. Everyone jumped right in. Dee tackled the flora, Jan and Lynn the fauna, and Ken the fungi. The book was then re-layed out with the new information. I can only say thank you for what I know were some really late nights.

Thanks are also due Heidi Hoerman and her students Randall L. Miller, Michele M. James and Jennifer Moss. Heidi is an instructor in the College of Library and Information Science Department of the University of South Carolina and a SCAN member. As a project for her students in her indexing class, she agreed for them to take on the major challenge of indexing this book, and obtaining the ISBN, copyright, and Library of Congress cataloging information. She wanted her students to have a "real life experience". Believe me, we could not have agreed more. Jill Chappelle-Fail, assistant technology coordinator in the same department, helped the students with software requirements.

Randy designed the scientific name index and wrote the plotting programs. Robert Skinder, librarian at the University of South Carolina, assisted Randy in conceptualizing the design. Heidi, Michele and Jennifer handled the common name index, while Michele also took care of the ISBN and copyright information.

We would like to thank Image Printing and its owner, Dave Baker, in Camden, SC for helping us provide the book in a format that allowed us to include large numbers of photographs for little additional expense. Thanks for allowing us to "go wild".

Of course we couldn't go wild without photographs. Those who provided slides are SCAN members Alex Ciegler, Randy Emmitt, Lynn Greenlee, Sara Lee Simons, Lynn Smith, Betty Gilbert (now deceased, sadly) and myself. Choosing among those submitted was difficult. Lynn Smith and I chose on the basis of composition and exposure for reproduction, as many of us had similar photographs of the same subject, a hazard of all attending the same field trips. Occasionally, it was necessary to use a photograph from a different site or season to show the main subject effectively.

I am most grateful to Randy Emmitt for agreeing to digitize all the slides and photographs for inclusion in the book. Randy is a nature photographer living in North Carolina, offering scanning services as well as selling his photos via the web. His work is excellent and I encourage everyone to check out his website at <http://www.naturevision.com> and enjoy browsing. As a result of his scanning our slides, Randy is now a member of SCAN. Scanning our slides is a project I certainly appreciate and it made my job much easier.

There are two additional SCAN members who need to be thanked. Sara Lee Simons gave me much needed guidance when we first began this project. I had many questions about the first book that she graciously answered. Although the committee decided to use photographs instead of drawings, I would like to thank Anna K. Singley for submitting a cover design as well as allowing us to re-use the illustrations from the first book, had we so chosen. That support was greatly appreciated.

Lastly, I would like to acknowledge our benefactor, Sam Outen. Without his forethought we would not have had the necessary money to produce this book. Here's to you, Sam!

Virginia Winn,
Book Committee Chairman

20 Years of Leadership 1976 - 1995



(Photo by L. Greenlee)

Presidents of SCAN

**Charles Lewis, Danny Smith, Jan Ciegler, Lynn Smith, Virginia Winn,
Ted Cottingham, Alex Ciegler (center front), Rudy Mancke (our founder and
longest running patriarch), Bill Carter, and Lynn Greenlee**

The South Carolina Association of Naturalists, or SCAN as we are most often called, was formed in 1976 and is still a viable organization over 20 years later. We are composed of a wide and diverse membership with many varied interests, but most of all we are people who have an amateur or professional interest in the natural history of South Carolina.

SCAN publishes a monthly newsletter announcing the upcoming field trip with all pertinent information. Since one of our main objectives is to share factual natural history information, the newsletter contains a list of the plants (flora) and animals (fauna) we saw on the previous field trip. Other information of interest to naturalists is often included in these newsletters.

SCAN maintains a web site where the public can obtain field trip and membership information. Please visit us at <http://members.aol.com/LynnBSmith/scan>.

SCAN has at least one outdoor field trip per month between February and December. We always meet on the 4th Saturday of the month, except in November (3rd Saturday) and December (2nd Saturday). Members meet at the field trip site promptly at 10:30 am, unless otherwise stated in the newsletter, and then the fun begins.

SCAN members must be 18 years of age or older. However, because we feel that it is important to get children involved in environmental stewardship, SCAN tries to organize two special trips a year on which the members may bring their children.

SCAN's membership runs on a calendar year from January to December, with yearly dues payable at our only indoor meeting of the year, the annual business meeting, which is always held in January. If you would like to learn more about membership visit our web site or write us at:

South Carolina Association of Naturalists
Post Office Box 5651
Columbia, South Carolina 29250-5651
<http://members.aol.com/LynnBSmith/scan>



South Carolina Association of Naturalists

Post Office Box 5651, Columbia, South Carolina 29250-5651

Dear Reader,

Although a relatively small state, South Carolina has been blessed with an almost unbelievable variety of natural wealth. And, like so much wealth of a more materialistic nature, these riches were not always obvious to many of our state's inhabitants.

Therefore, over twenty years ago, the South Carolina Association of Naturalists (SCAN) was formed with the purpose of documenting these treasures and, in the process, providing a learning and enriching experience to its members and to the public. Membership was not restricted to those already knowledgeable in the various fields of natural science but was open to all who shared this interest, amateur and professional, neophyte and expert, alike. Their initial efforts were documented in a book covering the first ten years of the group's existence.

The gathering and compilation of this information provided SCAN members with an unexpected perspective on what many regard as the mysticism of life — beauty, mystery, the wonders of revealed simplicity and complexity — an ever shifting and changing kaleidoscope of nature's gifts. And there was the added bonus of fellowship that can only be shared by those pursuing like interests.

But the years continued to pass, another of Nature's inexplicables, and, like any organization, SCAN's membership waxed and waned. Yet progress continued on what many began to regard as the pursuit of Nature's 'Holy Grail'. The current book now documents the second ten years of SCAN's endeavors, yet its members know that, as from cornucopia, the wealth being poured out can never be fully absorbed, only appreciated in its vastness.

It is with considerable pleasure that I applaud the efforts of the small book committee that led to the production of this book. They should be proud of their contribution and of the contributions of the SCAN members who shared in this endeavor. And still the effort goes on, a joyful search and documentation of nature's mysteries. As at its conception, SCAN welcomes the participation of all citizens of South Carolina and, yes, interested citizens of its neighboring states, to its wanderings and wonderings.

Dee Hope
President, SCAN (1999)

Table of Contents

Introduction	1
--------------------	---



Sites in South Carolina by County

Abbeville County	
Parson's Mountain Lake Recreation Area (Sumter National Forest)	3
Aiken County	
Aiken State Park	5
Savannah River Bluffs Heritage Preserve	7
Savannah River Site	10
Silver Bluff Audubon Preserve	12
Allendale County	
Chert Quarry	15
Anderson County	
Beaverdam Creek Wildlife Management Area and Simpson Agricultural Experimental Station	16
Bamberg County	
Cathedral Bay Heritage Preserve	18
Rivers Bridge State Park	19
Barnwell County	
Barnwell State Park	20
Beaufort County	
Hunting Island State Park	22
Pinckney Island National Wildlife Refuge	25
Spring Island	26
Victoria Bluff Heritage Preserve	29
Berkeley County	
Francis Marion National Forest (Honey Hill Lime Sinks)	31
Lake Marion (Bird Island area)	33
Old Santee Canal State Park	34
Charleston County	
Beaches of Edisto Island (Edingsville Beach, Botany Bay Island, and Edisto State Park)	38
Bull Island	41
Santee River Delta (The Wedge, Washo Reserve, and Santee Coastal Wildlife Management Area)	44
St. Christopher Camp & Conference Center	47
Cherokee County	
Old Cherokee Ironworks and Silver Mine Ridge	50

Chester County	
Landsford Canal State Park	52
Woods Ferry Recreation Area (Sumter National Forest)	54
Chesterfield County	
Carolina Sandhills National Wildlife Refuge and Sandhills State Forest	58
Cheraw Fish Hatchery, Cheraw State Park and Sugarloaf Mountain	61
Clarendon County	
Bennetts Bay Heritage Preserve	62
Santee National Wildlife Refuge	64
Colleton County	
Ashepoo River (Canoe Trip) (ACE Basin)	65
Bear Island Wildlife Management Area (ACE Basin)	67
Donnelley Wildlife Management Area (ACE Basin)	69
Edisto River Canoe Trail (ACE Basin)	71
Westvaco Bluff Trail (ACE Basin)	72
Darlington County	
Dargan's Pond and Sara Simons' Place	74
Kalmia Gardens of Coker College & Segars Heritage Preserve	75
Williamson Park and Woods Dargan	78
Dillon County	
Little Pee Dee State Park	80
Dorchester County	
Giant Portland Cement Quarry	82
McAlhany Nature Preserve	83
Fairfield County	
Broad River Waterfowl Area	85
Florence County	
Burches Ferry	87
Lynches River State Park	88
Georgetown County	
Huntington Beach State Park and Brookgreen Gardens	90
Greenville County	
Bunched Arrowhead Heritage Preserve	93
Caesars Head State Park	95
Eva Russell Chandler Heritage Preserve	97
Jones Gap State Park	99
Roper Mountain Science Center	101
Wildcat Wayside	102
Greenwood County	
Ninety Six National Historic Site	103

Hampton County	
Lake Warren State Park	105
Webb Wildlife Center	107
Horry County	
Cartwheel Bay Heritage Preserve	108
Ervin Dargan Heritage Preserve and Little Pee Dee River Heritage Preserve	110
Lewis Ocean Bay Heritage Preserve	112
Playcard Environmental Education Center	114
Southern Aggregate Coquina Mine	117
Jasper County	
Savannah National Wildlife Refuge	118
Tillman Sand Ridge Heritage Preserve	119
Kershaw County	
Boykin Mill Pond	120
Goodale State Park	122
Savage Bay Heritage Preserve	124
Lancaster County	
Flat Creek Heritage Preserve	126
Laurens County	
Enoree River Site (Sumter National Forest)	131
Lee County	
Lee State Park	133
Lynchburg Savanna Heritage Preserve	135
Mt. Pleasant Church Bay Heritage Preserve	138
Lexington County	
Lake Murray Spillway	140
Peachtree Rock Heritage Preserve	141
Marlboro County	
Lake Wallace and Pledger Creek	142
McCormick County	
John de la Howe School	145
Stevens Creek Heritage Preserve	147
Newberry County	
Molly's Rock Recreation Area (Sumter National Forest)	149
Oconee County	
Brasstown Falls	151
Burrells Ford, King Creek Falls and Cherry Hill Campground (Sumter National Forest)	153
Buzzards Roost Heritage Preserve	156
Coon Branch Trail and Lower Whitewater Falls Overlook Trail	158
Devils Fork State Park	161
Station Falls (Oconee State Park)	164

Orangeburg County	
Santee Sinkholes and Santee State Park	166
Pickens County	
Eastatoe Creek Heritage Preserve	168
Glassy Mountain Heritage Preserve	170
Keowee-Toxaway State Park	173
Table Rock State Park	175
Richland County	
Congaree Swamp National Monument	176
Cooks Mountain	179
Pete's Place	180
Spartanburg County	
Croft State Park	182
Pacolet River Heritage Preserve (Soapstone Ridge)	185
Walnut Grove Plantation	187
Sumter County	
Milford Plantation	189
Poinsett State Park	190
Woods Bay State Park	192
Union County	
Tyger River at Sparks Creek (Sumter National Forest)	194
York County	
Broad River near Hickory Grove	196
Kings Mountain State Park	197



(Photo by V. Wine)

SCAN members never stay together. Woods Dargan, Darlington County, Sandhills region.



(Photo by A. Ciegler)

SCAN members enjoy a day on the Ashepoo River, Colleton County, Atlantic Coast Flatwoods region. Jan Ciegler (center) looks for beetles even when paddling.



Sites in Georgia by County

Columbia County	
Heggie's Rock	199
Rabun County	
Black Rock Mountain State Park	201



Sites in North Carolina by County

Beaufort County	
Texasgulf Lee Creek Phosphate Mine	204
Macon County	
Standing Indian Area (Nantahala National Forest)	205
Polk County	
Pearson's Falls and Big Bradley Falls	207
Transylvania County	
Charlie's Acres	209
Horse Pasture River	211
John Rock, Black Balsam Knob and Cradle of Forestry (Pisgah Ranger District, Pisgah National Forest) ..	213



Alphabetically by Site

Aiken State Park	5
Ashepoo River	65
Barnwell State Park	20
Beaches of Edisto Island	38
Bear Island Wildlife Management Area	67
Beaverdam Creek Wildlife Management Area	16
Bennetts Bay Heritage Preserve	62
Big Bradley Falls (NC)	207
Bird Island Area	33
Black Balsam Knob (NC)	213
Black Rock Mountain State Park (GA)	201
Botany Bay Island	38
Boykin Mill Pond	120
Brasstown Falls	151
Broad River near Hickory Grove	196

Broad River Waterfowl Area	85
Brookgreen Gardens	90
Bull Island	41
Bunched Arrowhead Heritage Preserve	93
Burches Ferry	87
Burrells Ford	153
Buzzards Roost Heritage Preserve	156
Caesars Head State Park	95
Carolina Sandhills National Wildlife Refuge	58
Cartwheel Bay Heritage Preserve	108
Cathedral Bay Heritage Preserve	18
Charlie's Acres (NC)	209
Cheraw Fish Hatchery	61
Cheraw State Park	61
Cherry Hill Campground	153
Chert Quarry	15
Congaree Swamp National Monument	176
Cooks Mountain	179
Coon Branch Trail	158
Cradle of Forestry (NC)	213
Croft State Park	182
Dargan's Pond	74
Devils Fork State Park	161
Donnelley Wildlife Management Area	69
Eastatoe Creek Heritage Preserve	168
Edingsville Beach	38
Edisto River Canoe Trail	71
Edisto Beach State Park	38
Enoree River Site	131
Ervin Dargan Heritage Preserve	110
Eva Russell Chandler Heritage Preserve	97
Flat Creek Heritage Preserve	126
Francis Marion National Forest	31
Giant Portland Cement Quarry	82
Glassy Mountain Heritage Preserve	170
Goodale State Park	122
Heggie's Rock (GA)	199
Honey Hill Lime Sinks	31
Horse Pasture River	211
Hunting Island State Park	22
Huntington Beach State Park	90
John de la Howe School	145
John Rock (NC)	213
Jones Gap State Park	99

Kalmia Gardens of Coker College.....	75
Keowee-Toxaway State Park	173
King Creek Falls	153
Kings Mountain State Park.....	197
Lake Marion	33
Lake Murray Spillway	140
Lake Wallace.....	142
Lake Warren State Park	105
Landsford Canal State Park	52
Lee State Park	133
Lewis Ocean Bay Heritage Preserve	112
Little Pee Dee River Heritage Preserve	110
Little Pee Dee State Park	80
Lower Whitewater Falls Overlook Trail	158
Lynchies River State Park.....	88
Lynchburg Savanna Heritage Preserve	135
McAlhany Nature Preserve.....	83
Milford Plantation	189
Molly's Rock Recreation Area	149
Mt. Pleasant Church Bay Heritage Preserve	138
Ninety Six National Historic Site	103
Old Cherokee Ironworks	50
Old Santee Canal State Park	34
Pacolet River Heritage Preserve	185
Parson's Mountain Lake Recreation Area	3
Peachtree Rock Heritage Preserve	141
Pearson's Falls (NC)	207
Pete's Place	180
Pinckney Island National Wildlife Refuge	25
Playcard Environmental Education Center	114
Pledger Creek	142
Poinsett State Park	190
Rivers Bridge State Park	19
Roper Mountain Science Center	101
Sandhills State Forest	58
Santee National Wildlife Refuge	64
Santee Coastal Wildlife Management Area	44
Santee River Delta	44
Santee Sinkholes	166
Santee State Park	166
Sara Simons' Place	74
Savage Bay Heritage Preserve	124
Savannah National Wildlife Refuge	118
Savannah River Bluffs Heritage Preserve	7
Savannah River Site	10
Segars Heritage Preserve	75
Silver Bluff Audubon Preserve	12

Silver Mine Ridge	50
Simpson Agricultural Experimental Station	16
Soapstone Ridge	185
Southern Aggregate Coquina Mine	117
Spring Island	26
St. Christopher Camp & Conference Center	47
Standing Indian Area (NC)	205
Station Falls	164
Stevens Creek Heritage Preserve	147
Sugarloaf Mountain	61
Table Rock State Park	175
Texasgulf Lee Creek Phosphate Mine (NC)	204
The Wedge	44
Tillman Sand Ridge Heritage Preserve	119
Tyger River at Sparks Creek	194
Victoria Bluff Heritage Preserve	29
Walnut Grove Plantation	187
Washo Reserve	44
Webb Wildlife Center	107
Westvaco Bluff Trail	72
Wildcat Wayside	102
Williamson Park	78
Woods Bay State Park	192
Woods Dargan	78
Woods Ferry Recreation Area	54



Science and Nature Notes

Hairy Flower Bees	34
Comb Jellyfishes	47
The Sandhills	57
The Appalachian Mountains	95
Monadnocks	171
Water Erosion	217
Carnivorous Plants	234
Carolina Bays	235



Photographic Gallery	216
Natural History Organizations	248
Reference Materials	250
Common Name List	255
Scientific Name Index	283

Membership Applications
are located at the end of the book.

Introduction

Welcome to SCAN's second book. We hope you will find the information and photographs we have included to be useful and enjoyable. If you are familiar with the first book, *South Carolina Association of Naturalists: The First Ten Years*, you will find this book organized in a different manner to make it useful both to members and non-members. The counties, in alphabetical order, are used to organize the descriptions of the sites of SCAN field trips and corresponding flora and fauna lists from the second ten years. As with all the flora and fauna lists SCAN produces, these were created through the contributions of members who were willing to keep a list of what they saw on the trip that day. The expertise of these contributors is mostly "advanced amateur" but a lot of gracious help came from professionals. SCAN members include people with a wide range of interests and areas of expertise; all the expert observations were combined to make one list per trip. It is definitely a case of the sum being greater than the individual parts. While we did our best we admit there may be a few cases of mistaken identity on these pages.

This book may be useful to readers in several ways. SCAN members can use it for reminiscing about trips they remember with fondness. Other readers may well find, from the descriptions, sites that are nearby or of special interest and can use the directions and map to visit the site personally. If you are near a site and in a similar habitat, the flora and fauna list will give a good idea about what you might be seeing. Persons with a particular interest can select sites that have had similar species observed. Remember that the time of year and current weather conditions will strongly affect the actual species observed.

To aid in finding sites containing habitats in which the reader is interested, a map of South Carolina's physiographic regions is also included. These regions are based on communities of flora and fauna found there rather than exact geologic boundaries. The following descriptions start in the mountains and proceed to the sea.

The Blue Ridge is the area of highest altitude exhibiting montane plants and animals. Two South Carolina sites that exemplify these communities are Caesars Head State Park in Greenville County and the Coon Branch and Lower Whitewater Falls trails in Oconee County.

The largest region is the **Southern Piedmont** covering from the immediate foothills of the mountains to the fall line which is the geologic boundary of the coastal plain. This area features soils with a high amount of clay and is easily eroded. Most of this region has been farmed in the past, often with poor conservation practices, increasing the amount of erosion. Rare is the location with forests older than 60 to 70 years. Typical examples of this region are found at Croft State Park in Spartanburg County, Kings Mountain State Park in York County and the various recreation areas in Sumter National Forest that are not in Oconee County. Unique geologic features found scattered along the region are the granite monadnocks and outcrops; Kings Mountain in York County and Glassy Mountain in Pickens County are monadnocks. Forty Acre Rock, part of Flat Creek Heritage Preserve, is a granite outcrop with solution pools on the surface and a very unique set of flora.

The fall line, where the rocks underlying the Piedmont end, coincides with sand dunes that mark the remains of an Eocene-aged ocean edge, thus creating the **Sandhills**. It is rolling and very sandy. Plants in this region must adapt to the lower water availability caused by soils of very low water-holding capacity. Soil temperatures are often very high in summer. Carolina Sandhills National Wildlife Refuge and Cheraw State Park in Chesterfield County and Goodale State Park in Kershaw County provide classic examples of the region.

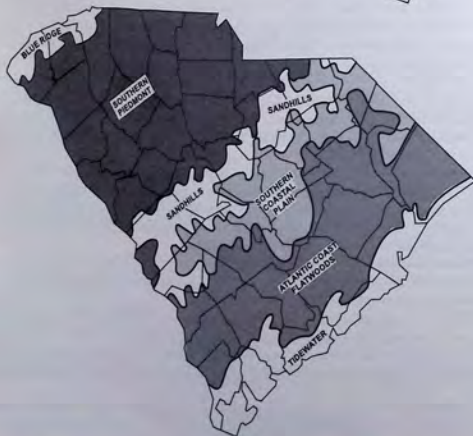
Just below the fall line and the Sandhills lies the **Southern Coastal Plain**. It is usually gently rolling with adequate moisture for abundant plant growth. It has the basic conditions for good agricultural lands. Poinsett State Park in Sumter County gives a good look at the variety available in this region.

Atlantic Coast Flatwoods encompasses the large low area that acts as the outer coastal plain. Much of the land is poorly drained providing many swamps and the special geologic feature known as the Carolina Bay. Francis Marion National Forest west of US 17 is mostly classic flatwoods. Cartwheel Bay and Lewis Ocean Bay heritage preserves in Horry County have both flatwoods and bay habitats. Woods Bay in Sumter County is a well-preserved deep water Carolina Bay.

The junction of the mainland and the Atlantic Ocean gives the physiographic region known as **Tidewater**. The water level varies daily from the rise and fall of the tides but is also affected by the amount of rainfall in the higher

areas of the state. This area is generally located east of US 17 throughout the length of the state. South Carolina is blessed with several state parks that give easy access to beaches, marsh, and maritime forests. Hunting Island in Beaufort County, Edisto Beach in Colleton County, and Huntington Beach in Georgetown County are all very rewarding state parks to visit.

SCAN's philosophy is one of learning by seeing and experiencing. Reading about these sites will get you started, but you will have the most fun and gain the most knowledge by using the information in the book or SCAN's first book to prepare yourself for a pleasant day "in the field". The generosity and foresight of Sara Lee Simons to enable the publishing of the first ten years of data and of Sam Outen to allow the continuation of the data publication is generosity of the highest order.





Abbeville County

Parson's Mountain Lake Recreation Area

(Sumter National Forest)

Abbeville County

July 23, 1994

Parson's Mountain is a low monadnock in the western piedmont. It is an area of usually hot humid July weather, but this day it was cloudy and still in the low 80's in the early afternoon. This may account for the listings of a diverse nature. One plant highlight was the American chestnut on one side of the trail immediately opposite a chinquapin. Another American chestnut was loaded with nuts. Mushrooms also thrived in the warm humid weather that preceded the trip.

One of the most exciting aspects of the day was the interesting variety of reptiles and amphibians encountered. While examining a mysterious egg that was deposited on a log, the smallest ringnecked snake observed by anyone in the group was discovered. Under the bark of another log, a female five-lined skink was guarding her eggs. Picking the eggs up in her mouth, she slowly rearranged them in a less exposed position. Female skinks often protect their eggs during incubation. During the course of the day, newly-hatched ground skinks and fence lizards were spotted.

Don't miss the view from the top of the forestry tower if it is open when you visit.

Directions to Parson's Mountain Lake Recreation Area: Southwest of Abbeville, drive south on SC 28 about 2 miles beyond the intersection with SC 72 to Rock Buffalo Church. Turn left at the church onto S 1-251 and go southeast 1.5 miles; turn right at the sign to the Parson's Mountain Lake Recreation Area and drive to the parking lot at the end of the road.



FLORA

Lichen

Pertusaria texana
Pertusaria multipunctoides
Lecanora varia
Phlyctidia ludoviciana
Phlyctidia willeyi
Bulbothrix goebeli
Hypotrachyna livida
Parmelina aurulenta
Parmelina galbina
Parmelina horrescens
Parmelina minarum
Parmotrema hypotropium
Parmotrema michauxianum
Parmotrema perforatum
Xanthoparmelia tasmanica
Flavoparmelia baltinorensis

Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Usnea strigosa
Anaptychia palmatula
Buellia stellulata
Buellia punctata
Buellia curatellae
Physcia americana
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Broad Beech-Fern
Thelypteris hexagonoptera

Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
Spike Grass
Uniola sessiliflora
River Oats
Uniola latifolia
Wild Rye Grass
Elymus virginicus

Johnson Grass
Sorghum halepense
Nut-rush
Scleria oligantha
Fringed Greenbrier
Smilax bona-nos
Sawbrier; Greenbrier
Smilax glauca
Fly-poison
Amiantum muscaetoxicum
Yellow Star-grass
Hypoxis hirsuta
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Shagbark Hickory
Carya ovata

Parson's Mountain Lake Recreation Area (continued)
July 23, 1994

Pale Hickory
Carya pallida
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
Tag Alder
Alnus serrulata
Hop-hornbeam
Ostrya virginiana
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
American Chestnut
Castanea dentata
Allegheny Chinquapin
Castanea pumila
White Oak
Quercus alba
Post Oak
Quercus stellata
Red Oak
Quercus rubra
Black Oak
Quercus velutina
Scarlet Oak
Quercus coccinea
Southern Red Oak; Spanish Oak
Quercus falcata falcata
Black Jack Oak
Quercus marilandica
Willow Oak
Quercus phellos
Winged Elm
Ulmus alata
Red Mulberry
Morus rubra
Virginia Snakeroot
Aristolochia serpentaria
Heartleaf
Hexastylis arifolia
Black Cohosh
Cimicifuga racemosa
Liverleaf
Hepatica americana
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia tripetala
Cucumber-tree
Magnolia acuminata
Dwarf Paw-Paw
Asimina parviflora
Sweet-shrub; Carolina-allspice
Calyceanthus floridus
Sassafras
Sassafras albidum
Bloodroot
Sanguinaria canadensis
Alumroot
Heuchera americana
Sweet-gum
Liquidambar styraciflua

Witch-hazel
Hamamelis virginiana
Blackberry; Brambles
Rubus sp.
Cocklebur
Agrimonia pubescens microcarpa
Hawthorn
Crataegus flabellata
Black Cherry; Wild Cherry
Prunus serotina
Redbud; Judas-tree
Cercis canadensis
Wild Sensitive-plant
Cassia nictitans
Wild Indigo
Baptisia sp.
Leadplant
Amorpha herbacea
Pencil-flower
Syllanthus biflora
Naked-flower Tick-trefoil
Desmodium nudiflorum
Dollarleaf
Desmodium rotundifolium
Bristly Locust
Robinia hispida
Tephrosia
Tephrosia spicata
Climbing Butterfly-pea
Centrosema virginianum
Flowering Spurge
Euphorbia corollata
Prostrate Spurge
Euphorbia supina
Poison-ivy
Rhus radicans
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
Smooth Sumac
Rhus glabra
American Holly
Ilex opaca
Hearts-a'-burstin'-with-love
Eustoma americanus
Red Maple
Acer rubrum
Southern Sugar Maple
Acer saccharum floridanum
New Jersey-tea
Ceanothus americanus
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Ballace
Vitis rotundifolia
Basswood; Linden
Tilia americana
St.-Andrew's-cross
Hypericum hypericoides
St.-John's-wort
Hypericum matthium
Bird-foot Violet
Viola pedata

Primrose-leaved Violet
Viola primulifolia
Passionflower; Maypops
Passiflora incarnata
Russian-olive
Elaeagnus umbellata
English Ivy
Hedera helix
Black Snakeroot
Sanicula marilandica
Snakeroot; Sanicle
Sanicula smallii
Queen Anne's-lace; Wild Carrot
Daucus carota
American Carrot
Daucus pusillus
Meadow Parsnip
Thaspium barbinode
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Pine-sap
Monotropa hypopithys
Azalea
Rhododendron sp.
Sourwood
Oxydendrum arboreum
Trailing-arbutus
Epigaea repens
Sparkleberry
Vaccinium arboreum
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Low-bush Blueberry
Vaccinium vacillans
Whorled Loosestrife
Lysimachia quadrifolia
Persimmon
Diospyros virginiana
Carolina Silverbell
Halesia carolina
Bigleaf Snowbell
Styrax grandifolia
Yellow Jessamine
Gelsemium sempervirens
Polypremum
Polypremum procumbens
Indian-hemp
Apocynum cannabinum
Milkweed
Asclepias sp.
Angle-pod
Matelaea sp.
Phlox
Phlox carolina
Skullcap
Scutellaria elliptica
Carpenterweed
Prunella vulgaris
False Foxglove
Aureolaria pectinata
Downy False Foxglove
Aureolaria virginica

Trumpet Vine
Campsis radicans
Beech-drops
Epifagus virginiana
English Plantain
Plantago lanceolata
Button-bush
Cephalanthus occidentalis
Poor-Jo (or Po-Jo)
Diodia teres
Partridge-berry
Mitchella repens
Bedstraw
Galium circaezans
Black-haw; Nanny-berry
Viburnum prunifolium
Prenanthes
Prenanthes sp.
Rattlesnake-weed
Hieracium venosum
Elephant's-foot
Elephantopus tomentosus
Eupatorium
Eupatorium sp.
Pussy-toes
Antennaria plantaginifolia
Goldenrod
Solidago sp.
Silphium
Silphium dentatum
Black-eyed-Susan
Rudbeckia hirta
Coreopsis
Coreopsis major
Witches'-butter
Tremella mesenterica
Cinnabar-red Chanterelle
Cantharellus cinnabarinus
Fiber-vase
Thelephora sp.
Varnish Shelf
Ganoderma curtisii
Turkey-tail
Trametes versicolor
Violet-toothed Polypore
Trichaptum bififormis
Common Scaber-stalk
Leccinum scabrum
Old-man-of-the-woods
Strobilomyces floccopus
Salmon Wax-cap
Hygrophorus pratensis
Peppery Milky
Lactarius piperatus
Voluminous-latex Milky
Lactarius volemus
Emetic Russula
Russula emetica
Fragile Russula
Russula fragilis
Variable Russula
Russula variata
Leaflike Oyster
Hohenbuehelia petaloides
Rounded Earhartstar
Geastrum saccatum

Elegant Stinkhorn
Mutinus elegans
Scrambled-egg Slime
Fuligo septica

FAUNA

Juxtaposed Forest Snail
Triodopsis justidens
Great Common Zonite (snail)
Mesomphix vulgaris
Almond Millipede
Signoria aberrans
White Micrathena (spider)
Micrathena mitrata
Orchard Spider
Leucauge venusta
Writing Spider
Argiope aurantia
Orb-weaver
Neoscona sp.
Arrowhead Spider
Verrucosa arenata
Scorpion
Centruroides vittatus
Short-winged Green Grasshopper
Dichromorpha viridis
Boll's Sand Grasshopper
Spharagemon bolli
Sand Grasshopper
Spharagemon cristatum
Spur-throated Grasshopper
Melanoplus sp.
Round-headed Katydid
Amblycorypha floridana
Fork-tailed Bush Katydid
Scudderella furcata
Shield-backed Katydid
Atlantiscus gibbosus
Field Cricket
Gryllus sp.

Witch Hazel Cone Gall (aphid)
Homaphys hamamelidis
Huckleberry Oak Gall (wasp)
Callirhytis laustrans
Thread-waisted Wasp
Ammophila sp.
Oak Blister Gall (midge)
Cinctocornia pustulata
Fruit Fly, Pomace Fly
Drosophila melanogaster
House Fly
Musca domestica
Eastern Pondhawk
Erythemis simplicicollis
Bar-winged Skimmer
Libellula axillata
Ebony Jewelwing
Calopteryx maculata
Blue-fronted Dancer Damselfly
Argia apicalis
Tiger Beetle
Cicindela unipunctata
Red-bellied Tiger Beetle
Cicindela rifiventris
Pedunculate Ground Beetle
Passimachus depressus
Woodland Ground Beetle
Evarthrus sp.
Notch-mouthed Ground Beetle
Dicaeolus dilutatus
Whirligig Beetle
Dineutus emarginatus
Obscure Rove Beetle
Gyrophenena corrugata
Gyrophenena dissimilis
Aetha pennsylvanica
Aetha flaviola
Aleochara sp.
Passalus; Bess-beetle
Popilius disjunctus

Hister-like Dung Beetle
Ateuchus histeroides
Japanese Beetle
Popillia japonica
Firefly; Lightning Beetle
Photinus pyralis
Tumbling Flower Beetle
Mordella melanaea
Sap-feeding Beetle
Pallodes sp.
Pleasing Fungus Beetle
Megalodacne heros
Triplax macra
Shining Leaf Beetle
Lema sayi
Flower Weevil
Aulobaris ibis
Pipevine Swallowtail
Battus philenor
Zebra Swallowtail
Euryides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Red Admiral
Vanesa atalanta rubria
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Carolina Satyr (butterfly)
Hermespychia sotyrius
Silver-spotted Skipper
Epargyreus clarus
Bream
Lepomis sp.
Fowler's Toad
Bufo woodhousei
Green Frog; Bronze Frog
Rana clamitans
Yellow-bellied Slider
Chrysemys scripta
Carolina Anole
Anolis carolinensis

Eastern Fence Lizard
Sceloporus undulatus
Five-lined or SE 5-lined Skink
Eumeces sp.
Ground Skink
Scincella lateralis
Black Racer
Coluber constrictor
Ringneck Snake
Diadophis punctatus
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Turkey Vulture
Cathartes aura
Chimney Swift
Chaetura pelagica
Red-bellied Woodpecker
Melanerpes carolinus
Pileated Woodpecker
Dryocopus pileatus
Acadian Flycatcher
Empidonax virens
Crow
Corvus sp.
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Red-eyed Vireo
Vireo olivaceus
Northern Cardinal
Cardinalis cardinalis
Eastern Meadowlark
Sturnella magna
Summer Tanager
Piranga rubra
Beaver (sign)
Castor canadensis
White-tailed Deer
Odocoileus virginianus



Aiken County

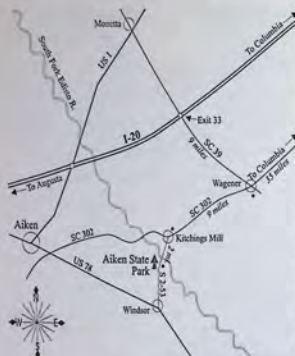
Aiken State Park

Aiken County

June 27, 1992

Hot, oppressive June rarely brings out the best in a site. Even so, the varied terrain of Aiken State Park was interesting. The park encompasses a sand ridge, man-made ponds, a floodplain, a bog and the bank of the Edisto River. The nature trail provided a sampling of each. Some of the less common specimens seen were hammocksweet azalea, loblolly-bay, and the comet damner dragonfly.

Directions to Aiken State Park: From Columbia, follow SC 302 through South Congaree and Pelion for 35 miles to Wagener; continue on SC 302 for 9 miles more to Kitchings Mill. Turn left onto S 2-53 and go 2 miles further, crossing the South Fork of the Edisto River. Park entrance is on the right.



Aiken State Park (continued)
June 27, 1992

FLORA

Lichen

Leptogium cyanescens
Graphis scripta
Graphis mosquiteralis
Graphis lineola
Graphis poliacroides
Graphis sp.
Bacidia schweinitzii
Leptogium austroamericanum
Lecidea ruscula
Cladonia subtenuis subtenuis
Cladonia subtenuis chierensis
Cladonia chlorophaea f. intermedia
Cladonia chlorophaea f. pterygota
Cladonia coniocraea f. phyllostrota
Cladonia coniocraea f. subpellucida
Cladonia cristatella vestita
Cladonia incrassata f. incrassata
Cladonia incrassata f. squamulosa
Cladonia leporina
Cladonia rei
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria trachythallina
Pertusaria subpertusa
Pertusaria tetraethalata
Pertusaria sinuata
Haematomma puniceum
Lecanora cypressi
Lecanora pallida
Lecanora varia
Ocrolechia africana
Phlyctis sp.

Bulbothrix confederata
Bulbothrix goebeli
Bulbothrix laevigata
Hypotrachyna livida
Hypotrachyna pustulifera
Parmelia minarum
Parmeliopsis ambigua
Parmotrema dilatatum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampodense
Canoparmelia caroliniana
Punctelia rudecta
Ramalina americana
Usnea ceratina
Usnea strigosa
Buellia curatellae
Buellia disciformis
Buellia sp.
Physcia alpicola
Heterodermia obscurata
Pyxine caesiopruinosa
Pyxine caesiopruinosa f. aurea
Normandina pulchella
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris

Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana
Bur-reed
Sparganium americanum
Cane; Switch Cane
Arundinaria gigantea
Dulichium (sedge)
Dulichium arundinaceum
Golden-club
Orontium aquaticum
Arrowleaf Arum
Peltandra virginica
Bogmoss
Mayaca sp.
Spanish-moss
Tillandsia usneoides
Greenbrier; Bullbrier
Smilax rotundifolia
Sawbrier; Greenbrier
Smilax glauca
Bamboo Smilax
Smilax laurifolia
Spoonleaf Yucca
Yucca filamentosa filamentosa
Wax-myrtle; Southern Bayberry
Myrica cerifera
Swamp Bayberry
Myrica heterophylla
Mockernut Hickory
Carya tomentosa
Tag Alder
Alnus serrulata
Post Oak
Quercus stellata
Scrubby Post Oak
Quercus margaretta
Live Oak
Quercus virginiana
Turkey Oak
Quercus laevis
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Winged Elm
Ulmus alata
False Nettle
Boehmeria cylindrica
Wire-plant
Stipulicida setacea
Tulip-poplar
Liriodendron tulipifera
Sweetbay
Magnolia virginiana
Redbay
Persea borbonia
Sassafras
Sassafras albidum

Virginia-willow
Itaia virginica
Sweet-gum
Liquidambar styraciflua
Witch-alder
Fothergilla gardenii
Blackberry; Brambles
Rubus sp.
Red Chokeberry
Sorbus arbutifolia arbutifolia
Hawthorn
Crataegus sp.
Black Cherry; Wild Cherry
Prunus serotina
Carolina Cherry-laurel
Prunus caroliniana
Sensitive-brier
Schrankia microphylla
Gopherweed
Baptisia perfoliata
Rattlebox
Crotalaria angulata
American Wisteria
Wisteria frutescens
Chinese Wisteria
Wisteria sinensis
Tephrosia
Tephrosia spicata
Butterfly-pea
Clitorea mariana
Tread-softly
Cnidioscolus stimulosus
Poison Sumac
Rhus vernix
Poison-ivy
Rhus radicans
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
Titi
Cyrrilla racemiflora
American Holly
Ilex opaca
Inkberry
Ilex glabra
Sweet Galberry
Ilex coriacea
Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
Loblolly-bay
Gordonia lasianthus
St.-Andrew's-cross
Hypericum hypericoides
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Flowering Dogwood
Cornus florida
Sweet Pepperbush
Clethra alnifolia tomentosa
Spotted Wintergreen
Chimaphila maculata

Hammocksweet Azalea*Rhododendron viscosum serrulatum***Mountain-laurel***Kalmia latifolia***Fetterbush***Lyonia lucida***Dog-hobble***Leucothoe axillaris***Coastal Honeybells***Leucothoe racemosa***Sourwood***Oxydendrum arboreum***Huckleberry***Gaylussacia sp.***Sparkleberry***Vaccinium arboreum***Squaw-huckleberry***Vaccinium stamineum stamineum***Highbush Blueberry***Vaccinium corymbosum***Persimmon***Diospyros virginiana***Horse-sugar; Sweetleaf***Symplocos tinctoria***Water Ash; Carolina Ash***Fraxinus caroliniana***Yellow Jessamine***Gelsemium sempervirens***Small Floating-heart***Nymphoides cordata***Butterfly-weed***Asclepias tuberosa***Sandhill Milkweed***Asclepias humistrata***White Morning-glory***Bonania patens***Cross Vine***Anisostichus capreolata***Catalpa***Catalpa sp.***Button-bush***Cephalanthus occidentalis***Japanese Honeysuckle***Lonicera japonica***Possumhaw Viburnum***Viburnum nudum***American Elderberry***Sambucus canadensis***FAUNA****Walkingstick***Diaperomera femorata***Common Eastern Velvet-ant***Dasyneura occidentalis***Comet Darter***Anax longipes***Eastern Pondhawk***Erythemis simplicicollis***Great Blue Skimmer***Libellula vibrans***Eastern Amberwing (dragonfly)***Perithemis tenera***Violet-masked Glider***Tramea carolina***Ebony Jewelwing***Calopteryx maculata***Variable Dancer (damselfly)***Argia fumipennis***Pearl Crescent***Phyciodes tharos***Common Buckeye (butterfly)***Junonia coenia***Southern Cricket Frog***Acris gryllus***Pine Woods Treefrog***Hyla femoralis***Green Frog; Bronze Frog***Rana clamitans***Eastern Mud Turtle (sign)***Kinosternon subrubrum***Carolina Anole***Anolis carolinensis***Northern Bobwhite***Colinus virginianus***Yellow-billed Cuckoo***Coccyzus americanus***Red-bellied Woodpecker***Melanerpes carolinus***Red-headed Woodpecker***Melanerpes erythrocephalus***Great Crested Flycatcher***Myiarchus cinerascens***Eastern Wood-pewee***Contopus virens***Acadian Flycatcher***Empidonax virens***American Crow***Corvus brachyrhynchos***Tufted Titmouse***Parus bicolor***Wood Thrush***Hylocichla ustulata***White-eyed Vireo***Vireo griseus***Prothonotary Warbler***Protonotaria citrea***Black-and-white Warbler***Mniotilta varia***Pine Warbler***Dendroica pinus***Hooded Warbler***Wilsonia citrina***Yellowthroat***Geothlypis trichas***Northern Cardinal***Cardinalis cardinalis***Rufous-sided Towhee***Pipilo erythrophthalmus***White-tailed Deer***Odocoileus virginianus*

(Photo by L. Greenleaf)

Mary Garland Douglass and Oscar LaBorde key flora.

Savannah River Bluffs Heritage Preserve**Aiken County****June 23, 1990**

Savannah River Bluffs Heritage Preserve provides a wide variety of special features in the realm of natural history. River bluffs on the high side, with the slope leading down to the river, provide a high concentration of uncommon plants. The mild temperatures that day helped contribute to one of the longest flora-fauna lists a single day excursion has produced. A red-tailed hawk was unusually disturbed by human presence. Was it nesting? No nest was found. Ripe blackberries added an unexpectedly sweet snack; a sphinx moth larva covered with braconid wasp cocoons reminded us of the harshness of nature. Unusual plants and much insect activity abounded. The rocky shoals spider-lily was abundant, blooming along the banks and the shoals of the river.

Directions to Savannah River Bluffs Heritage Preserve: From I-20 west of Columbia, take Exit 1 (SC 230, Martintown Road) south toward North Augusta. Go 0.5 miles to a "SMILE" gas station, then turn right on the first paved road, Plantation Road. After 0.2 miles, turn right again on Old Plantation Road. Drive 0.3 miles and park before the sign indicating private property. Walk 0.1 mile along the road through private property to trail sign on the left. Follow the trail to a power line right-of-way, turn left along the power line, then right to the Savannah River Bluffs loop trail.



Savannah River Bluffs Heritage Preserve (continued)
June 23, 1990

FLORA

Lichen

Cladonia evanii
Cladonia chlorophaea
Cladonia floerkeana
Cladonia mateocynia
Hypotrachyna livida
Parmelia dissecta
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema robustum
Parmotrema subinctorium
Parmotrema sinctorum
Parmotrema saxosum
Pseudoparmelia caroliniana
Xanthoparmelia plinii
Xanthoparmelia submarginata
Canoparmelia crocasiiana
Punctelia radicata
Tackermannopsis oakesiana
Physcia millegrana
Physcia sorediosa

Common Grape Fern

Botrychium dissectum

Hairy Lip Fern

Charitatheris lanosa

Spreading Bladder Fern

Cystopteris protrusa

Christmas Fern

Polystichum acrostichoides

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Loblolly Pine

Pinus taeda

Bald-cypress

Taxodium distichum

Eastern Red-cedar

Juniperus virginiana

Pondweed

Potamogeton sp.

Brazilian Elodea

Egeria densa

Cane; Switch Cane

Arundinaria gigantea

Spike Grass

Uniola sessiliflora

River Oats

Uniola latifolia

Quaking Grass

Briqua minor

Melle Grass

Melica matica

Wild Rye Grass

Elymus virginicus

Oat Grass

Danthonia spicata

Needle Grass

Stipa avenacea

Brachyelytrum (grass)

Brachyelytrum erectum

Oplismenus (grass)

Oplismenus setarius

Microstegium (grass)

Microstegium vimineum

Spike-rush

Eleocharis obtusa

Bulrush

Scirpus kollolepis

Nut-rush

Scleria oligantha

Sedge

Carex retroflexa

Carex rosea

Carex cephalophora

Carex vulpinoidea

Carex willdenowii

Carex blanda

Carex amphibola

Carex flaccosperma

Carex oxylepis

Carex debilis

Carex caroliniana

Carex complanata

Carex crinita

Carex intumescens

Dwarf Palmetto

Sabal minor

Arrowleaf Arum

Peltandra virginica

Spanish-moss

Tillandsia usneoides

Dayflower

Commelina erecta

Roseling; Spiderwort

Tradescantia rosea

Spiderwort

Tradescantia hirsuticaulis

Soft Rush

Juncus effusus

Path Rush

Juncus tenuis

Woodrush

Luzula echinata

Fringed Greenbrier

Smilax bona-nox

Sawbrier; Greenbrier

Smilax glauca

False Solomon's Seal

Smilacina racemosa

Bellwort

Uvularia perfoliata

Wild Yam

Dioscorea villosa

Spider-lily

Hymenocallis occidentalis

Yellow Star-grass

Hypoxis hirsuta

False Aloe

Agave virginica

Blue-eyed-grass

Sitirinchium microneuratum

Southern Blue Flag

Iris virginica

Black Walnut

Juglans nigra

Pignut Hickory

Carya glabra

Tag Alder

Alnus serrulata

River Birch

Betula nigra

White Oak

Quercus alba

Post Oak

Quercus stellata

Red Oak

Quercus rubra

Swamp Red Oak

Quercus shumardii

Black Oak

Quercus velutina

Spanish Oak

Quercus falcata

Water Oak

Quercus nigra

Laurel Oak

Quercus laurifolia

Slippery Elm

Ulmus rubra

American Elm

Ulmus americana

Winged Elm

Ulmus alata

Hackberry

Celtis occidentalis georgiana

Red Mulberry

Morus rubra

Wood-nettle

Laportea canadensis

False Nettle

Boehmeria cylindrica

Virginia Snakeroot

Aristolochia serpentaria

Heartleaf

Hexastylis arifolia

Common Chickweed

Stellaria media

Windflower

Thalictrum thalictroides

Liverleaf

Hepatica americana

Coralbeads

Cocculus carolinus

Southern Magnolia

Magnolia grandiflora

PawPaw

Asimina triloba

Arabis

Arabis laevigata

Virginia-willow

Itea virginica

Mock-orange

Philadelphus inodorus

Alumroot

Heuchera americana

Sweet-gum

Liquidambar styraciflua

Witch-hazel

Hamamelis virginiana

American Sycamore

Platanus occidentalis

Indian Strawberry

Duchesnea indica

Blackberry

Rubus argutus

Redroot; Avens

Geum canadense

Cocklebur

Agrimonia pubescens microcarpa

Hawthorn <i>Crataegus punctata</i>	Spotted Touch-me-not <i>Impatiens capensis</i>	Fringe-tree <i>Chionanthus virginicus</i>	Thistle <i>Carduus sp.</i>
Cockspur Hawthorn <i>Crataegus crus-galli</i>	Supple-jack; Rattan-vine <i>Berchemia scandens</i>	Chinese Privet <i>Ligustrum sinense</i>	Elephant's-foot <i>Elephantopus tomentosus</i>
Littlehip Hawthorn <i>Crataegus spathulata</i>	Buckthorn <i>Rhamnus caroliniana</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Climbing Hempweed <i>Mikania scandens</i>
Downy Serviceberry <i>Amelanchier arborea</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Indian-pink <i>Spigelia marilandica</i>	Pussy-toes <i>Antennaria plantaginifolia</i>
Black Cherry; Wild Cherry <i>Prunus serotina</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Angle-pod <i>Masteca gonocarpa</i>	Rabbit-tobacco <i>Gnaphalium sp.</i>
Redbud; Judas-tree <i>Cercis canadensis</i>	Pepper-vine <i>Ampelopsis arborea</i>	Baby-blue-eyes <i>Nemophila microcalyx</i>	Daisy Fleabane <i>Erigeron annuus</i>
Wild Senna <i>Cassia marilandica</i>	Basswood; Linden <i>Tilia caroliniana</i>	Heliotrope <i>Heliotropium amplexicaule</i>	Bearsfoot <i>Polymnia uvedalia</i>
Yellowwood <i>Cladrastis lutea</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Brazilian Vervain <i>Verbena braziliensis</i>	Silphium <i>Silphium dentatum</i>
White Wild Indigo <i>Baptisia alba</i>	St.-John's-wort <i>Hypericum mutilum</i>	Beautyberry <i>Callicarpa americana</i>	Spilanthes <i>Spilanthes americana repens</i>
Indigo-bush <i>Amorpha fruticosa</i>	St.-John's-wort <i>Hypericum punctatum</i>	Lop-seed <i>Phyma leptostachya</i>	Verbesina <i>Verbesina sp.</i>
Naked-flower Tick-trefoil <i>Desmodium nudiflorum</i>	Rockrose, Frostweed <i>Helianthemum rosmarinifolium</i>	Common Skullcap <i>Scutellaria integrifolia</i>	Bitterweed <i>Helenium amarum</i>
Black Locust <i>Robinia pseudo-acacia</i>	Violet <i>Viola sp.</i>	Skullcap <i>Scutellaria elliptica</i>	Rust <i>Gymnosporangium sp.</i>
Tephrosia <i>Tephrosia spicata</i>	Yellow Passionflower <i>Passiflora lutea</i>	Carpenterweed <i>Prunella vulgaris</i>	FAUNA
Groundnut <i>Apios americana</i>	Thorny Elaeagnus <i>Elaeagnus pungens</i>	Pennyroyal <i>Hedeoma pulegioides</i>	River Horn Snail <i>Elimia sp.</i>
Hog-peanut <i>Amphicarpa bracteata</i>	Russian-olive <i>Elaeagnus umbellata</i>	Shrubby Savory <i>Satureja georgiana</i>	White-lipped Forest Snail <i>Mesodon thyridius</i>
Wood-sorrel <i>Oxalis florida</i>	Water-milfoil <i>Myriophyllum brasiliense</i>	Moth Mullein <i>Verbascum blattaria</i>	Juxtaposed Forest Snail <i>Triodopsis juxtidens</i>
Wild Geranium <i>Geranium maculatum</i>	Devil's-walking-stick <i>Aralia spinosa</i>	Downy False Foxglove <i>Aureolaria virginica</i>	River Horn Snail <i>Goniobasis sp.</i>
Racemed Milkwort <i>Polypogon polygama</i>	Pennywort <i>Hydrocotyle verticillata</i>	Cross Vine <i>Anisostichus capreolata</i>	Copper Great Zonite (snail) <i>Mesomphix cupreus</i>
Polygala <i>Polygala verticillata</i>	Sweet Chervil <i>Osmorhiza longistylis</i>	Trumpet Vine <i>Campsis radicans</i>	Asiatic Clam <i>Corbicula fluminea</i>
Tragia <i>Tragia urticifolia</i>	Wild Chervil <i>Chaerophyllum tainturieri</i>	Ruellia <i>Ruellia carolinensis</i>	Asiatic Clam <i>Corbicula manilensis</i>
Poison-ivy <i>Rhus radicans</i>	Trepocarpus <i>Trepocarpus aethusa</i>	Bracted Plantain <i>Plantago aristata</i>	Orchard Spider <i>Leucage venusta</i>
Winged Sumac <i>Rhus copallina</i>	Mock Bishop's-weed <i>Prillimnium capillaceum</i>	Button-bush <i>Cephalanthus occidentalis</i>	Green-striped Grasshopper <i>Chortophaga viridifasciata</i>
American Holly <i>Ilex opaca</i>	Flowering Dogwood <i>Cornus florida</i>	Bluets <i>Houstonia longifolia</i>	Snowy Tree Cricket <i>Oecanthus fultoni</i>
Possumhaw Holly <i>Ilex decidua</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Cleavers <i>Galium aparine</i>	Leaf-footed Bug <i>Acanthoccephala femorata</i>
Holly <i>Ilex sp.</i>	Piedmont Azalea <i>Rhododendron canescens</i>	Sweet Breath-of-spring <i>Lonicera fragrantissima</i>	Frog hopper <i>Prosapia bicincta</i>
Hearts-a-burstin'-with-love <i>Euonymus americanus</i>	Sparkleberry <i>Vaccinium arboreum</i>	Japanese Honeysuckle <i>Lonicera japonica</i>	Goldenrod Ball Gall (fly) <i>Eurosta solidaginis</i>
Bladdernut <i>Staphylea trifolia</i>	Squaw-huckleberry <i>Vaccinium stamineum stamineum</i>	Black-haw; Nanny-berry <i>Viburnum prunifolium</i>	Dragonslayer <i>Hagenia brevistylis</i>
Boxelder <i>Acer negundo</i>	Elliott's Blueberry <i>Vaccinium elliotii</i>	Venus'-looking-glass <i>Specularia perfoliata</i>	Pied Skimmer <i>Libellula lucrosa</i>
Red Maple <i>Acer rubrum</i>	Shooting-star <i>Dodecatheon meadia</i>	Small Venus'-looking-glass <i>Specularia biflora</i>	Ebony Jewelling <i>Colopteryx maculata</i>
Southern Sugar Maple <i>Acer saccharum floridanum</i>	Persimmon <i>Diospyros virginiana</i>	Wahlenbergia <i>Wahlenbergia marginata</i>	Woodland Ground Beetle <i>Evarthrus sp.</i>
Chalk Maple <i>Acer saccharum leucoderme</i>	American Ash; White Ash <i>Fraxinus americana</i>	Rattlesnake-weed <i>Hieracium venosum</i>	Whirligig Beetle <i>Dineutus sp.</i>
Painted Buckeye <i>Aesculus sylvatica</i>	White Ash; American Ash <i>Fraxinus americana biltmoreana</i>	Dwarf Dandelion <i>Krigia virginica</i>	Large Rove Beetle <i>Staphylinus sp.</i>
Bottlebrush Buckeye <i>Aesculus parviflora</i>	Forestiera <i>Forestiera ligustrina</i>	Small's Ragwort <i>Senecio smallii</i>	Passalus; Bess-beetle <i>Popillius disjunctus</i>

Savannah River Bluffs Heritage Preserve (continued)

June 23, 1990

June Beetle

Phyllophaga sp.

Japanese Beetle

Popillia japonica

Tick Trefoil Leaf-miner

Pachyschelus laevigatus

Eyed Elater

Alaus ocalatus

Soldier Beetle

Cantharis sp.

Firefly; Lightning Beetle

Lucidota atra

Firefly; Lightning Beetle

Photinus pyralis

Tumbling Flower Beetle

Mordellistena fuscata

Darkling Beetle

Strongylus sp.

Sap-feeding Beetle

Pallodes sp.

Flower Weevil

*Odonocorynus scutellum-album**Odonocorynus pulverulentus*

Black Swallowtail

Papilio polytes asterius

Common Buckeye (butterfly)

Junonia coenia

Carolina Satyr (butterfly)

Hermeuptychia sisybius

Little Wood-satyr (butterfly)

Megisto cymela

Zabulon Skipper

Poanes zabulon

Polyphemus Moth

Antheraea polyphemus

Luna Moth

Actias luna

Fowler's Toad

Bufo woodhousei

Cope's Gray Treefrog

Hyla chrysoscelis

Carolina Anole

Anolis carolinensis

Copperhead

Agkistrodon contortrix

Red-tailed Hawk

Buteo jamaicensis

Yellow-billed Cuckoo

Coccyzus americanus

Pileated Woodpecker (tracks)

Dryocopus pileatus

Barn Swallow

Hirundo rustica

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

Blue-gray Gnatcatcher

Polioptila caerulea

Eastern Bluebird

Sialia sialis

Northern Parula

Parula americana

Northern Cardinal

Cardinalis cardinalis

Rufous-sided Towhee

Pipilo erythrophthalmus

Summer Tanager

Piranga rubra

Eastern Cottontail (sca)

Sylvilagus floridanus

Gray Squirrel

Sciurus carolinensis

Raccoon

Procyon lotor

White-tailed Deer (tracks)

Odocoileus virginianus

Savannah River Site

Aiken & Barnwell Counties

August 27, 1994

The natural areas on the Savannah River Site, a facility of the U.S. Dept. of Energy, are monitored by the Savannah River Ecology Lab. The staff of the Lab conducted our field trip by special arrangement. The trip started at a Carolina bay completely enclosed in a drift fence (nonoperational in August) used to monitor reptiles and amphibians, and some insect populations. Next was a cypress swamp with a floating boardwalk and a nice female cottonmouth at the entrance, which was caught by lab personnel to be measured and recorded and later released back at the boardwalk. Lastly, we visited the live animal collection and learned about ongoing research projects at the lab. SCAN was happy just observing the dragonflies sharing the alligator pool with the 'gators.

Directions to Savannah River Site: From Aiken, take SC 19 south through New Ellenton, cross US 278, and continue until Road 1 forks off to the right. Travel on Road 1 for 3-5 miles. At the yellow light, slow down and go through the guard gate. The first large building on the left is the Savannah River Ecology Lab; take the second entrance to the parking lot for visitors. NOTE: The Savannah River Site cannot be visited without prior arrangement.



FLORA

Lichen

Graphis scripta
Glyphis cicutricosa
Phaeographis dendritica
Bacidia polychroa
Lepogium austroamericanum
Cladonia sobolesens
Cladonia leporina
Pertusaria copiosa
Pertusaria ostiolata

Pertusaria paratuberculifera
Pertusaria texana
Pertusaria tetralthalmia
Pertusaria sinuomexicana
Maronea constans
Lecanora cupressi
Lecanora pallida
Lecanora varia
Lecanora hybocarpa
Ochrolechia africana
Bulbothrix goebellii

<i>Bulbothrix goebeli f. minor</i>	Laurel Oak	<i>Amelops arborescens</i>	Pepper-vine	<i>Partridge-berry</i>
<i>Bulbothrix laevigata</i>	<i>Quercus laurifolia</i>	<i>Ampelopsis arborescens</i>	<i>Amelops arborescens</i>	<i>Mitchella repens</i>
<i>Hypotrachyna livida</i>	American Elm	<i>Pineweed</i>	<i>Hypericum gentianoides</i>	Japanese Honeysuckle
<i>Hypotrachyna pustulifera</i>	<i>Ulmus americana</i>	<i>Hypericum gentianoides</i>	<i>Hypericum gentianoides</i>	<i>Lonicera japonica</i>
<i>Parmelia aurulenta</i>	Winged Elm	<i>Hypericum mutilum</i>	<i>Hypericum mutilum</i>	Cardinal-flower
<i>Parmotrema hypoleucum</i>	<i>Ulmus alata</i>	Hypericum	<i>Hypericum</i>	<i>Lobelia cardinalis</i>
<i>Parmotrema michauxianum</i>	Water-elm; Planer-tree	<i>Hypericum sp.</i>	<i>Hypericum</i>	Fireweed
<i>Parmotrema perforatum</i>	<i>Planera aquatica</i>	Prickly-pear	<i>Hypericum</i>	<i>Erechtites hieracifolia</i>
<i>Parmotrema praesorediosum</i>	Sugarberry; Hackberry	<i>Opuntia compressa</i>	<i>Opuntia compressa</i>	<i>Elephant's-foot</i>
<i>Parmotrema rampodense</i>	<i>Celtis laevigata</i>	Water Loosestrife	<i>Decodon verticillatus</i>	<i>Elephantopus sp.</i>
<i>Punctelia rufecta</i>	Red Mulberry	<i>Pale Meadow-beauty</i>	<i>Decodon verticillatus</i>	Blazing-star
<i>Rimelia reticulata</i>	<i>Morus rubra</i>	<i>Rhexia mariana</i>	<i>Rhexia mariana</i>	<i>Liatris secunda</i>
<i>Usnea strigosa</i>	False Nettle	Common Meadow-beauty	<i>Rhexia virginica</i>	Dog-fennel
<i>Baellia curatellae</i>	<i>Boehmeria cylindrica</i>	<i>Rhexia virginica</i>	<i>Rhexia virginica</i>	<i>Eupatorium capillifolium</i>
<i>Baellia disciformis</i>	Jumpseed	<i>Ludwigia</i>	<i>Ludwigia</i>	<i>Eupatorium compositifolium</i>
<i>Physcia alpestris</i>	<i>Tovara virginiana</i>	<i>Ludwigia suffruticosa</i>	<i>Ludwigia</i>	Climbing Hempweed
<i>Physcia alba</i>	Polygonum	<i>Ludwigia</i>	<i>Ludwigia</i>	<i>Mikania scandens</i>
<i>Heterodermia albicans</i>	<i>Polygonum sp.</i>	Marsh Pennywort	<i>Hydrocotyle umbellata</i>	Rabbit-tobacco
<i>Pyxine caesioprinosus</i>	<i>Nymphaea odorata</i>	<i>Swamp Tupelo; Swamp Blackgum</i>	<i>Nyssa sylvatica biflora</i>	<i>Gnaphalium obtusifolium</i>
<i>Anthracotheicum leucostomum</i>	Water-shield	<i>Nyssa aquatica</i>	<i>Nyssa aquatica</i>	Goldenrod
<i>Anthracotheicum sp.</i>	<i>Brasenia schreberi</i>	Flowering Dogwood	<i>Flowering Dogwood</i>	<i>Solidago sp.</i>
<i>Trypethelium mastoideum</i>	Sassafras	<i>Cornus florida</i>	<i>Cornus florida</i>	Black-knot
Sensitive Fern	<i>Sassafras albidum</i>	Blueberry	<i>Vaccinium sp.</i>	<i>Apiosporina morbosus</i>
<i>Oncoclea sensibilis</i>	Virginia-willow	<i>Persimmon</i>	<i>Diospyros virginiana</i>	FAUNA
Loblolly Pine	<i>Itea virginica</i>	<i>Water Ash; Carolina Ash</i>	<i>Fraxinus caroliniana</i>	Arrow-shaped Spiny-back
<i>Pinus taeda</i>	Sweet-gum	<i>Ash</i>	<i>Fraxinus sp.</i>	<i>Micrathene sagittata</i>
Bald-cypress	<i>Liquidambar styraciflua</i>	Miterwort	<i>Cynoctonum mitreola</i>	Orb-weaver
<i>Taxodium distichum</i>	Blackberry	<i>Polygnum procumbens</i>	<i>Polygnum procumbens</i>	<i>Neoscona arabesca</i>
Common Cat-tail	<i>Rubus argutus</i>	Swamp Milkweed	<i>Asclepias perennis</i>	Green Lynx Spider
<i>Lythra latifolia</i>	Blackberry; Brambles	<i>Ground-ivy; Ponyfoot</i>	<i>Dichondra carolinensis</i>	<i>Psecutia viridans</i>
Creeping Water-plantain	<i>Rubus sp.</i>	Phlox	<i>Phlox sp.</i>	Jumping Spider
<i>Echinodorus cordifolius</i>	Chickasaw Plum	Verbena	<i>Verbena sp.</i>	<i>Phidippus cardinalis</i>
Cane; Switch Cane	<i>Prunus angustifolia</i>	Beauty berry	<i>Callicarpa americana</i>	Olive-green Swamp Grasshopper
<i>Arundinaria gigantea</i>	Black Cherry; Wild Cherry	Dotted Horsemint	<i>Monarda punctata</i>	<i>Paroxys clavuliger</i>
Smut Grass	<i>Prunus serotina</i>	Chinese-lanterns	<i>Physalis virginiana virginiana</i>	Meadow Katydid
<i>Sporobolus poiretii</i>	Redbud; Judas-tree	Monkey-flower	<i>Mimulus alatus</i>	<i>Orchelimum volantum</i>
Baggy-knees Grass	<i>Cercis canadensis</i>	Gerardia	<i>Agalinis sp.</i>	Short-horned Grasshopper
<i>Sacciolepis striata</i>	Wild Sensitive-plant	Trumpet Vine	<i>Campsis radicans</i>	<i>Metatleptea brevicornis</i>
Microstegium (grass)	<i>Cassia nictitans</i>	Bladderwort	<i>Utricularia biflora</i>	Autumn Yellow-winged Grasshpr.
<i>Microstegium vimineum</i>	Wild Indigo	Button-bush	<i>Cephalanthus occidentalis</i>	<i>Arphia xanthoptera</i>
Wool-grass	<i>Baptisia sp.</i>	Poor-jo (or Po-jo)	<i>Diodia teres</i>	Boll's Sand Grasshopper
<i>Scirpus cyperinus</i>	Sericea	Mexican-clover	<i>Richardia scabra</i>	<i>Spharagemon bolli</i>
Umbrella-grass	<i>Lespedeza cuneata</i>			Spur-throated Grasshopper
<i>Fuirena squarrosa</i>	Groundnut			<i>Melanoplus sp.</i>
Dwarf Palmetto	<i>Apios americana</i>			Leather-color Bird Grasshopper
<i>Sabal minor</i>	Three-seeded Mercury			<i>Schistocerca alutacea</i>
Yellow-eyed-grass	<i>Acalypha sp.</i>			Cone-headed Katydid
<i>Xyris sp.</i>	Poison-ivy			<i>Neoconocephalus retusus</i>
Spanish-moss	<i>Rhus radicans</i>			Backswimmer
<i>Tillandsia usneoides</i>	Poison-oak			<i>Notonecta sp.</i>
Greenbrier; Bullbrier	<i>Rhus toxicodendron</i>			Day Cicada
<i>Smilax rotundifolia</i>	Winged Sumac			<i>Tibicen canicularis</i>
Fringed Greenbrier	<i>Rhus copallina</i>			Argid Sawfly
<i>Smilax bona-nox</i>	Red Maple			<i>Argidae Family</i>
Lizard's-tail	<i>Acer rubrum</i>			Leafy Oak Gall (wasp)
<i>Saururus cernuus</i>	Red Buckeye			<i>Andricus foliatus</i>
Black Willow	<i>Aesculus pavia</i>			Common Eastern Velvet-ant
<i>Salix nigra</i>	Spotted Touch-me-not			<i>Dasymutilla occidentalis</i>
Tag Alder	<i>Impatiens capensis</i>			Cypress Flower Gall (midge)
<i>Alnus serrulata</i>	Virginia-creeper			<i>Ionida anthici</i>
White Oak	<i>Parthenocissus quinquefolia</i>			Common Green Darner
<i>Quercus alba</i>	Muscadine; Bullace			<i>Anax junius</i>
Post Oak	<i>Vitis rotundifolia</i>			Eastern Pondhawk
<i>Quercus stellata</i>	Grape			<i>Erythemis simplicicollis</i>
Water Oak	<i>Vitis sp.</i>			
<i>Quercus nigra</i>				

Savannah River Site (continued)

August 27, 1994

Blue Dragonlet <i>Erythrodiplos minimuscula</i>	Colorful Foliage Ground Beetle <i>Nemotarsus elegans</i>
Golden-winged Skimmer <i>Libellula auripennis</i>	Crawling Water Beetle <i>Haliphys triopis</i>
Slaty Skimmer <i>Libellula incesta</i>	<i>Pelodytes shermani</i>
Great Blue Skimmer <i>Libellula vibrans</i>	<i>Pelodytes</i> sp.
Common Whitetail (dragonfly) <i>Libellula lydia</i>	Predacious Diving Beetle <i>Copostonus interrogatus</i>
Blue Dasher <i>Pachydiplax longipennis</i>	Burrowing Water Beetle <i>Copius inflatus</i>
Wandering Glider <i>Pantala flavescens</i>	Whirligig Beetle <i>Discutis serrulatus serrulatus</i>
Violet-masked Glider <i>Tramea carolina</i>	Water Scavenger Beetle <i>Tropisternus collaris striolatus</i>
Black-mantled Glider <i>Tramea lacerata</i>	<i>Berosus</i> sp.
Ebony Jewelwing <i>Coloperyx maculata</i>	<i>Enochrus ochraceus</i>
Variable Dancer (damselfly) <i>Argia fumipennis</i>	Marsh Beetle <i>Scirtes</i> sp.
Lilypad Forktail (damselfly) <i>Ischnura kellicotti</i>	Soldier Beetle <i>Chasmodon marginatus</i>
Fragile Forktail (damselfly) <i>Ischnura posita</i>	Blister Beetle <i>Pyretra lineata</i>
	Lizard Beetle <i>Languria lecontei</i>
	Dusky Lady Beetle <i>Scymnus</i> sp.

Multicolored Asian Lady Beetle

<i>Harmonia axyridis</i>
Oval Leaf Beetle <i>Metachroma longicollis</i>
Broad-bodied Leaf Beetle <i>Zymogramma suturalis</i>
Flea Beetle <i>Disonychia</i> sp.
<i>Systema frontalis</i>
White-fringed Beetle <i>Graphognathus leucoloma</i>
<i>Graphognathus</i> sp.
Fruit Weevil <i>Anthonomus tectus</i>
Cloudless Sulphur <i>Phoebis sennae cubule</i>
Monarch (butterfly) <i>Danauus plexippus</i>
Silver-spotted Skipper <i>Epargyreus clarus</i>
Long-tailed Skipper <i>Urbanus proteus</i>
Least Skipper <i>Ancylosypha numitor</i>
Polyphemus Moth <i>Antheraea polyphemus</i>
Southern Cricket Frog <i>Acris gryllus</i>
Carolina Anole <i>Anolis carolinensis</i>

Broadhead Skink

<i>Eumeces laticeps</i>
Six-lined Racerunner <i>Cnemidophorus sexlineatus</i>
Cottonmouth <i>Agkistrodon piscivorus</i>
Reddish Egret <i>Egretta rufescens</i>
Turkey Vulture <i>Cathartes aura</i>
Red-shouldered Hawk <i>Buteo lineatus</i>
Wild Turkey <i>Meleagris gallopavo</i>
American Crow <i>Corvus brachyrhynchos</i>
Gray Catbird <i>Dumetella carolinensis</i>
White-eyed Vireo <i>Vireo griseus</i>
Yellowthroat <i>Geothlypis trichas</i>
Northern Cardinal <i>Cardinalis cardinalis</i>
Rufous-sided Towhee <i>Pipilo erythrophthalmus</i>
Rabbit <i>Sylvilagus</i> sp.
Wild Pig (sign) <i>Sus scrofa</i>

Silver Bluff Audubon Preserve

Aiken County

September 25, 1993

Silver Bluff is an Audubon sanctuary noted for its wood storks and its hardwood river bottom. Dan Connelly, preserve manager, gave us background information on management techniques currently in use, and showed us the significant areas to visit. On this day, about 160 wood storks were present as well as many other birds. Ecologically varied sites such as cypress-tupelo river bottomland (dry from drought), managed longleaf pine woods, and meadow-forest edges were visited. The beginning of autumn was much in evidence with beautiful stands of fall wildflowers, including for many of us the first sighting of bur cucumber (*Sicyos angulatus*) in bloom. It was a "grand day".

Directions to Silver Bluff Audubon Preserve: From downtown Aiken, take SC 19 south approximately 2 miles; angle right onto SC 302 (Silver Bluff Road). After 12 miles cross SC 125, where Silver Bluff Road becomes County Road 32. Continue for about 3.5 miles more, crossing the railroad track. After going 0.5 miles past the railroad, there are chain-link fences on both sides of the road; go through the gate on the left.



FLORA

Lichen

Cladonia chlorophaea
Cladonia cristatella
Cladonia polycarpoides
Cladonia peziziformis
Haematomma puniceum
Lecanora subfusca
Lecanora cupressi
Lecanora pallida
Lecanora varia
Ochrolechia africana
Bulbothrix goebelii
Hypotrachyna livida
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema subsidiosum
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Ramalina americana
Usnea strigosa
Buellia punctata
Heterodermia obscurata

Royal Fern

Osmunda regalis spectabilis

Bracken

Pteridium aquilinum

Southern Lady Fern

Athyrium asplenoides

Sensitive Fern

Onoclea sensibilis

Netted Chain Fern

Woodwardia areolata

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Loblolly Pine

Pinus taeda

Bald-cypress

Taxodium distichum

Cane; Switch Cane

Arundinaria gigantea

Spike Grass

Uniola sessiliflora

River Oats

Uniola latifolia

Three Awn Grass

Aristida tuberculosa

Goose Grass

Elymus indica

Wingstem

Leersia lenticularis

Spanish-moss

Tillandsia usneoides

Dayflower

Commelina virginica

Commelina communis

Asian Spiderwort

Anilema krizak

Sweet-scented Smilax

Smilax smallii

Sarsaparilla-vine

Smilax pumila

Ladies'-tresses

Spiranthes sp.

Lizard's-tail

Saururus cernuus

Wax-myrtle; Southern Bayberry

Myrica cerifera

Hickory

Carya sp.

American Hornbeam; Ironwood

Carpinus caroliniana

Overcup Oak

Quercus lyrata

Water Oak

Quercus nigra

Red Mulberry

Morus rubra

False Nettle

Boehmeria cylindrica

Cleareweed

Pilea pumila

Jumpseed

Tovara virginiana

Jointweed

Polygonella americana

Mexican-tea

Chenopodium ambrosioides

Pokeweed; Pokeberry

Phytolacca americana

Coralbeads

Coccoloba carolinensis

Tulip-poplar

Liriodendron tulipifera

Sassafras

Sassafras albidum

Spicebush

Lindera benzoin

Virginia-willow

Ita virginica

Climbing-hydrangea

Decumaria barbara

Sweet-gum

Liquidambar styraciflua

American Sycamore

Platanus occidentalis

Hawthorn

Crataegus sp.

Sicklepod

Cassia obtusifolia

Painted-leaf

Euphorbia heterophylla

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

Boxelder

Acer negundo

Red Maple

Acer rubrum

Buckeye

Aesculus sp.

Spotted Touch-me-not

Impatiens capensis

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Pepper-vine

Ampelopsis arborea

Basswood; Linden

Tilia caroliniana

St.-Andrew's-cross

Hypericum hypericoides

Devil's-walking-stick

Aralia spinosa

Swamp Tupelo; Swamp Blackgum

Nyssa sylvatica biflora

Water Tupelo

Nyssa aquatica

Spotted Wintergreen

Chimaphila maculata

Persimmon

Diospyros virginiana

Horse-sugar; Sweetleaf

Symplocos tinctoria

Yellow Jessamine

Gelsemium sempervirens

Angle-pod

Matelea sp.

Tie-weed; Jacquemontia

Jacquemontia tamnifolia

Beautyberry

Callicarpa americana

Cross Vine

Anisostichus capreolata

Trumpet Vine

Campsis radicans

Squaw-root

Conopholis americana

Poor-Jo (or Po-Jo)

Diodia teres

Richardia

Richardia brasiliensis

Partridge-berry

Mitchella repens

Japanese Honeysuckle

Lonicera japonica

American Elderberry

Sambucus canadensis

Bur Cucumber

Sicyos angulatus

Wahlenbergia

Wahlenbergia marginata

Cardinal-flower

Lobelia cardinalis

Common Ragweed

Ambrosia artemisiifolia

Ironweed

Vernonia sp.

Elephant's-foot

Elephantopus tomentosus

Dog-fennel

Eupatorium compositifolium

Mistflower; Ageratum

Eupatorium coelestinum

Climbing Hempweed

Mikania scandens

Marsh-fleabane

Pluchea camphorata

Horseweed; Mare's-tail

Erigeron canadensis canadensis

Frost Aster

Aster pilosus

Goldenrod

Solidago sp.

Spilanthes

Spilanthes americana repens

Spanish-needles

Bidens bipinnata

Velvet Bluespread

Pulcherrimum caeruleum

Turkey-tail

Trametes versicolor

Common Split-gill

Schizophyllum commune

Crowded Parchment

Stereum complicatum

Lemon-yellow Lepiota

Lepiota lutea

Emetic Russula

Russula emetica

Green Brittle-gill

Russula virescens

Granular Puffball

Arachnion album

Puffball

Calvatia utriformis

FAUNA

Writing Spider

Argiope aurantia

Orb-weaver

Neoscona domicillorum

Brownish-gray Fishing Spider

Dolomedes tenebrosus

Six-spotted Fishing Spider

Dolomedes triton

Green Lynx Spider

Psecutia viridans

Yellow Crab Spider

Misumenoides formosipes

Meadow Grasshopper

Orchelimum sp.

Differential Grasshopper

Melanoplus differentialis

Cave Cricket

Ceuthophilus sp.

Field Cricket

Gryllus assimilis

Brown Stink Bug

Euschistus sp.

Broad-headed Bug

Alydus eurinus

Red Bug

Largus succinctus

Ambush Bug

Phymata fasciata

Water-scorpion

Ranatra americana

Frog-hopper

Prosopia bicipitata

Spittlebug

Philaenus sp.

Verbesina Axillary Flower Gail

Rhopalomyia sp.

Common Green Darner

Anax junius

Golden-winged Skimmer

Libellula auripennis

Silver Bluff Audubon Preserve (continued) September 25, 1993

Great Blue Skimmer
Libellula vibrans
Eastern Amberwing (dragonfly)
Perithemis tenera
Sparkling Jewelwing Damselfly
Calopteryx dimidiata
Blue-fronted Dancer Damselfly
Argia apicalis
Powdered Dancer (damselfly)
Argia moesta
Woodland Ground Beetle
Psephenus sp.
Colorful Foliage Ground Beetle
Lebia analis
Crawling Water Beetle
Peltodytes muticus
Whirligig Beetle
Dineutus sp.
Gyrinus borealis
Water Scavenger Beetle
Tropisternus striolatus
Passalus; Bess-beetle
Popillia disjunctus
Dermestid Beetle
Cryptorhopalum picicorne
Black Blister Beetle
Epicauta pennsylvanica
Sap-feeding Beetle
Poecilus sp.
Spotless Lady Beetle
Cycloneda sanguinea
Shining Flower Beetle
Olibrus sp.
Acyronus sp.
Shining Leaf Beetle
Lema sayi
12-spotted Cucumber Beetle
Dialbeticus duodecimpunctatus
Goldbug
Metrius bicolor
Fungus Weevil
Euparius marmoreus
White-fringed Beetle
Graphognathus leucoloma
Graphognathus sp.
Flower Weevil
Centrinaspis griseus
Centrinaspis sp.
Minute Seed Weevil
Aleutes tachygonoides
Pipevine Swallowtail
Battus philenor
Spicebush Swallowtail
Papilio troilus
Cloudless Sulphur
Phoebastria semae cabale
Little Yellow (butterfly)
Eurema lisa
Sleepy Orange (butterfly)
Eurema nicippe
Eastern Tailed-blue (butterfly)
Evers corenthus
Zebra (butterfly)
Heliconius charitonius tuckeri

Variegated Fritillary
Eupioctis claudia
Pearl Crescent
Phyciodes tharos
Common Buckeye (butterfly)
Junonia coenia
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Hackberry Emperor (butterfly)
Asterocampa celis
Carolina Satyr (butterfly)
Hermesophylia sosybius
Banded Tussock Moth
Halyidota tessellaris
American Alligator
Alligator mississippiensis
Yellow-bellied Slider
Chrysemys scripta
Carolina Anole
Anolis carolinensis
Ground Skink
Scincella lateralis
Double-crested Cormorant
Phalacrocorax auritus
Little Blue Heron
Egretta caerulea
Snowy Egret
Egretta thula
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Wood Stork
Mycteria americana
White Ibis
Eudocimus albus
Canada Goose
Branta canadensis
Wood Duck
Aix sponsa
Killdeer
Charadrius vociferus
Spotted Sandpiper
Actitis macularia
Least Sandpiper
Calidris minutilla
Turkey Vulture
Cathartes aura
Bald Eagle
Haliaeetus leucocephalus
Red-shouldered Hawk
Buteo lineatus
Northern Bobwhite
Colinus virginianus
Rock Dove; Pigeon
Columba livia
Mourning Dove
Zenaidura macroura
Barred Owl
Strix varia
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus

Red-headed Woodpecker
Melanerpes erythrocephalus
Downy Woodpecker
Picoides pubescens
Pileated Woodpecker
Dryocopus pileatus
Bank Swallow
Riparia riparia
Northern Rough-winged Swallow
Stelgidopteryx serripennis
Barn Swallow
Hirundo rustica
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Wren
Thryothorus ludovicianus

White-eyed Vireo
Vireo griseus
Red-Eyed Vireo
Vireo olivaceus
Pine Warbler
Dendroica pinus
Northern Cardinal
Cardinalis cardinalis
Common Grackle
Quiscalus quiscula
Virginia Opossum (tracks)
Didelphis virginiana
Eastern Fox Squirrel
Sciurus niger
Raccoon
Procyon lotor
White-tailed Deer
Odocoileus virginianus



(Photo by L. Smith)

Nodding ladies-tresses, *Spiranthes cernua*.

(Photo by L. Greenlee)

Common green darner, *Anax junius*.

(Photo by A. Cingler)

Spittlebug, *Philaenus* sp., hatching. This image was photographed using a microscope.



Allendale County

Chert Quarry
Allendale County
March 26, 1988

Allendale County contains some outstanding outcrops of chert (a dense form of quartz) which were popular with early Indians and still are with present-day rock hounds. These outcrops are privately owned, but one owner was gracious enough to allow us to visit, explore, and collect. The open field near the outcrop and the old road down to the river provided lots of living material to examine as well as fossils to study preserved in the attractive rocks. The area is typical river bottomland. One highlight for many SCAN members was the sighting of a swallowtail kite. Thank you to regional director Frank Hill for getting us permission to visit this site.

Privately owned. Not accessible to the public. Map not included.

FLORA

Sensitive Fern

Onoclea sensibilis
Ebony Spleenwort
Asplenium platyneuron
Loblolly Pine
Pinus taeda

Bald-cypress

Taxodium distichum

Common Cat-tail

Typha latifolia

Cane; Switch Cane

Arundinaria gigantea

Uniola Grass

Uniola laxa

River Oats

Uniola latifolia

Dwarf Palmetto

Sabal minor

Spanish-moss

Tillandsia usneoides

False Garlic

Allium bivalve

Wild Yam

Dioscorea villosa

Blue-eyed-grass

Sisyrinchium sp.

Lizard's-tail

Saururus cernuus

Eastern Cottonwood

Populus deltoides

Wax-myrtle; Southern Bayberry

Myrica cerifera

River Birch

Betula nigra

Hop-hornbeam

Ostrya virginiana

American Hornbeam; Ironwood

Carpinus caroliniana

Swamp Chestnut Oak

Quercus michauxii

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

American Elm

Ulmus americana

Winged Elm

Ulmus alata

Heartleaf

Hexastylis arifolia

Common Chickweed

Stellaria media

Mouse-ear Chickweed

Cerastium glomeratum

Pearlwort

Sagina decumbens

Redbay

Persea borbonia

Mouse-ear Cress

Arabis thaliana

Sweet-gum

Liquidambar styraciflua

American Sycamore

Platanus occidentalis

Swamp Haw

Crataegus viridis

Parsley-leaved Hawthorn

Crataegus marshallii

Redbud; Judas-tree

Cercis canadensis

Coral-bean

Erythrina herbacea

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

American Holly

Ilex opaca

Hearts-a-burstin'-with-love

Erigeron americanus

Red Maple

Acer rubrum

Silver Maple

Acer saccharinum

Red Buckeye

Aesculus pavia

Spotted Touch-me-not

Impatiens capensis

Supple-jack; Rattan-vine

Berchemia scandens

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Pennywort

Hydrocotyle sp.

Buckthorn Bumelia

Bumelia lycioides

Yellow Jessamine

Gelsemium sempervirens

Ground-ivy; Ponyfoot

Dichondra carolinensis

Phacelia

Phacelia dubia

Common Henbit

Lamium amplexicaule

Woolly Mullein

Verbascum thapsus

Toadflax

Linaria canadensis

Cross Vine

Anisostichus capreolata

Partridge-berry

Mitchella repens

Small Bluets

Houstonia missillia

Dwarf Dandelion

Krigia virginica

Tree-ear

Auricularia auricula

Gelatinous-pored Polypore

Calopogon dichrous

Crowded Parchment

Stereum complicatum

False Turkey-tail

Stereum ostrea

Oyster Mushroom

Pleurotus sp.

Earthstar Scleroderma

Scleroderma geaster

Pine-oak Rust

Cronartium quercuum

FAUNA

Six-spotted Fishing Spider

Dolomedes triton

Wolf Spider

Pardosa sp.

Carolina Wolf Spider

Lycosa carolinensis

Green Lynx Spider

Peucetia viridans

Predacious Diving Beetle

Laccophilus fasciatus

Bidessus sp.

Water Scavenger Beetle

Hydrochus inaequalis

Passalus; Bess-beetle

Popillius disjunctus

Dung Beetle

Onthophagus orpheus

Aphodine Dung Beetle

Atenais sp.

Soldier Beetle

Cantharis billineatus

Darkling Beetle

Alopatrus pennsylvanicus

False Darkling Beetle

Eurosternus bicolor

Asclera ruficollis

Pleasing Fungus Beetle

Trioma thoracica

Flower Weevil

Centrinaspis griseus

Eastern Tiger Swallowtail

Papilio glaucus

Falcate Orange-tip

Anthracaris midia

Eastern Tailed-blue (butterfly)

Evers comytas

Pearl Crescent

Phyciodes tharos

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Chert Quarry (continued) March 26, 1988

Carolina Satyr (butterfly)
Hemiphyllia toyabias
Silver-spotted Skipper
Epyrgus claris
Juvenal's Duskywing
Erynnis juvenalis
Common Checkered-skipper
Pyrgus communis
Polypheumus Moth (cocoon)
Antheraea polyphemus
Snapping Turtle
Chelydra serpentina
Carolina Anole
Anolis carolinensis

Ground Skink
Scincella lateralis
Great Blue Heron
Ardea herodias
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
American Swallow-tailed Kite
Elanoides forficatus
Red-bellied Woodpecker
Melanerpes carolinus
Yellow-bellied Sapsucker
Sphyrapicus varius

Pileated Woodpecker
Dryocopus pileatus
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula
Blue-gray Gnatcatcher
Poliophtila caerulea
White-eyed Vireo
Vireo griseus
Northern Parula
Parula americana

Yellow-throated Warbler
Dendroica dominica
Pine Warbler
Dendroica pinus
Northern Cardinal
Cardinalis cardinalis
White-throated Sparrow
Zonotrichia albicollis
Swamp Sparrow
Melospiza georgiana
Beaver (gnaw mark)
Castor canadensis
Wild Pig
Sus scrofa
White-tailed Deer (tracks)
Odocoileus virginianus



Anderson County

Beaverdam Creek Waterfowl Management Area and Simpson Agricultural Experiment Station

Anderson County
November 19, 1988

This visit to a popular birding site in the Piedmont of South Carolina taught the SCAN planning committee a lesson. Do not plan a trip within a few miles of either Clemson University or the University of South Carolina football stadium on the day of the Clemson/Carolina football game! Beaverdam Creek Waterfowl Management Area includes marshy areas plus small ponds and open fields, some of which are flooded for duck feeding under the current management, but were not in 1988. The day was very cold and misty, so birds were not active, and were hard to see when they did move. The site clearly had potential for good birding on a better day.

Beaverdam Creek is currently managed by the Department of Natural Resources for waterfowl. Read the signs about access. The area is currently closed to all but hunters from November 1 to February 15 each winter. Contact the DNR office in Clemson at (864) 654-1671 for up-to-date information.

Directions to Beaverdam Creek Waterfowl Management Area: From I-85 west of Greenville, take Exit 11 (SC 24/243). Drive on SC 243 west for about 2.3 miles, and then turn right onto Bradberry Road. Immediately turn right again at the stop sign (Simmons Ford Road). Continue past the solid waste recycling area on left, cross a small creek, then turn right onto Gaines Road. Park along the side of the old road bed. The access road is closed and gated.



The afternoon portion of the day was spent at Simpson Experiment Station which is a typical example of Piedmont farm country, consisting fields, small woodlands, and fence rows. It was disappointing because of the steady medium rain that moved in and continued most of the afternoon. Almost no animals were moving, and because it was so late after the first frost of the fall, little plant material was observable. Between the gaps in the rain, a few birds made an appearance.

The station is owned by Clemson University, College of Agricultural Sciences.

Directions to Simpson Experiment Station: From I-85 west of Greenville, take Exit 21 (US 178) north toward Liberty and Pickens. After about 7 miles, turn left onto County Road 231. Drive to the "T" and turn right. At the 4-way intersection, turn left onto County Road 57 west toward Pendleton. The experiment station is on the left in about 3.2 miles.



FLORA

Common Grape Fern
Botrychium dissectum
Ebony Spleenwort
Asplenium platyneuron
Loblolly Pine
Pinus taeda
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
Giant Reed
Arundo donax
Yellow Foxtail Grass
Setaria glauca
Beard Grass; Plume Grass
Eriophorum contortus
Johnson Grass
Sorghum halepense
Fringed Greenbrier
Smilax bona-nox
Sawbrier; Greenbrier
Smilax glauca
Black Willow
Salix nigra
Tag Alder
Alnus serrulata
River Birch
Betula nigra
Hackberry
Celtis occidentalis georgiana
Mistletoe
Phoradendron serotinum
Curly Dock; Sour-grass
Rumex crispus
Pokeweed; Pokeberry
Phytolacca americana
Tulip-poplar
Liriodendron tulipifera

Poor-man's-pepper
Lepidium virginicum
Sweet-gum
Liquidambar styraciflua
Rose
Rosa micrantha
Swamp Rose
Rosa palustris
Black Cherry; Wild Cherry
Prunus serotina
Mimosa; Silk-tree
Albizia julibrissin
Honey Locust
Gleditsia triacanthos
Cranesbill
Geranium carolinianum
Poison-ivy
Rhus radicans
Smooth Sumac
Rhus glabra
Mountain Holly
Ilex ambigua montana
Red Maple
Acer rubrum
Anoda
Anoda cristata
Hibiscus
Hibiscus sp.
Meadow-beauty
Rhexia sp.
Silky Dogwood
Cornus amomum
Persimmon
Diospyros virginiana
Common Henbit
Lamium amplexicaule
Trumpet Vine
Campsis radicans
Button-bush
Cephalanthus occidentalis

Cocklebur
Xanthium strumarium
Common Groundsel
Senecio vulgaris
Rabbit-tobacco
Gnaphalium obtusifolium
Black-knot
Apiosporina marbosa
Alder Cone Fungus
Taphrina alni-incanae

FAUNA

Green Lynx Spider
Peucea viridans
Carolina Mantid (egg)
Stagmomantis carolina
Chinese Mantid (egg)
Tenodera aridifolia sinensis
Hackberry Gall Psyllid (aphid)
Pachypsylla venusta
Woolly Alder Aphid
Prociphilus tessellatus
Spiny Rose Gall (wasp)
Diplolepis bicolor
Rove Beetle
Tachinus axillaris
Tachinus pallipes
Small Carrion Beetle
Catops sp.
Eastern Tent Caterpillar (egg)
Malacosoma americanum
Upland Chorus Frog (call)
Pseudacris triseriata
Painted Turtle
Chrysemys picta
Great Blue Heron
Ardea herodias
Northern Harrier
Circus cyaneus

Sharp-shinned Hawk
Accipiter striatus
Red-tailed Hawk
Buteo jamaicensis
American Kestrel
Falco sparverius
Belted Kingfisher
Ceryle alcyon
Eastern Phoebe
Sayornis phoebe
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Ruby-crowned Kinglet
Regulus calendula
Eastern Bluebird
Sialia sialis
Brown Thrasher
Toxostoma rufum
Yellow-rumped Warbler
Dendroica coronata
Northern Cardinal
Cardinalis cardinalis
Song Sparrow
Melospiza melodia
White-crowned Sparrow
Zonotrichia leucophrys
Eastern Meadowlark
Sturnella magna
Common Grackle
Quiscalus quiscula
Least Shrew
Cryptotis parva
Beaver (dam)
Castor canadensis
White-tailed Deer (remains)
Odocoileus virginianus



Bamberg County

Cathedral Bay Heritage Preserve

Bamberg County

July 23, 1988

Cathedral Bay, also known as Chitty Bay or Pond, is an excellent example of a Carolina Bay, an elliptical or oval basin found throughout the Atlantic Coastal Plain with the long axis of the ellipse oriented northwest-southeast. Soils of the bay interior differ markedly from soils outside the bay, interior soils being high in organic matter and hydric. This particular bay is a striking example of a blackwater cypress bay, with a remote, stately interior. The dominant vegetation is an almost pure stand of pond-cypress, a close relative of bald-cypress. The thick carpet of foot-tall grass adds to the cathedral-like atmosphere. The flora-fauna list does not do the site justice as a line of thunderstorms arrived soon after SCAN members did.

Directions to Cathedral Bay Heritage Preserve: From Columbia, take US 321 south through Gaston and Denmark about 60 miles to Olar. Turn left onto SC 64 toward Ehrhardt and Walterboro. After about 2 miles, stop at the Heritage Preserve sign on the right, just after a field and before tall woods. Cathedral Bay is inside the woods.



FLORA

Netted Chain Fern

Woodwardia areolata

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Loblolly Pine

Pinus taeda

Pond-cypress

Taxodium ascendens

Fringed Greenbrier

Smilax bona-nox

Sawbrier; Greenbrier

Smilax glauca

Bamboo Smilax

Smilax laurifolia

Redroot

Lachnanthes caroliniana

Water Oak

Quercus nigra

Sassafras

Sassafras albidum

Myrtle-leaved Holly

Ilex cassine myrsinifolia

Pepper-vine

Ampelopsis arborea

Wild Lettuce

Lactuca sp.

Silphium

Silphium asteriscus

FAUNA

Crab-shaped Spiny-back

Gasteracantha cancriformis

Orb-weaver

Araneus bicentenarius

Little Yellow (butterfly)

Eurema lisa

Broad-winged Hawk

Buteo platypterus

Red-tailed Hawk

Buteo jamaicensis

Northern Bobwhite

Colinus virginianus

American Crow

Corvus brachyrhynchos

Carolina Wren

Thryothorus ludovicianus

Northern Cardinal

Cardinalis cardinalis

Rivers Bridge State Park

Bamberg County

July 23, 1988

Rivers Bridge was a back-up in case it rained at Cathedral Bay, which it did. After lunch in the picnic shelter the rain stopped, allowing us to explore a pleasant river bottom area. The park superintendent was kind enough to guide his unexpected visitors to the Confederate breastworks built in a futile effort to stop Sherman's march to Columbia. Although they didn't stop Sherman, they did succeed in providing a habitat for an unusually complex riverside community.

Directions to Rivers Bridge State Park: From Columbia, take US 321 south through Gaston and Denmark about 70 miles to Sycamore in Allendale County. Turn left (east) onto SC 641 and drive about 8 miles. Just after crossing the Salkehatchie River and entering Bamberg County, watch for the sign indicating the left turn into Rivers Bridge State Park.



FLORA

Lichen
Parmotrema perforatum
Ureia sp.
Cinnamon Fern
Osmunda cinnamomea
Bracken
Pteridium aquilinum
Southern Lady Fern
Adiantum asplenoides
Sensitive Fern
Oncoclea sensibilis
Virginia Chain Fern
Woodwardia virginica
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Beak-rush
Rhynchospora sp.
Golden-club
Orontium aquaticum
Dayflower
Commelina sp.
Roseling; Spiderwort
Tradescantia rosea graminea
Southern Rein Orchid
Habenaria flava
Lizard's-tail
Saururus cernuus
American Hornbeam; Ironwood
Carpinus caroliniana
White Oak
Quercus alba
Swamp Chestnut Oak
Quercus michauxii

Heartleaf
Hexastylis arifolia
Sweet-gum
Liquidambar styraciflua
Hawthorn
Crataegus sp.
Rattlebox
Crotalaria angulata
Pencil-flower
Silystanthes biflora
Beggar-lice
Desmodium sp.
Tephrosia
Tephrosia sp.
Tread-softly
Cnidioscolus stimulosus
Croton
Croton glandulosus septentrionalis
Flowering Spurge
Euphorbia corollata
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
Boxelder
Acer negundo
Red Maple
Acer rubrum
Violet
Viola sp.
Prickly-pear
Opuntia compressa
Pennywort
Hydrocotyle sp.
Blackgum
Nyssa sylvatica

Sweet Pepperbush
Clethra alnifolia
Yellow Jessamine
Gelsemium sempervirens
Sabatia
Sabatia calycina
Ground-ivy; Ponyfoot
Dichandra carolinensis
Trumpet Vine
Campsis radicans
Dyschoriste
Dyschoriste oblongifolia
Water-willow
Justicia ovata
Partridge-berry
Mitchella repens
Bluets
Houstonia purpurea
Cardinal-flower
Lobelia cardinalis
Rabbit-tobacco
Gnaphalium obtusifolium
Silky Parchment
Sternum striatum
Gemmed Amanita
Amanita gemmata
Zoned-cap Collybia
Crinipellis zonata

FAUNA

Mottled Sand Grasshopper
Spharagemon collaris
Spur-throated Grasshopper
Melanoplus sp.
Ebony Jewelwing
Calopteryx maculata

Dingy Ground Beetle
Discoderus sp.
Tick Trefoil Leaf-miner
Pachyschelus laevigatus
Blister Beetle
Epicauta sp.
Convergent Lady Beetle
Hippodamia convergens
Gray-sided Oak Weevil
Pandeleteius hilaris
Black Swallowtail
Papilio polyxenes asterius
Eastern Tiger Swallowtail
Papilio glaucus
Eastern Musk Turtle
Sternotherus odoratus
Cattle Egret
Bulbicus ibis
Yellow-billed Cuckoo
Coccyzus americanus
Ruby-throated Hummingbird
Archilochus colubris
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus
Downy Woodpecker
Picoides pubescens
Acadian Flycatcher
Empidonax virens
Tufted Titmouse
Parus bicolor
Summer Tanager
Piranga rubra



Barnwell County

Barnwell State Park

Barnwell County

November 16, 1991

Barnwell State Park sits on the transition between inner coastal plain and sandhills habitat. It is a mildly rolling terrain that leads to interesting microhabitats. The trail around the main lake in the park provided ladies'-tresses orchids (*Spiranthes*) still in bloom in a seepage area at the base of a rich hardwood slope. A variety of frogs, a banded water snake about to shed its skin, and an abundance of dragonflies and damselflies provided interesting fauna in the midst of the varied flora.

Directions to Barnwell State Park: From Columbia, take US 321 south to Denmark (about 50 miles.) Turn right (west) onto US 78 and travel about 8 miles to Blackville. Turn left (south) on SC 3 toward Barnwell. The park is 2-3 miles on the right.



FLORA

Lichen

Leptogium burnesia
Graphis scripta
Graphis sp.
Gymnomonium acyphaliferum
Cocconogonium sp.
Bacidia schweinitzii
Brigantioaea leucosantha
Lecidea russula
Cladonia polycarpoides
Pertusaria ostiolata
Pertusaria poratuberculifera
Pertusaria subpertusa
Pertusaria texana
Hoematomma puniceum
Lecanora cypressi
Lecanora varia
Ochrolechia africana
Bulbothrix goebellii
Hypotrachyna formosana
Hypotrachyna livida
Parmelina horrescens
Parmotrema cristatum
Parmotrema mellissii
Parmotrema rampoddense
Parmotrema reticulatum
Parmotrema subindisium
Parmotrema ultralucens
Pseudoparmelia caroliniana
Buellia punctata
Physcia cloanthia
Heterodermia albicans
Heterodermia hypoleuca
Heterodermia obscurata
Pyrenula cruenta
Pyrenula sp.
Trypethelium tropicum
Trypethelium virens
Porina raphidosperma

Meadow Spikemoss
Selaginella apoda
Southern Grape Fern
Botrychium biternatum
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Southern Lady Fern
Adiantum asplenoides
Virginia Chain Fern
Woodwardia virginica
Netted Chain Fern
Woodwardia arcolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Spotted Pondweed
Potamogeton pulcher
Cane; Switch Cane
Arundinaria gigantea
Uniola Grass
Uniola laxa
Rice Cut Grass
Leersia oryzoides
Dulichium (sedge)
Dulichium arundinaceum

Arrowleaf Arum
Peltandra virginica
Jack-in-the-pulpit
Arisaema triphyllum
Duckweed
Lemna sp.
Water-meal
Wolffia papulifera
Bogmat
Wolffella floridana
Yellow-eyed-grass
Xyris sp.
Spanish-moss
Tillandsia usneoides
Soft Rush
Juncus effusus
Carrión-flower
Smilax eckrhata
Fringed Greenbrier
Smilax bona-nox

Sawbrier; Greenbrier
Smilax glauca
Red-berried Greenbrier
Smilax walteri
Bamboo Smilax
Smilax laurifolia
Indian Cucumber-root
Medeola virginiana
Fly-poison
Amianthium muscaetoxicum
Wild Yam
Dioscorea villosa
Burmannaia
Burmannaia biflora
Small Green Wood Orchid
Habenaria clavellata
Nodding Ladies'-tresses
Spiranthes cernua
Crane-fly Orchid
Tipularia discolor

Black Willow <i>Salix nigra</i>	Shadbush; Serviceberry <i>Amelanchier</i> sp.	Black Tupelo; Blackgum <i>Nyssa sylvatica sylvatica</i>	Possomhaw Viburnum <i>Viburnum nudum</i>
Wax-myrtle; Southern Bayberry <i>Myrica cerifera</i>	Wild Plum <i>Prunus americana</i>	Swamp Tupelo; Swamp Blackgum <i>Nyssa sylvatica biflora</i>	American Elderberry <i>Sambucus canadensis</i>
Swamp Bayberry <i>Myrica heterophylla</i>	Black Cherry; Wild Cherry <i>Prunus serotina</i>	Flowering Dogwood <i>Cornus florida</i>	Cardinal-flower <i>Lobelia cardinalis</i>
Mockernut Hickory <i>Carya tomentosa</i>	Carolina Cherrylaurel <i>Prunus caroliniana</i>	Sweet Pepperbush <i>Clethra alnifolia</i>	Elephant's-foot <i>Elephantopus</i> sp.
Pignut Hickory <i>Carya glabra</i>	Mimosa; Silk-tree <i>Albizia julibrissis</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Climbing Hempweed <i>Mikania scandens</i>
Tag Alder <i>Alnus serrulata</i>	American Wisteria <i>Wisteria frutescens</i>	Piedmont Azalea <i>Rhododendron canadense</i>	Marsh-fleabane <i>Pluchea camphorata</i>
White Oak <i>Quercus alba</i>	Chinese Wisteria <i>Wisteria sinensis</i>	Azalea <i>Rhododendron</i> sp.	Camphorweed <i>Pluchea</i> sp.
Post Oak <i>Quercus stellata</i>	Orange Milkwort <i>Polygala lutea</i>	Fetterbush <i>Lyonia lucida</i>	Sea-myrtle; Groundsel-tree <i>Baccharis halimifolia</i>
Overcup Oak <i>Quercus lyrata</i>	Poison Sumac <i>Rhus vernix</i>	Dog-hobble <i>Leucothoe axillaris axillaris</i>	Aster <i>Aster dumosus</i>
Live Oak <i>Quercus virginiana</i>	Poison-ivy <i>Rhus radicans</i>	Coastal Honeybells <i>Leucothoe racemosa</i>	Beggar-ticks <i>Bidens laevis</i>
Black Oak <i>Quercus velutina</i>	Winged Sumac <i>Rhus copallina</i>	Dangleberry <i>Gaylussacia frondosa</i>	Black-knot <i>Apiosporina morbosa</i>
Spanish Oak <i>Quercus falcata</i>	Tit <i>Cynilla racemiflora</i>	Sparkleberry <i>Vaccinium arboreum</i>	Tree-ear <i>Auricularia</i> sp.
Black Jack Oak <i>Quercus marilandica</i>	American Holly <i>Ilex opaca</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>	Smoky Polypore <i>Bjerkanderia</i> sp.
Water Oak <i>Quercus nigra</i>	Inkberry <i>Ilex glabra</i>	Blueberry <i>Vaccinium</i> sp.	FAUNA
Red Mulberry <i>Morus rubra</i>	Sweet Gallberry <i>Ilex coriacea</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	White-lipped Forest Snail <i>Triodopsis albolabris</i>
False Nettle <i>Boehmeria cylindrica</i>	Red Maple <i>Acer rubrum</i>	Syrax <i>Syrax</i> sp.	Lesser Mystery Snail <i>Campeloma decisum</i>
Mistletoe <i>Phoradendron serotinum</i>	Supple-jack; Rattan-vine <i>Berchemia scandens</i>	Ash <i>Fraxinus</i> sp.	Crab-shaped Spiny-back <i>Gasteracantha cancriformis</i>
Heartleaf <i>Hexastylis arifolia</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Fringe-tree <i>Chlonanthus virginicus</i>	Basilia Spider (egg) <i>Mecynogea lemniscata</i>
Polygonum <i>Polygonum</i> sp.	Muscadine; Bullace <i>Vitis rotundifolia</i>	Wild Olive <i>Osmunda americana</i>	Orb-weaver <i>Neoscona hentzi</i>
Pokeweed; Pokeberry <i>Phytolacca americana</i>	Devil's-shoestring <i>Sida rhombifolia</i>	Chinese Privet <i>Ligustrum sinense</i>	Marbled Orb-weaver <i>Araneus marmoreus</i>
Water-lily <i>Nymphaea odorata</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Arrowhead Spider <i>Verrucosa arenata</i>
Tulip-poplar <i>Liriodendron tulipifera</i>	St.-John's-wort <i>Hypericum virginicum</i>	Miterwort <i>Cynoctonum mitreola</i>	Long-jawed Orb-weaver <i>Tetragnatha elongata</i>
Sweetbay <i>Magnolia virginiana</i>	St.-John's-wort <i>Hypericum walteri</i>	Dodder <i>Cuscuta</i> sp.	Nursery-web Spider <i>Pisaurina mira</i>
Southern Magnolia <i>Magnolia grandiflora</i>	Hypericum <i>Hypericum</i> sp.	Hydrolea <i>Hydrolea quadrivalvis</i>	Jumping Spider <i>Metaphidippus</i> sp.
Redbay <i>Persea borbonia</i>	Thorny Elaegagnus <i>Elaeagnus pungens</i>	Beautyberry <i>Callicarpa americana</i>	Common Meadow Katydid <i>Orchelimum vulgare</i>
Sassafras <i>Sassafras albidum</i>	Water Loosestrife <i>Decodon verticillatus</i>	Skullcap <i>Scutellaria</i> sp.	Cattail Toothpick Grasshopper <i>Leptysma marginicollis</i>
Bloodroot <i>Sanguinaria canadensis</i>	Pale Meadow-beauty <i>Rhexia mariana</i>	Blue Water-hyssop <i>Bacopa caroliniana</i>	American Bird Grasshopper <i>Schistocerca americana</i>
Virginia-willow <i>Ita virginica</i>	Water-willow <i>Ludwigia decurrens</i>	Shade Mudflower <i>Micranthemum umbrosum</i>	Carolina Mantid <i>Stagmomantis carolina</i>
Climbing-hydrangea <i>Decumaria barbara</i>	Ludwigia <i>Ludwigia</i> sp.	Cross Vine <i>Anisostichus capreolata</i>	Green Stink Bug <i>Nezara viridula</i>
Sweet-gum <i>Liquidambar styraciflua</i>	English Ivy <i>Hedera helix</i>	Trumpet Vine <i>Campsis radicans</i>	Periodical Cicada <i>Magicicada</i> sp.
Witch-hazel <i>Hamamelis virginiana</i>	Devil's-walking-stick <i>Aralia spinosa</i>	Button-bush <i>Cephalanthus occidentalis</i>	Spiny Witch Hazel Gali (aphid) <i>Hamamelites spinosus</i>
Cocklebur <i>Agrimonia</i> sp.	Pennywort <i>Hydrocotyle</i> sp.	Richardia <i>Richardia brasiliensis</i>	Oak-apple (gall wasp) <i>Amphibolips inanis</i>
Red Chokeberry <i>Sorbus arbutifolia arbutifolia</i>	Sanicle; Snakeroot <i>Sanicula canadensis</i>	Partridge-berry <i>Mitchella repens</i>	

Barnwell State Park (continued)
November 16, 1991

Red Imported Fire Ant*Solenopsis invicta***Bald-faced Hornet***Vespa maculata***Yellowjacket***Vespa sp.***Paper Wasp (nest)***Polybia sp.***Phantom Crane fly***Bittacomorpha clavipes***Woodland Ground Beetle***Pterostichus sp.***False Bombardier Beetle***Galeritula bicolor***Crawling Water Beetle***Peltodytes semmaculatus**Peltodytes thermani***Predacious Diving Beetle***Hydroporus clypealis**Hydroporus sp.**Coptotomus interrogatus***Whirligig Beetle***Dineutus emarginatus**Dineutus assimilis**Gyrinus sp.***Red Net-winged Beetle***Dicranopterus aurora***Darkling Beetle***Ulmus punctulata***Pleasing Fungus Beetle***Trichoma sp.***Cloudless Sulphur***Phoebastria sennae eubule***Sleepy Orange (butterfly)***Eurema nicippe***Zebra (butterfly)***Heliconius charitonius tuckeri***Anglewing (butterfly)***Polygonia sp.***American Lady (butterfly)***Vanessa virginiensis***Common Buckeye (butterfly)***Junonia coenia***Confused Eusarca Moth***Eusarca confusaria***Regal Moth***Citheronia regalis***Mosquitofish***Gambusia sp.***Southern Cricket Frog***Acris gryllus***Green Treefrog***Hyla cinerea***Spring Peeper***Hyla crucifer***Squirrel Treefrog***Hyla squirella***Southern Leopard Frog***Rana sphenoccephala***Eastern Box Turtle***Terrapene carolina***Carolina Anole***Anolis carolinensis***Ground Skink***Scincella lateralis***Banded Water Snake***Nerodia fasciata***Great Blue Heron***Ardea herodias***American Woodcock***Scolopax minor***Turkey Vulture***Cathartes aura***Red-tailed Hawk***Buteo jamaicensis***Northern Bobwhite***Colinus virginianus***Belted Kingfisher***Ceryle alcyon***Red-bellied Woodpecker***Melanerpes carolinus***Northern Flicker***Colaptes auratus***Pileated Woodpecker***Dryocopus pileatus***Eastern Phoebe***Sayornis phoebe***Carolina Chickadee***Parus carolinensis***Brown Creeper***Certhia americana***Golden-crowned Kinglet***Regulus satrapa***Ruby-crowned Kinglet***Regulus calendula***American Robin***Turdus migratorius***Pine Warbler***Dendroica pinus***Red-winged Blackbird***Agelaius phoeniceus***Gray Squirrel***Sciurus carolinensis***Beaver (gnaw mark)***Castor canadensis*

Beaufort County

Hunting Island State Park

Beaufort County

October 28, 1989

Hunting Island State Park is the southernmost park on our coast. It is a classic barrier island with the front beach exposed to the Atlantic Ocean and a broad tidal creek and expansive marsh on the inland side. This visit by SCAN was shortly after Hurricane Hugo hit the state; the beach erosion caused by this and earlier storms was impressive. During this visit, high tide reached the treeline and completely covered the open beach. A long line of toppled trees and other vegetation, along with still standing trees rapidly eroding, marked the high tide line.

October brings lots of butterflies to the coast. Mating monarchs and a close relative, the queen, were seen. The queen and zebra butterflies are rarely seen further north at this time of year. A few mild winters, however, have helped the zebra increase its range north and inland. A rich maritime forest helped to add to the variety of species seen.

Directions to Hunting Island State Park: From I-95 south of Walterboro, take exit 42 (US 21) south past Yemassee toward Beaufort. US 21 will join US ALT-17 for about 18 miles, then joins US 17 (north) for 11 miles. At Gardens Corner, make the right turn toward Beaufort. In Beaufort, follow Business 21 over the bridge to St. Helena Island. Continue on US 21 all the way to Hunting Island. The Visitors' Center is at the second left turn after reaching Hunting Island; follow the signs.



(Photo by L. Greenlee)

Mating monarch butterflies, *Danaus plexippus*.



FLORA

Long-leaf Pine

Pinus palustris

Slash Pine

Pinus elliotii

Southern Red-cedar

Juniperus silicicola

Common Cat-tail

Typha latifolia

Purple-top

Tridens flavus

Sand Grass

Triplasis purpurea

Uniola Grass

Uniola laxa

Sea Oats

Uniola paniculata

Coastal Dropseed

Sporobolus virginicus

Crowfoot Grass

Dactyloctenium aegyptium

Finger Grass

Chloris petraea

Cord Grass

Spartina patens

Smooth Cord Grass

Spartina alterniflora

Dune Sandbur

Cenchrus tribuloides

Opilismenus (grass)

Opilismenus setarius

Baggy-knees Grass

Sacciolepis striata

Seaside Panic Grass

Panicum amarum

Switch Grass

Panicum virgatum

Broomsedge

Andropogon virginicus

Indian Grass

Sorghastrum sp.

Fimbristylis (sedge)

Fimbristylis spodiacea

Nut-rush

Scleria triglomerata

Saw Palmetto

Serenoa repens

Dwarf Palmetto

Sabal minor

Cabbage Palmetto

Sabal palmetto

Spanish-moss

Tillandsia usneoides

Black Needle Rush

Juncus roemerianus

Fringed Greenbrier

Smilax bona-nox

Spanish-bayonet

Yucca aloifolia

Three Birds Orchid

Triphora trianthophora

Wax-myrtle; Southern Bayberry

Myrica cerifera

Live Oak

Quercus virginiana

False Nettle

Boehmeria cylindrica

Mexican-tea

Chenopodium ambrosioides

Seabeach Orach

Atriplex arenaria

Sea-blight

Suaeda linearis

Saltwort

Batis maritima

Iresine

Iresine rhizomatosa

Redbay

Persea borbonia

Sweet-gum

Liquidambar styraciflua

Dewberry

Rubus trivialis

Bladderpod

Glottidium vesicarium

Wild Indigo

Indigofera caroliniana

Coral-bean

Erythrina herbacea

Wood-sorrel

Oxalis dillenii

Hercules'-club

Zanthoxylum clava-herculis

Silverleaf Croton

Croton punctatus

Three-seeded Mercury

Acalypha sp.

Spurge

Euphorbia ammannioides

Spurge

Euphorbia polygonifolia

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

Yaupon

Ilex vomitoria

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Rockrose

Helianthemum corymbosum

Prickly-pear

Opuntia compressa

Devil-joint

Opuntia drummondii

Devil's-walking-stick

Aralia spinosa

Dune Pennywort

Hydrocotyle bonariensis

Sea-lavender

Limonium carolinianum

Wild Olive

Osmanthus americana

Milkweed-vine

Cynanchum palustre

Verbena

Verbena scabra

Fog-fruit

Lippia nodiflora

Beautyberry

Callicarpa americana

Blue-curtis

Trichostema dichotomum

Wood Sage; Germander

Teucrium canadense

Ground-cherry

Physalis viscosa maritima

Gerardia

Agalinis tenella

Trumpet Vine

Campsis radicans

Richardia

Richardia brasiliensis

Trailing Bluets

Houstonia procumbens

Bedstraw; Purple-head

Galium hispidulum

Creeping Cucumber

Melothria pendula

Marsh-elder

Iva frutescens

Beach-elder

Iva imbricata

Fireweed

Erechtites hieracifolia

Thistle

Carduus sp.

Dog-fennel

Eupatorium capillifolium

Climbing Hempweed

Mikania scandens

Camphorweed

Pluchea purpurascens

False-willow

Baccharis angustifolia

Groundsel-tree

Baccharis glomeruliflora

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

Salt-marsh Aster

Aster tenuifolius

Heterotheca

Heterotheca nervosa nervosa

Camphorweed

Heterotheca subaxillaris

Sea Ox-eye

Borrichia frutescens

Carbon-balls (fungus)

Daldinia concentrica

Bear's-head Tooth

Hericium coralloides

Artist's Conk

Ganoderma applanatum

Chicken Mushroom

Laetiporus sulphureus

Crowded Parchment

Stereum complicatum

Meadow Mushroom

Agaricus campestris

Citron Amanita

Amanita citrina

White Fiber-head

Inocybe geophylla

Emetic Russula

Russula emetica

Yellow Oyster-mop

Trocholomopsis sulfureoides

FAUNA

Sea-whip

Leptogorgia virgulata

Rubbish Bryozoan

Alcyonidium huxleyi

Marsh Periwinkle; Mud Snail

Littorina irrorata

Hunting Island State Park (continued)

October 28, 1989

Knobbed Whelk (shell)
Busycon carica
Sea-whip Barnacle
Ctenopora galeata
Common Blue Crab
Callinectes sapidus
Ghost Crab
Ocypode quadrata
Fiddler Crab
Uca sp.
Predacious Diving Beetle
Agabus punctatus
Water Scavenger Beetle
Tropisternus lateralis nimbatus
Hydrochara savor
Berosus infusatus
Palmetto Tortoise Beetle
Hemiphaedusa cyanea
Clouded Sulphur
Colias philodice
Cloudless Sulphur
Phoebastria sennae eubule
Little Yellow (butterfly)
Eurema lisa
Sleepy Orange (butterfly)
Eurema nicippe
Gray Hairstreak
Styrmon melinus
American Snout (butterfly)
Libythea carinatus
Gulf Fritillary
Agraulis vanillae
Zebra (butterfly)
Heliconius charitonius tuckeri
Phaon Crescent
Phyciodes phaon
Common Buckeye (butterfly)
Junonia coenia
Monarch (butterfly)
Danaus plexippus
Queen (butterfly)
Danaus gilippus
Long-tailed Skipper
Urbanus proteus
Southern Flannel Moth (larva)
Megalopyge opercularis
Polyphemus Moth (cocoon)
Antheraea polyphemus
Pink-spotted Hawk Moth
Agrius cingulatus
Bella Moth
Utetheisa bella
Virginia Ctenucha Moth
Ctenucha virginica
American Alligator
Alligator mississippiensis
Carolina Anole
Anolis carolinensis
Six-lined Racerunner
Cnemidophorus sexlineatus
Glass Lizard
Ophisaurus sp.
Black Racer
Coluber constrictor
Common Loon
Gavia immer
Brown Pelican
Pelecanus occidentalis
Double-crested Cormorant
Phalacrocorax auritus
Little Blue Heron
Egretta caerulea
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Hooded Merganser
Lophodytes cucullatus
Clapper Rail
Rallus longirostris
Semipalmated Plover
Charadrius semipalmatus
Black-bellied Plover
Pluvialis squatarola
Willet
Catoptrophorus semipalmatus
Dunlin
Calidris alpina
Sanderling
Calidris alba
Semipalmated Sandpiper
Calidris pusilla
Least Sandpiper
Calidris minutilla
Ruddy Turnstone
Arenaria interpres
Laughing Gull
Larus atricilla
Ring-billed Gull
Larus delawarensis
Herring Gull
Larus argentatus
Great Black-backed Gull
Larus marinus
Royal Tern
Sterna maxima
Casplan Tern
Sterna caspia
Black Skimmer
Rhyncops niger
Osprey
Pandion haliaetus
American Kestrel
Falco sparverius
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus
Yellow-bellied Sapsucker
Sphyrapicus varius
Pileated Woodpecker
Dryocopus pileatus
Tree Swallow
Tachycineta bicolor

Blue Jay
Cyanocitta cristata
Carolina Chickadee
Parus carolinensis
Brown-headed Nuthatch
Sitta pusilla
Ruby-crowned Kinglet
Regulus calendula
Gray Catbird
Dumetella carolinensis
Northern Mockingbird
Mimus polyglottos
Brown Thrasher
Toxostoma rufum
White-eyed Vireo
Vireo griseus
Yellow-rumped Warbler
Dendroica coronata

Pine Warbler
Dendroica pinus
Northern Cardinal
Cardinalis cardinalis
Red-winged Blackbird
Agelaius phoeniceus
Common Grackle
Quiscalus quiscula
Boat-tailed Grackle
Quiscalus major
Virginia Opossum
Didelphis virginiana
Gray Squirrel
Sciurus carolinensis
Raccoon
Procyon lotor
White-tailed Deer
Odocoileus virginianus

Thistle, *Carduus sp.*

(Photo by A. Ciegler)

Pinckney Island National Wildlife Refuge

Beaufort County

February 22, 1986

Pinckney Island is a large island just inland from Hilton Head. The entire island plus several smaller islands across Mackey's Creek make up the wildlife refuge. Pinckney Island, named for Charles Pinckney, a signer of the U.S. constitution and early owner of the island, makes up the largest portion of the refuge, and the only part readily accessible by automobile. It has tidal marsh, maritime forest, open fields and several freshwater ponds. The bird population, especially during the winter and migration seasons is usually quite diverse. The freshwater ponds attract a lot of mammals, amphibians and reptiles as well. There were few developed trails when SCAN visited in 1986. The addition of many miles of trails since then should make the exploring of this refuge even more rewarding. It is a classic tidewater habitat.

Directions to Pinckney Island National Wildlife

Refuge: From I-95 near Ridgeland, take exit 21, US 278, east toward Hilton Head. Follow the signs; US 278 makes many twists and turns. After passing the junction with SC 46 at Bluffton, it is about 4 miles to the bridge over Mackey's Creek. Ahead you will see the higher bridge over Skull Creek and the Intracoastal Waterway. Between the bridges is the entrance on the north side of the highway. Approaching Hilton Head, it is the last left turn before crossing the bridge to Hilton Head. Leaving Hilton Head it is the first right turn after coming over the bridge from Hilton Head.

**FLORA****Spleenwort***Asplenium platyneuron***Resurrection Fern***Polypodium polypodioides***Long-leaf Pine***Pinus palustris***Eastern Red-cedar***Juniperus virginiana***Common Cat-tail***Typha latifolia***Cane; Switch-cane***Arundinaria gigantea***Purple Top***Tridens flavus***Broomsedge***Andropogon virginicus***Dwarf Palmetto***Sabal minor***Cabbage Palmetto***Sabal palmetto***Spanish-moss***Tillandsia usneoides***Fringed Greenbriar***Smilax bona-nox***Spanish-bayonet***Yucca aloefolia***Narcissus***Narcissus* sp.**Poplar; Cottonwood***Populus* sp.**Wax-myrtle; Southern Bayberry***Myrica cerifera***Live Oak***Quercus virginiana***Mistletoe***Phoradendron serotinum***Glosswort***Salicornia bigelovii***Perennial Glasswort***Salicornia virginica***Saltwort***Batis maritima***Chickweed***Stellaria media***Redbay***Persea borbonia***Corydalis***Corydalis micrantha australis***Tansy Mustard***Descurainia pinnata***Sweet-gum***Liquidambar styraciflua***Dewberry***Rubus trivialis***Rattlebox***Crotalaria spectabilis***Bladderpod***Glottidium vesicarium***Wild Geranium***Geranium carolinianum***Hercules' club***Zanthoxylum clava-herculis***Chinaberry***Melia azedarach***Winged Sumac***Rhus copallina***Yaupon***Ilex vomitoria***Red Maple***Acer rubrum***Red Buckeye***Aesculus pavia***St.-Andrews-Cross***Hypericum hypericoides***Violet***Viola* sp.**Ludwigia***Ludwigia alternifolia***Devils-walking-stick***Aralia spinosa***Centella***Centella asiatica***Sea-lavender***Limonium* sp.**Yellow Jessamine***Gelsemium sempervirens***Polypremum***Polypremum procumbens***Brazilian Vervain***Verbena brasiliensis***Fog-fruit***Lippia nodiflora***Blue-curly***Trichostema dichotomum***Common Henbit***Lamium amplexicaule***Bacopa***Bacopa monnieri***Woolly Mullein***Verbascum thapsus***Cross Vine***Anisostichus caprolata*

Pinckney Island National Wildlife Refuge (continued)

February 22, 1986

Trumpet Vine	Carolina Mantid (egg mass)
<i>Campsis radicans</i>	<i>Stagmomantis carolina</i>
Trailing Blueets	Potter Wasp (nest)
<i>Houstonia procumbens</i>	<i>Eumenes fraterna</i>
False-willow	Goldenrod Ball Gail Fly
<i>Baccharis angustifolia</i>	<i>Eurusa solidaginis</i>
Sea-myrtle; Groundsel-tree	Goldenrod Bunch Gail Midge
<i>Baccharis halimifolia</i>	<i>Rhopalomyia solidaginis</i>
Sea Ox-eye	Cloudless Sulphur
<i>Borrichia frutescens</i>	<i>Phoebis senaeae eubule</i>
Shaggy Ink Cap	Snout Butterfly
<i>Coprinus comatus</i>	<i>Libytheana bachmannii</i>
Common Split-gill	Southern Flannel Moth
<i>Schizophyllum commune</i>	<i>Megalopyga opercularis</i>
Beaked Earthstar	Green Treefrog
<i>Gastromyces pectinatus</i>	<i>Hyla cinerea</i>
Mustard-yellow Polypore	Carolina Anole
<i>Phellinus gilvus</i>	<i>Anolis carolinensis</i>
Chocolate Tube Slime	Ground Skink
<i>Stemonitis splendens</i>	<i>Scincella laterale</i>
FAUNA	Pied-billed Grebe
	<i>Podilymbus podiceps</i>
Elongate Cannibal Snail	Double-crested Cormorant
<i>Euglandina rosea</i>	<i>Phalacrocorax auritus</i>
Writing Spider (egg sac)	Great Egret
<i>Argiope aurantia</i>	<i>Casmerodius albus</i>
Wolf Spider	Bufflehead
<i>Lycosa sp.</i>	<i>Bucephala albeola</i>
	Red-breasted Merganser
	<i>Mergus serrator</i>

American Coot	Gray Catbird
<i>Fulica americana</i>	<i>Dumetella carolinensis</i>
Ring-billed Gull	Northern Mockingbird
<i>Larus delawarensis</i>	<i>Mimus polyglottos</i>
Turkey Vulture	Yellow-rumped Warbler
<i>Cathartes aura</i>	<i>Dendroica coronata</i>
American Kestrel	Pine Warbler
<i>Falco sparverius</i>	<i>Dendroica pinus</i>
Red-bellied Woodpecker	Northern Cardinal
<i>Melanerpes carolinus</i>	<i>Cardinalis cardinalis</i>
Northern Flicker	Rufous-sided Towhee
<i>Colaptes auratus</i>	<i>Pipilo erythrophthalmus</i>
Yellow-bellied Sapsucker	Savannah Sparrow
<i>Sphyrapicus varius</i>	<i>Passerculus sandwichensis</i>
Eastern Phoebe	White-throated Sparrow
<i>Sayornis phoebe</i>	<i>Zonotrichia albicollis</i>
Blue Jay	Red-winged Blackbird
<i>Cyanocitta cristata</i>	<i>Agelaius phoeniceus</i>
American Crow	Purple Finch
<i>Corvus brachyrhynchos</i>	<i>Carpodacus purpureus</i>
Tufted Titmouse	Virginia Opossum
<i>Parus bicolor</i>	<i>Didelphis virginiana</i>
Carolina Chickadee	Gray Fox
<i>Parus carolinensis</i>	<i>Urocyon cinereoargenteus</i>
Carolina Wren	Raccoon
<i>Thryothorus ludovicianus</i>	<i>Procyon lotor</i>
Marsh Wren	River Otter
<i>Cistothorus palustris</i>	<i>Lutra canadensis</i>
Ruby-crowned Kinglet	Bobcat
<i>Regulus calendula</i>	<i>Felis rufus</i>
Eastern Bluebird	White-tailed Deer
<i>Sialia sialis</i>	<i>Odocoileus virginianus</i>

Spring Island

Beaufort County

February 27, 1993

Spring Island in Beaufort County is surrounded by tidewater, but it includes a pond with lots of bird life, a natural waterfall, and the ruins of the original tabby-built (tabby uses coquina shells) plantation house. Spring Island Development Company hired a naturalist, Bruce Lampright, to select environmentally sensitive areas to be protected on the island in addition to establishing guidelines for individual lot development. Owners can't cut down a tree without Bruce's permission, not even if the owner is rich and famous! One of the highlights of the winter woods on the island is a huge concentration of *Trillium cuneatum* and the opportunity to see fox squirrels and wintering birds. Tree swallows were a bird highlight for this trip. Bruce Lampright's guidance on this trip added greatly to its enjoyment and was highly appreciated.

Privately owned by Spring Island Development Company. Advance permission needed to visit.

Directions to Spring Island: From I-95 between Walterboro and Ridgeland, take exit 28 (Coosawhatchie-Hilton Head) and follow SC 462 east, merging with US 278 after about 10 miles. Follow US 278 for 8 miles more, then turn left onto SC 170 by the Beaufort-Jasper Career Education Center. Follow SC 170 about 3.5 miles to the Callawassie Store/BP Station, and turn right at the store. Go 1.2 miles to the gatehouse at Callawassie Island. Guard at the gate can direct you to the Spring Island Reception Center; advance arrangements must be made.



(Photos by A. Ciegler)

Spring Island has beautiful ponds and marshes.

Spring Island (continued)

February 27, 1993

Common Henbit

Lamium amplexicaule

Woolly Mulllein

Verbascum thapsus

Cross Vine

Anisostichus cupreolata

Partridge-berry

Mitchella repens

Trailing Blueets

Houstonia procumbens

Japanese Honeysuckle

Lonicera japonica

American Elderberry

Sambucus canadensis

Elephant's-foot

Elephantopus sp.

Groundsel-tree

Baccharis glomeruliflora

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

Bearsfoot

Polymnia uveallia

Sea Ox-eye

Borrchia frutescens

FAUNA

Marsh Periwinkle; Mud Snail

Limoria irrorata

Ribbed Mussel

Geukensia demissa

Eastern Oyster (shell)

Crassostrea virginica

Mud Crab

Panopeus sp.

Mud Fiddler Crab

Uca pugnax

Leafy Oak Gall (wasp)

Andricus foliatus

Conical Woolly Oak Gall (wasp)

Andricus perplexus

Small Bullet Oak Gall (wasp)

Andricus mazzei

Horned Oak Gall (wasp)

Andricus clarigerus

Wool-bearing Gall (wasp)

Andricus lanigera

Stem Gall (wasp)

Plagiostrochus sp.

Conical Oak Gall (wasp)

Callirhytis conferta

Bullet Gall (wasp)

Cynips sp.

Oak Leaf Gall (wasp)

Belenocnema fossoria

Marginal Oak Leaf Gall (wasp)

Dryophanta sp.

Pedunculate Ground Beetle

Ardistomis sp.

Seed-eating Ground Beetle

Anatra sp.

Notch-mouthed Ground Beetle

Dicelcus elongatus

Small Carrion Beetle

Catops sp.

Hickory Girdler Beetle (sign)

Oncideres cingulatus

Marbled Salamander

Ambystoma opacum

Mole Salamander

Ambystoma talpoideum

Southern Leopard Frog

Rana sphenoccephala

Cern Snake

Elaphe guttata

Common Loon

Gavia immer

Pied-billed Grebe

Podilymbus podiceps

Anhinga; Snakebird

Anhinga anhinga

Double-crested Cormorant

Phalacrocorax auritus

Tricolored Heron

Egretta tricolor

Snowy Egret

Egretta thula

Great Egret

Casmerodius albus

Great Blue Heron

Ardea herodias

Bufflehead

Bucephala albeola

Sora

Porzana carolina

Common Moorhen

Gallinula chloropus

Killdeer

Charadrius vociferus

Willet

Catoptrophorus semipalmatus

Greater Yellowlegs

Tringa melanoleuca

Laughing Gull

Larus atricilla

Bonaparte's Gull

Larus philadelphia

Ring-billed Gull

Larus delawarensis

Forster's Tern

Sterna forsteri

Turkey Vulture

Cathartes aura

Black Vulture

Coragyps atratus

Red-tailed Hawk

Buteo jamaicensis

Osprey

Pandion haliaetus

Northern Bobwhite

Colinus virginianus

Wild Turkey

Meleagris gallopavo

Mourning Dove

Zenaida macroura

Belted Kingfisher

Ceryle alcyon

Red-bellied Woodpecker

Melanerpes carolinus

Northern Flicker

Colaptes auratus

Downy Woodpecker

Picoides pubescens

Yellow-bellied Sapsucker

Sphyrapicus varius

Eastern Phoebe

Sayornis phoebe

Tree Swallow

Tachycineta bicolor

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

White-breasted Nuthatch

Sitta carolinensis

Carolina Wren

Thryothorus ludovicianus

Ruby-crowned Kinglet

Regulus calendula

Eastern Bluebird

Sialia sialis

Hermit Thrush

Catharus guttatus

American Robin

Turdus migratorius

Northern Mockingbird

Mimus polyglottos

European Starling

Sturnus vulgaris

Yellow-rumped Warbler

Dendroica coronata

Pine Warbler

Dendroica pinus

Palm Warbler

Dendroica palmarum

Northern Cardinal

Cardinalis cardinalis

Song Sparrow

Melospiza melodia

Chipping Sparrow

Spizella passerina

Dark-eyed Junco

Junco hyemalis

White-throated Sparrow

Zonotrichia albicollis

Red-winged Blackbird

Agelaius phoeniceus

Boat-tailed Grackle

Quiscalus major

American Goldfinch

Carduelis tristis

Virginia Opossum (sign)

Didelphis virginiana

Rabbit (scat)

Sylvilagus sp.

Gray Squirrel

Sciurus carolinensis

Eastern Fox Squirrel

Sciurus niger

Raccoon (tracks)

Procyon lotor

River Otter

Lutra canadensis

White-tailed Deer

Odocoileus virginianusBloodroot, *Sanguinaria canadensis*.

(Photo by L. Greenlee)

Victoria Bluff Heritage Preserve

Beaufort County

February 22, 1992

Victoria Bluff Heritage Preserve was purchased to preserve an example of the longleaf pine/saw palmetto community in South Carolina. This community is much more common in Georgia and Florida, but very rare in South Carolina. There are also a number of lime sinks on the property. Among the notable plants seen were whisk fern (very primitive), pondspice, the rare needle palm along with the other three native palm species, and rare species of *Lyonia* and *Vaccinium*. There were several species of frogs, many birds -- including a flock of bobwhites who marched across the road to bid the group farewell -- and other uncommon plants as well.

Directions to Victoria Bluff Heritage Preserve: From I-95 near Ridgeland, take exit 21, US 278, east toward Hilton Head. Follow the signs; US 278 takes many twists and turns. After passing the junction with SC 46 at Bluffton, go 1.5 miles further and turn left onto County Road 744 where the signs point to "Coastal Zone Education Center" and "Waddell Mariculture Center." Go 2.7 miles north to a power line right-of-way where some trails begin, or stop at the campground for other trails.



FLORA

Lichen

Leptogium cyaneescens
Graphis scripta
Graphis beaumontii
Graphis afzelii
Graphis sp.
Thelotrema monosporum
Thelotrema sp.
Coenogonium interplexum
Coenogonium moniliforme
Bacidia phacodes
Bacidia incompta
Bacidia suffusa
Bacidia sp.
Leptogium austroamericanum
Cladonia calycanthae
Cladonia capitata
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cylindrica
Cladonia didyma
Cladonia fucata
Cladonia ochrochlora
Pertusaria leucostoma
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria propinqua
Pertusaria texana
Pertusaria sinuomexicana
Pertusaria sp.
Haematomma puniceum
Lecanora cupressi
Lecanora pallida

Lecanora varia
Bulbothrix confederata
Bulbothrix gorbeltii
Hypotrachyna livida
Parmelia galbana
Parmelia horrescens
Parmeliopsis subambigua
Parmotrema perforatum
Parmotrema rampoddense
Parmotrema reticulatum
Parmotrema robustum
Parmotrema tinctorum
Pseudoparmelia caroliniana
Umea strigosa
Buellia punctata
Buellia conspurans
Buellia sp.
Dirinaria picta
Physcia americana
Physcia millegrana
Heterodermia albicans
Heterodermia obscurata
Pyxine caesiopruinosa
Phaeophyscia pusillioidea
Pyrenula cruenta
Mycoporum pyrenocarpum
Arthothelium taediosum
Arthothelium sp.
Trypethelium mastoideum
Trypethelium vires
Floating Liverwort
Ricciocarpus natans
Riccia fluitans
Whiskfern
Psilotum nudum

Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Virginia Chain Fern
Woodwardia virginica
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Slash Pine
Pinus elliotti
Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Cane; Switch Cane
Arundinaria gigantea
Spike Grass
Uniola sessiliflora
Oplismenus (grass)
Oplismenus setarius
Nut-rush
Scleria sp.
Sedge
Carex sp.
Saw Palmetto
Serenoa repens

Dwarf Palmetto
Sabal minor
Cabbage Palmetto
Sabal palmetto
Needle Palm
Rhapidophyllum hystrix
Duckweed
Lemna sp.
Spanish-moss
Tillandsia usneoides
Soft Rush
Juncus effusus
Fringed Greenbrier
Smilax bona-nox
Bamboo Smilax
Smilax laurifolia
Sarsaparilla-vine
Smilax pumila
Spoonleaf Yucca
Yucca filamentosa filamentosus
Southern Twayblade
Listera australis
Crane-fly Orchid
Tipularia discolor
Lizard's-tail
Saururus cernuus
Willow
Salix sp.
Wax-myrtle; Southern Bayberry
Myrica cerifera
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra

Victoria Bluff Heritage Preserve (continued)
February 22, 1992

Live Oak

Quercus virginiana

Southern Red Oak; Spanish Oak

Quercus falcata falcata

Water Oak

Quercus nigra

Laurel Oak

Quercus laurifolia

False Nettle

Boehmeria cylindrica

Sweetbay

Magnolia virginiana

Southern Magnolia

Magnolia grandiflora

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Pondspice

Litsea aestivalis

Sweet-gum

Liquidambar styraciflua

Witch-hazel

Hamamelis virginiana

Poison-ivy

Rhus radicans

American Holly

Ilex opaca

Dabson; Cassena

Ilex cassine cassine

Yaupon

Ilex vomitoria

Inkberry

Ilex glabra

Sweet Gallberry

Ilex coriacea

Red Maple

Acer rubrum

Southern Sugar Maple

Acer saccharum floridanum

Muscadine; Bullace

Vitis rotundifolia

Loblolly-bay

Gordonia lasianthus

St.-Andrew's-cross

Hypericum hypericoides

Bog White Violet

Viola lanceolata

Devil-Joint

Opuntia drummondii

Peanywort

Hydrocotyle sp.

Swamp Tupelo; Swamp Blackgum

Nyssa sylvatica biflora

Sweet Pepperbush

Clethra alnifolia

Indian-pipe

Monotropa uniflora

Staggerbush

Lyonia ferruginea

Fetterbush

Lyonia lucida

Dangleberry

Gaylussacia frondosa

Sparkleberry

Vaccinium arboreum

Black Highbush Blueberry

Vaccinium atrococcum

Blueberry

Vaccinium myrsinites

Persimmon

Diospyros virginiana

Horse-sugar; Sweetleaf

Symplocos tinctoria

Wild Olive

Osmanthus americana

Yellow Jessamine

Gelsemium sempervirens

Cross Vine

Anisostichus capreolata

Butten-bush

Cephalanthus occidentalis

Partridge-berry

Mitchella repens

Trailing Bluets

Houstonia procumbens

Vanilla-plant

Trillia odoratissima

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

Carbon-balls (fungus)

Daldinia sp.

Red Russula

Russula sp.

FAUNA

Basilica Spider

Mecynogea lemniscata

Brownish-gray Fishing Spider

Dolomedes tenebrosus

Nursery-web Spider

Pisaurina mira

Florida Harvester Ant

Pogonomyrmex badius

Florida Carpenter Ant

Camponotus abdominalis

Bald-faced Hornet

Vespa maculata

Woodland Ground Beetle

Odontoxys sp.

Predacious Diving Beetle

Agabus johannis

Water Scavenger Beetle

Hydrotus melaneus

Enochrus ochraceus

Large Rove Beetle

Staphylinus maxillosus

Hister Beetle

Epiurus pulicarius

Hister depurator

Platysoma carolinus

Passalus; Bess-beetle

Popillius disjunctus

Earth-boring Dung Beetle

Geotrupes egeriei

Darkling Beetle

Uloa imberbis

Darkling Beetle (larva)

Alobates pennsylvanica

Convergent Lady Beetle

Hippodamia convergens

Cloudless Sulphur

Phoebis sennae eubule

Salt Marsh Moth (cocoon)

Estigmene acrea

Spring Peeper

Hyla crucifer

Pine Woods Treefrog

Hyla femoralis

Little Grass Frog

Limnaeodius ocularis

Brimley's Chorus Frog

Pseudacris brimleyi

Bullfrog

Rana catesbiana

Carolina Anole

Anolis carolinensis

Ground Skink

Scincella lateralis

Common Loon

Gavia immer

Brown Pelican

Pelecanus occidentalis

Double-crested Cormorant

Phalacrocorax auritus

Bonaparte's Gull

Larus philadelphia

Turkey Vulture

Cathartes aura

Red-shouldered Hawk

Buteo lineatus

Osprey

Pandion haliaetus

Northern Bobwhite

Colinus virginianus

Mourning Dove

Zenaidura macroura

Red-bellied Woodpecker

Melanerpes carolinus

Northern Flicker

Colaptes auratus

Downy Woodpecker

Picoides pubescens

Yellow-bellied Sapsucker

Sphyrapicus varius

Pileated Woodpecker

Dryocopus pileatus

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

Carolina Wren

Thryothorus ludovicianus

Ruby-crowned Kinglet

Regulus calendula

Brown Thrasher

Toxostoma rufum

White-eyed Vireo

Vireo griseus

Solitary Vireo

Vireo solitarius

Black-and-white Warbler

Mniotilta varia

Yellow-rumped Warbler

Dendroica coronata

Yellow-throated Warbler

Dendroica dominica

Pine Warbler

Dendroica pinus

Rufous-sided Towhee

Pipilo erythrophthalmus

Eastern Mole (sign)

Scalopus aquaticus

White-tailed Deer (tracks, remains)

Odocoileus virginianusPondspice, *Litsea aestivalis*.

(Photo by L. Smith)



Berkeley County

Francis Marion National Forest

Berkeley County

June 22, 1991

Three different locations, showing three distinctly different habitats, were visited in Francis Marion National Forest. The group saw a diversity of Low Country flora and fauna, some of which are rare or endangered. The first area, known as the Honey Hill Lime Sinks, contained limestone sinks (ponds in limestone depressions.) Here the alkaline soil fields less common plants such as pondspice and southern spicebush. Dragonflies were abundant. The next site was a pine savanna with abundant pitcher plants and other wet area plants. The last site, a pond-cypress savanna, featured several species of native orchids. Not even Hurricane Hugo damage could hide the beauty of these areas.

Directions to Francis Marion National Forest:

From Moncks Corner, follow US ALT-17 about 36 miles north to Jamestown. Turn right onto SC 45 heading east to Honey Hill, another 10.5 miles. After reaching the crossroads in Honey Hill (SC 8-654), continue on SC 45 another 0.4 mile to Old Cemetery Road, the second dirt road to the left. Fork left here and go approximately 0.9 mile to the old cemetery. Turn left at the cemetery and park on the right. The lime sinks are a short distance east.



Francis Marion
National Forest



FLORA

Lichen

Collemia nigrescens
Lobaria sp.
Graphis scripta
Graphis nitida
Graphis mosquitensis
Graphis elegans
Graphis sp.
Glyphis cicuticosa
Phaeographis dendritica
Leptogium austroamericanum
Baeomyces fungoides
Cladonia evansii
Cladonia balfourii
Cladonia capitata
Cladonia didyma
Cladonia leporina
Cladonia verticillata
Pernisaria copiosa
Pernisaria ostiolata
Pernisaria paratuberculifera
Pernisaria trachythallina
Pernisaria texana
Haematomma ochrophaeum

Lecanora hageni
Lecanora cupressi
Lecanora varia
Ochrolechia africana
Ochrolechia farinacea
Phlyctis sp.
Bulbothrix confederata
Bulbothrix goebeli
Hypotrachyna livida
Parmotrema dilatatum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampoddense
Parmotrema subisidiosum
Parmotrema subinctorium
Parmotrema tinctorum
Parmotrema xanthinum
Pseudoparmelia caroliniana
Ramalina americana
Usnea strigosa
Buellia punctata
Physcia millegrana
Heterodermia albicans
Heterodermia granulifera
Heterodermia hypoleuca

Heterodermia obscurata
Heterodermia casarettiana
Phaeophyscia adiantola
Phaeophyscia ciliata
Phaeophyscia imbricata
Melanthea cruenta
Trypetium tropicum
Trypetium virens
Southern Bog Clubmoss
Lycopodium adpressum
Cinnamon Fern
Osmunda cinnamomea
Bracken
Pteridium aquilinum
Virginia Chain Fern
Woodwardia virginica
Netted Chain Fern
Woodwardia areolata
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum

Pond-cypress
Taxodium ascendens
Arrowhead; Duck-potato
Sagittaria graminea graminea
White-bracted Sedge
Dichromena latifolia
Umbrella-grass
Fuirena squarrosa
Brak-rush
Rhynchospora macrostachya
Yellow-eyed-grass
Xyris sp.
Pipewort; Hatpins
Eriocaulon decangulare
Bog-buttons
Lachnocaulon anceps
Dayflower
Commelina communis
Bamboo Smilax
Smilax laurifolia
False Asphodel
Tofieldia racemosa
Colic-root; Stargrass
Aletris aurea
Redroot
Lachnanthes caroliniana

Francis Marion National Forest (continued)

June 22, 1991

Flag <i>Iris tridentata</i>	Groundnut <i>Apios americana</i>	Fetterbush <i>Lyonia lucida</i>	Glider <i>Tramea</i> sp.
Burmannia <i>Burmannia biflora</i>	Dollar-weed <i>Rhynchosia reniformis</i>	Staggerbush <i>Lyonia mariana</i>	Tiger Beetle <i>Cicindela punctulata</i>
Rose Pogonia <i>Pogonia ophioglossoides</i>	Milk-pea <i>Galactia volubilis</i>	Dangleberry <i>Gaylussacia frondosa</i>	Predacious Diving Beetle <i>Graphoderus liberus</i>
Spreading-pogonia <i>Cicistes divaricata</i>	Polygala <i>Polygala incarnata</i>	Low-bush Blueberry <i>Vaccinium tenellum</i>	Whirligig Beetle <i>Dineutus carolinus</i>
Grass-pink <i>Calypogon pulchellus</i>	Orange Milkwort <i>Polygala lutea</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>	Common Tumblebug <i>Canthon laevis</i>
Green Adder's-mouth <i>Molais unifolia</i>	Polygala <i>Polygala ramosa</i>	Creeping Blueberry <i>Vaccinium crassifolium</i>	Flower Scarab Beetle <i>Trigonopeltastes delta</i>
Wax-myrtle; Southern Bayberry <i>Myrica cerifera</i>	Pine-barren Milkwort <i>Polygala cymosa</i>	Persimmon <i>Diospyros virginiana</i>	Horned Fungus Beetle <i>Bolitotherus cornutus</i>
Mockernut Hickory <i>Carya tomentosa</i>	Flowering Spurge <i>Euphorbia corollata</i>	Storax; Snowbell <i>Syrax americana</i>	False Blister Beetle <i>Oxasis</i> sp.
Allegheny Chinquapin <i>Cassia pumila</i>	Tit <i>Cyrilla racemiflora</i>	Sandhill Milkweed <i>Asclepias humistrata</i>	Oval Leaf Beetle <i>Rhabdopterus</i> sp.
Post Oak <i>Quercus stellata</i>	American Holly <i>Ilex opaca</i>	Dodder <i>Cuscuta</i> sp.	Flea Beetle <i>Altica marevagens</i>
Live Oak <i>Quercus virginiana</i>	Dahoon; Cassena <i>Ilex cassine</i>	Buchnera <i>Buchnera floridana</i>	Pinhole Borer Beetle <i>Platypus flavicornis</i>
Turkey Oak <i>Quercus laevis</i>	Myrtle-leaved Holly <i>Ilex cassine myrsifolia</i>	Purple Bladderwort <i>Utricularia purpurea</i>	Palamedes Swallowtail <i>Papilio palamedes</i>
Spanish Oak <i>Quercus falcata</i>	Inkberry <i>Ilex glabra</i>	Lobelia <i>Lobelia boykinii</i>	Red-banded Hairstreak <i>Calycopis cecrops</i>
Black Jack Oak <i>Quercus marilandica</i>	Red Maple <i>Acer rubrum</i>	<i>Lobelia nuttallii</i>	Little Metalmark (butterfly) <i>Calephelis virginienensis</i>
Water Oak <i>Quercus nigra</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	<i>Lobelia</i> sp.	Common Wood-nymph (butterfly) <i>Cercyonis pegala pegala</i>
Blue-jack Oak <i>Quercus incana</i>	Piriqueta <i>Piriqueta caroliniana</i>	Marsh-fleabane <i>Pluchea rosea</i>	Grapeleaf Skeletonizer Moth <i>Harrisiana americana</i>
Running Oak <i>Quercus pumila</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Black-root <i>Pterocaulon pycnostachyum</i>	Luna Moth <i>Actias luna</i>
Polycarpon <i>Polycarpon tetraphyllum</i>	St.-Peter's-wort <i>Hypericum stans</i>	White-topped Aster <i>Aster paternus</i>	Pitcher-plant Borer Moth (larva) <i>Papaipema appassiomata</i>
Sweetbay <i>Magnolia virginiana</i>	St.-John's-wort <i>Hypericum fasciculatum</i>	Aster <i>Aster squarrosus</i>	Half-Yellow Moth <i>Tarachidia semiflava</i>
Redbay <i>Persea borbonia</i>	Rockrose; Frostweed <i>Helianthemum rosmarinifolium</i>	Stiff-leaved Aster <i>Aster linearifolius</i>	Southern Cricket Frog <i>Acris gryllus</i>
Pondspice <i>Litsea aestivalis</i>	Smooth Meadow-beauty <i>Rhexia alifanus</i>	Heterotheca <i>Heterotheca nervosa</i>	Cricket Frog <i>Acris</i> sp.
Southern Spicebush <i>Lindera melissarfolium</i>	Yellow Meadow-beauty <i>Rhexia lutea</i>	Coreopsis <i>Coreopsis major</i>	Pine Woods Treefrog <i>Hyla femoralis</i>
Trumpet Pitcher-plant <i>Sarracenia flava</i>	Pale Meadow-beauty <i>Rhexia mariana</i>	Coreopsis <i>Coreopsis flexuosum</i>	Little Grass Frog <i>Limnaea ocularis</i>
Hooded Pitcher-plant <i>Sarracenia minor</i>	Slender Seed-box <i>Ludwigia virgata</i>	Granular Puffball <i>Arachnion album</i>	Bullfrog <i>Rana catesbeiana</i>
Sundew <i>Drosera intermedia</i>	Maiden-weed <i>Fraseria pectinata</i>	Splash-cups <i>Cyathus striatus</i>	Southern Leopard Frog <i>Rana sphenoccephala</i>
<i>Drosera capillaris</i>	Devil's-walking-stick <i>Aralia spinosa</i>	Wolf's-milk Slime <i>Lycogala epidendrum</i>	Cattle Egret <i>Bulbicus ibis</i>
Sweet-gum <i>Liquidambar styraciflua</i>	Intelligence-plant <i>Centella asiatica</i>	FAUNA	Turkey Vulture <i>Cathartes aura</i>
Red Chokeberry <i>Sorbus arbutifolia</i>	Button Snakeroot <i>Eryngium yuccifolium</i>	Crab-shaped Spiny-back <i>Gasteracantha cancriformis</i>	White-breasted Nuthatch <i>Sitta carolinensis</i>
Rattlebox <i>Crotalaria purshii</i>	Black Tupelo; Blackgum <i>Nyssa sylvatica sylvatica</i>	Stink Bug <i>Mormidea</i> sp.	Blue-gray Gnatcatcher <i>Polioptila caerulea</i>
Zornia <i>Zornia bracteata</i>	Swamp Tupelo; Swamp Blackgum <i>Nyssa sylvatica biflora</i>	Green Stink Bug <i>Nezara viridula</i>	White-eyed Vireo <i>Vireo griseus</i>
Gaul's-ree <i>Tephrosia virginiana</i>	Sweet Pepperbush <i>Clethra alnifolia</i>	Brown Water-scorpion <i>Ranatra fusca</i>	Northern Parula <i>Parula americana</i>
Tephrosia <i>Rhododendron atlanticum</i>	Dwarf Azalea	Golden-winged Skimmer <i>Libellula auripennis</i>	Summer Tanager <i>Piranga rubra</i>
		Blue Dasher <i>Pachydiptax longipennis</i>	White-tailed Deer (bones) <i>Odocoileus virginianus</i>
		Violet-masked Glider <i>Tramea carolina</i>	

Lake Marion (Bird Island Area)

Berkeley County

June 25, 1988

This trip was unique for SCAN, as we spent the day on pontoon boats exploring Lake Marion, its islands and inlets. We even waded along the shallow edges of an island that wading birds use for a large rookery. Near the dam we could see large garfish below us. Osprey had utilized still-standing tree trunks out in the lake for nesting sites, and were feeding their young. In the Red Hill area we explored the shore for exposed fossils and artifacts. Glenn Quattlebaum, our Southern Regional Director, was able to share his knowledge gained by growing up in the area, which lent a special flavor to the trip.

Directions to Lake Marion (Bird Island Area):

From Manning, take SC 260 south about 9 miles, passing through Jordan and crossing Wyboo Creek. Before reaching Game Warden Slew, stop at the public boat ramp on the right. There, a rented boat may go to Bird Island.

**FLORA****Bald-cypress***Taxodium distichum***Water-weed***Elodea sp.***Giant Reed***Arundo donax***Black Willow***Salix nigra***Swamp Cottonwood***Populus heterophylla***Wax-myrtle; Southern Bayberry***Myrica cerifera***Water Hickory***Carya aquatica***Overcup Oak***Quercus lyrata***Laurel Oak***Quercus laurifolia***Water-elm; Planer-tree***Planera aquatica***Alligator-weed***Alternanthera philoxeroides***Pokeweed; Pokeberry***Phytolacca americana***Lotus; Pond-nuts***Nelumbo lutea***Sweet-gum***Liquidambar styraciflua***American Sycamore***Platanus occidentalis***Poison-ivy***Rhus radicans***Boxelder***Acer negundo***Red Maple***Acer rubrum***Muscadine; Bullace***Vitis rotundifolia***Pepper-vine***Ampelopsis arborea***Rose Mallow; Wild Cotton***Hibiscus moscheutos***Passionflower; Maypops***Passiflora incarnata***Water-primrose***Ludwigia uruguayensis***Blackgum***Nyssa sylvatica***Water Tupelo***Nyssa aquatica***Brazilian Vervain***Verbena brasilensis***Trumpet Vine***Campsis radicans***Button-bush***Cephalanthus occidentalis***Spongy-toothed Polypore***Spongipellis pachydont***Tiger Sawgill***Lentinus tigrinus***Bitter Oyster***Panelus stipticus***FAUNA****Dobsonfly (egg)***Corydalis cornutus***Eastern Pondhawk***Erythemis simplicicollis***Eastern Amberwing (dragonfly)***Perithemis tenera***Bluet (damselfly)***Enallagma sp.***Predacious Diving Beetle***Hydrovatus pustulatus***Burrowing Water Beetle***Suphisellus sp.***Whirligig Beetle***Dineutus sp.***Tumbling Flower Beetle***Mordella melana***Darkling Beetle***Diaperis maculata***Hoplocephala viridipennis***Platydemus erythrocerus***Platydemus sp.****Convergent Lady Beetle***Hippodamia convergens***Oval Leaf Beetle***Paria sellata***Broad-bodied Leaf Beetle***Chrysomela scripta***Flea Beetle***Disonychia caroliniana***Cloudless Sulphur***Altica sp.***Pearl Crescent***Phycobius sennae eubule***Common Buckeye (butterfly)***Junonia coenia***Red-spotted Purple (butterfly)***Limenitis arthemis astyanax***Viceroy; Mimic***Limenitis archippus***Fall Webworm Moth***Hyphantria cunea***Largemouth Bass***Micropterus salmoides***Anhinga; Snakebird***Anhinga anhinga***Double-crested Cormorant***Phalacrocorax auritus***Green-backed Heron***Butorides striatus***Little Blue Heron***Egretta caerulea***Cattle Egret***Bulbicus ibis***Great Egret***Casmerodius albus***Great Blue Heron***Ardea herodias***White Ibis***Eudocimus albus***Laughing Gull***Larus atricilla***Turkey Vulture***Cathartes aura***Osprey***Pandion haliaetus***Rock Dove; Pigeon***Columba livia*

Lake Marion (continued)

June 25, 1988

Chimney Swift

Chaetura pelagica

Red-headed Woodpecker

Melanerpes erythrocephalus

Eastern Kingbird

Tyrannus tyrannus

Purple Martin

Progne subis

Fish Crow

Corvus ossifragus

Loggerhead Shrike

Lanius ludovicianus

Northern Mockingbird

Mimus polyglottos

Red-winged Blackbird

Agelaius phoeniceus

Raccoon (tracks)

Procyon lotor

White-tailed Deer (bones)

Odocoileus virginianus

(Photo by L. Smith)

Lotus or pond-nuts, *Nelumbo lutea*.

Old Santee Canal State Park

Berkeley County

December 14, 1991 & May 9, 1992

This state park, with the old canal and Low Country vegetation, makes a nice combination of human and natural history. The interpretive center is spectacular with its entrance through a model of one of the old locks complete with water gates. Birds were a significant portion of both visits. Still swollen from a recent meal, a juvenile yellow rat snake revealed a pattern of blocks along its body, quite different from the stripes it will acquire later in life. The spring trip also provided good wildflowers such as *Silene* and *Spigelia*. The viewing of a colony of hairy flower bees tunneling into a limestone embankment (see below) constituted an unusual treat (no one was stung during the close-up photography binge).

Directions to Old Santee Canal State Park: From I-26 near Summerville, take Exit 199 (US 17-ALT) north to the far side of Moncks Corner. Where US 52 merges with US 17-ALT, stay on 17-ALT and go about 0.6 mile further. Just after passing George Jones Mobile Home Sales, turn right; if you cross the bridge over the canal, you missed the turn. Proceed about one mile and look for the sign for the Old Santee Canal State Park. Turn left there and follow Stoney Landing Road to the park.



Science and Nature Notes: Hairy Flower Bees

Hairy flower bees (*Anthophora* sp.) seen at Old Santee Canal State Park, as well as on the land over the waterfall at Peach Tree Rock in Lexington County and along the trail at Eastatoe Creek Heritage Preserve in Pickens County, are representative of a number of related Apidae species that are all large and hairy. They nest in tunnels, usually in clay banks. Although gregarious, forming colonies up to hundreds in size, they are not truly social in that they don't share a single hive. Each bee digs a separate 3/8" hole over which it builds a mud entrance tube. The tube is smoothed on the inside by water lapped up by the bee and carried to the nest. These tunnels extend into the bank leading to an inner cluster of cells which are waterproofed by a thin layer of salivary excretion. Additionally, these inner cells contain a semifluid mass of pollen and nectar which provide food for the young. The larvae remain in the cells through the winter, pupate in the spring, and emerge in early summer.

FLORA

Lichen

Leptogium cyanescens
Graphis scripta
Graphis mosquitensis
Medusulina nitida
Sarcographa sp.
Bilimbia lignaria
Bacidia schweinitzii
Leptogium austroamericanum
Lecidea russula
Leitrouitia domingense
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria plittiana
Pertusaria texana
Pertusaria valliculata
Haematomma puniceum
Lecania fuscella
Lecanora miculata
Lecanora allophana argentata
Lecanora cupressi
Lecanora pallida
Lecanora varia
Ochrolechia africana
Bulbothrix confederata
Bulbothrix goebeli
Bulbothrix laevigatula
Hypotrachyna livida
Parmelia aurulenta
Parmelia dissecta
Parmeliopsis subambigua
Parmotrema cetratum
Parmotrema crinitum
Parmotrema cristiferum
Parmotrema michauxianum
Parmotrema praesorediosum
Parmotrema rampoddense
Parmotrema reticulatum
Parmotrema subtoricatum
Pseudoparmelia caroliniana
Usnea strigosa
Buellia caloensis
Buellia curtisii
Buellia stillingiana
Buellia sp.
Physcia alipolia
Physcia crispa
Heterodermia albicans
Phaeophyscia ciliata
Anthracotheceum thelomorphum
Pyrenula cruenta
Pyrenula mamillana
Hyperphyscia syncolla
Trypethelium mastoidesum
Trypethelium tropicum
Trypethelium virens
Trypethelium scorites
Trypethelium floridanum
Porina nucula
Lecanactis sp.
Amphiloma lanuginosum
Royal Fern
Osmunda regalis spectabilis
Christmas Fern
Polystichum acrostichoides

Thelypteris (fern)

Thelypteris kunthii
Sensitive Fern
Onoclea sensibilis
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Mosquito Fern
Azolla caroliniana
Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Pondweed
Potamogeton sp.
Creeping Water-plantain
Echinodorus cordifolius
Brazilian Elodea
Egeria densa
Cane; Switch Cane
Arundinaria gigantea
River Oaks
Uniola latifolia
Wild Rye Grass
Elymus virginicus
Needle Grass
Stipa avenacea
Goose Grass
Eleusine indica
Southern Wild Rice
Zizaniopsis miliacea
Broomsedge
Andropogon virginicus
Wool-grass
Scirpus cyperinus
Dwarf Palmetto
Sabal minor
Golden-club
Orontium aquaticum
Giant Duckweed
Spirodela sp.
Duckweed
Lemna sp.
Bogmat
Wolffella floridana
Spansh-moss
Tillandsia usneoides
Asian Spiderwort
Anelasma keiskei
Pickertweed
Pontederia cordata
Greenbrier; Bullbrier
Smilax rotundifolia
Fringed Greenbrier
Smilax bona-nox
Sweet-scented Smilax
Smilax smallii
Little-sweet-Betsy
Trillium cuneatum
Mound-lily Yucca
Yucca gloriosa
Cinnamon-vine
Dioscorea batatas

Lizard's-tail

Saururus cernuus
Willow
Salix sp.
Eastern Cottonwood
Populus deltoides
Swamp Cottonwood
Populus heterophylla
Wax-myrtle; Southern Bayberry
Myrica cerifera
Black Walnut
Juglans nigra
Mockernut Hickory
Carya tomentosa
Tag Alder
Alnus serrulata
American Hornbeam; Ironwood
Carpinus caroliniana
Allegheny Chinquapin
Castanea pumila
White Oak
Quercus alba
Swamp Chestnut Oak
Quercus michauxii
Live Oak
Quercus virginiana
Swamp Red Oak
Quercus shumardii
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Slippery Elm
Ulmus rubra
American Elm
Ulmus americana
Winged Elm
Ulmus alata
Sugarberry; Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
False Nettle
Boehmeria cylindrica
Clearweed
Pilea pumila
Wild Ginger
Asarum canadense
Swamp Dock
Rumex verticillatus
Polygonum
Polygonum sp.
Fire Pink
Silene virginica
Hornwort
Ceratophyllum demersum
Clematis
Clematis sp.
Thimbleweed
Anemone virginiana
Mayapple
Podophyllum peltatum
Tulip-poplar
Liriodendron tulipifera
Southern Magnolia
Magnolia grandiflora

PawPaw

Asimina triloba
Redbay
Persea borbonia
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Bloodroot
Sanguinaria canadensis
Virginia-willow
Itea virginica
Climbing-hydrangea
Decumaria barbara
Witch-hazel
Hamamelis virginiana
American Sycamore
Platanus occidentalis
Indian Strawberry
Duchesnea indica
Five-fingers
Potentilla canadensis
Swamp Rose
Rosa palustris
Chickasaw Plum
Prunus angustifolia
Redbud; Judas-tree
Cercis canadensis
Sour Clover
Melilotus indica
Indigo-bush
Amorpha fruticosa
American Wisteria
Wisteria frutescens
Groundnut
Apios americana
Coral-bean
Erythrina herbacea
Hog-peanut
Amphicarpa bracteata
Wild Geranium
Geranium maculatum
Chinese Tallow-tree
Sapium sebiferum
Poison Sumac
Rhus vernix
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Yaupon
Ilex vomitoria
Possunhaw Holly
Ilex decidua
Boxelder
Acer negundo
Red Maple
Acer rubrum
Southern Sugar Maple
Acer saccharum floridanum
Red Buckeye
Aesculus pavia
Supple-jack; Rattan-vine
Berchemia scandens

Old Santee Canal State Park (continued)
December 14, 1991, and May 9, 1992

New-Jersey-tea

Ceanothus americanus

Buckthorn

Rhamnus caroliniana

Pepper-vine

Ampelopsis arborea

Basswood; Linden

Tilia heterophylla

Yellow Passionflower

Passiflora lutea

Devil's-walking-stick

Aralia spinosa

Water Pennywort

Hydrocotyle ranunculoides

Yellow-flowered Snakeroot

Sanicula gregaria

Wild Chervil

Chaerophyllum taintieri

Meadow Parsnip

Thaspium barbinode

Goutweed; Bishop's-weed

Aegopodium podagraria

Water Parsnip

Sium suave

Water Hemlock

Cicuta maculata

Swamp Tupelo; Swamp Blackgum

Nyssa sylvatica biflora

Siky Dogwood

Cornus amomum

Dogwood

Cornus asperifolia

Water Pimpernel

Samolus parviflorus

Buckthorn Bumelia

Bumelia lycioides

Persimmon

Diospyros virginiana

Bigleaf Snowbell

Styrax grandifolia

Ash

Fraxinus sp.

Privet; Ligustrum

Ligustrum japonicum

Chinese Privet

Ligustrum sinense

Indian-pink

Spigelia marilandica

Milkweed

Asclepias sp.

Brazilian Vervain

Verbena brasiliensis

Beautyberry

Callicarpa americana

Lup-seed

Phytolacca leptostachya

Ground-cherry

Physalis sp.

Shade Mudflower

Microrhizomum underrumum

Woolly Mullein

Verbascum thapsus

Fignort

Scrophularia marilandica

False Foxglove

Aureolaria sp.

Cross Vine

Anisostichus capreolata

Trumpet Vine

Campsis radicans

Floating Bladderwort

Utricularia inflata

Elytraria

Elytraria carolinensis

Button-bush

Cephalanthus occidentalis

Bedstraw; Purple-bead

Galium hispidulum

Japanese Honeysuckle

Lonicera japonica

Coral Honeysuckle

Lonicera sempervirens

Black-baw; Nanny-berry

Viburnum prunifolium

Small-leaf Viburnum

Viburnum obovatum

Arrowwood

Viburnum dentatum

American Elderberry

Sambucus canadensis

Cardinal-flower

Lobelia cardinalis

Wild Lettuce

Lactuca sp.

Common Sow-thistle

Sonchus oleraceus

Butterweed

Senecio glabellus

Mistflower; Ageratum

Eupatorium coelestinum

Climbing Hempweed

Mikania scandens

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

Heart-leaved Aster

Aster cordifolius

Climbing Aster

Aster carolinianus

Frost Aster

Aster pilosus

Aster

Aster dumosus

Bearsfoot

Polymnia uvedalia

Green-and-gold

Chrysogonum virginianum

Eclipta

Eclipta alba

Spilanthes

Spilanthes americana repens

Verbesina

*Verbesina occidentalis**Verbesina virginica virginica*

Melandthera

Melandthera hastata

Beggarticks

Bidens sp.

FAUNA

White-lipped Forest Snail

Mexodon thyroideus

Asiatic Clam

Corbicula sp.

Wheel Bug

Arilus cristatus

Woolly Alder Aphid

Prociphilus tessellatus

Cottony Cushion Scale

Icerya purchasi

Potter Wasp

Eumenes fraternus

Bald-faced Hornet

Vespa maculata

Pipe-organ Wasp

Trypoxylon politum

Green Tiger Beetle

Cicindela sexguttata

Tiger Beetle

Cicindela unipunctata

Crawling Water Beetle

Peltodytes sexmaculatus

Whirligig Beetle

*Dineutus emarginatus**Gyrinus analis**Gyrinus lugens*

Water Scavenger Beetle

Tropisternus mixtus

Marsh Beetle

Cyphon sp.

Metallic Wood-boring Beetle

Taphrocerus sp.

Soldier Beetle

Cantharis sp.

Firefly; Lightning Beetle

Lucidota atra

Branch Twig Borer Beetle

Dryidius obscurus

False Blister Beetle

Xanthochroa sp.

Dusky Lady Beetle

Scymnus terminatus

Spotless Lady Beetle

Cycloneda sanguinea

Flat-faced Longhorn Beetle

Hippodamia lemniscata

Broad-bodied Leaf Beetle

Calligrapha rhoda

Flea Beetle

*Disonycha sp.**Altica sp.*

Leaf-mining Beetle

Chalepus scapularis

Primitive Weevil

Arrhenodes minutus

Leaf-mining Weevil

Eugnamptus collaris collaris

Billbug; Grain Weevil

Sphenophorus sp.

Cloudless Sulphur

Phoebastria senae eubule

Little Yellow (butterfly)

Eurema lisa

Gulf Fritillary

Agraulis vanillae

Long-tailed Skipper

Urbanus proteus

Yellow-bellied Slider

Chrysemys scripta

Carolina Anole

Anolis carolinensis

Skink

Eumeces sp.

Ground Skink

Scincella lateralis

Rot Snake

Elaphe obsoleta

Eastern Hognose Snake

Heterodon platyrhinos

Little Blue Heron

Egretta caerulea

Great Egret

Casmerodius albus

Great Blue Heron

Ardea herodias

White Ibis

Eudocimus albus

Common Moorhen

Gallinula chloropus

Killdeer

Charadrius vociferus

Turkey Vulture

Cathartes aura

Red-shouldered Hawk

Buteo lineatus

Osprey

Pandion haliaetus

Mourning Dove

Zenaidura macroura

Chimney Swift

Chaetura pelagica

Belted Kingfisher

Ceryle alcyon

Red-bellied Woodpecker

Melanerpes carolinus

Downy Woodpecker

Picoides pubescens

Pileated Woodpecker

Dryocopus pileatus

Eastern Kingbird

Tyrannus tyrannus

Great Crested Flycatcher

Myiarchus cinerascens

Eastern Phoebe

Sayornis phoebe

Acadian Flycatcher

Empidonax virens

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Fish Crow

Corvus ossifragus

Tufted Titmouse

Parus bicolor

Carolina Wren

Thryothorus ludovicianus

Ruby-crowned Kinglet
Regulus calendula
Blue-gray Gnatcatcher
Polioptila caerulea
American Robin
Turdus migratorius
Loggerhead Shrike
Lanius ludovicianus
Gray Catbird
Dumetella carolinensis
Northern Mockingbird
Mimus polyglottos
Red-Eyed Vireo
Vireo olivaceus
Prothonotary Warbler
Protonotaria citrea

Northern Parula
Parula americana
Black-and-white Warbler
Mniotilta varia
Yellowthroat
Geothlypis trichas
Northern Cardinal
Cardinalis cardinalis
Red-winged Blackbird
Agelaius phoeniceus
Common Grackle
Quiscalus quiscula
Boat-tailed Grackle
Quiscalus major



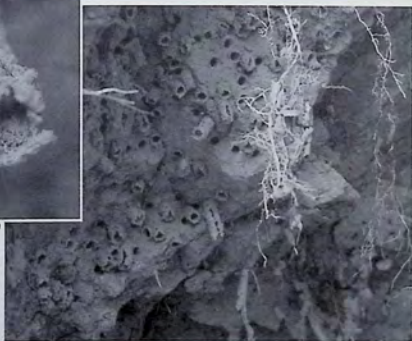
(Photo by L. Greenlee)

Gulf Fritillary, *Agraulis vanillae*, emerges from its chrysalis.



(Photos by L. Smith)

Hairy bees, *Anthophora* sp., build tubes in the banks along trails.





Charleston County

Beaches of Edisto Island Charleston and Colleton Counties

Edingsville Beach, October 24, 1987

Botany Bay Island, October 22, 1988

Edisto Beach State Park, June 10, 1995

Beachcombing, classic maritime forests, and marshes are the highlights of any visit to this part of the South Carolina coast. The contour of the ocean bottom offshore helps wash up an unusual amount of fossil and shell material onto the beaches in this area. SCAN was fortunate enough to be granted access to Edingsville Beach and Botany Bay Island from the private landowners. We appreciate their helpfulness and kindness in this. The shell and marsh specimens list is enhanced because of their generosity. This area is the coastal edge of the ACE Basin. The Edisto Island part of the state park offers a good look at the marsh and maritime forest areas. It is a good area to explore slowly, seeing all the small parts that make up a natural coastal area.

Directions to the Beaches of Edisto Island: From Walterboro, take SC 64 southeast 14 miles to Jacksonboro. Turn left onto US 17 northeast toward Charleston, and go about 7 miles to SC 174. Turn right (south) onto SC 174, passing through Adams Run, and continue all the way to the Atlantic Ocean, about 25 miles. The Edisto Beach State Park picnic area is on the beach on the left just before the highway turns abruptly to the right. For the village of Edisto Beach, follow SC 174 from the state park to the end of the road. Edingsville Beach can be reached by turning left from SC 174 onto County Road S 10-2063 about 2.5 miles before reaching the state park. The boat landing for Botany Bay Island can be reached by turning left onto the unnumbered dirt road about 0.5 miles after the intersection of SC 174 and County Roads S 10-767/S 10-1452.



FLORA

Lichen

Graphis scripta
Graphis elegans
Glyphis cicuticosa
Phaeographis dendritica
Pertusaria neoscotica
Pertusaria texana
Maronea constans
Haematomma elatium
Lecanora cupressi
Lecanora pollida rubescens
Lecanora varia
Lecanora sp.

Lecanora sp.
Ochrolechia africana
Bulbothrix goebellii
Bulbothrix goebellii f. minor
Hypotrachyna pustulifera
Parmelina horrescens
Parmelina minarum
Parmotrema dilatatum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema praezorediosum
Parmotrema tinctorum
Canoparmelia caroliniana
Punctelia rudecta

Ramalina americana
Usnea mutabilis
Buellia punctata
Dirinaria confusa
Dirinaria picta
Physcia millegrana
Schizomatonna rediuntia
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Virginia Chain Fern
Woodwardia virginica

Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Eastern Red-cedar
Juniperus virginiana
Southern Red-cedar
Juniperus silicicola
Cane; Switch Cane
Arundinaria gigantea

Salt Grass <i>Distichlis spicata</i>	Marsh Orach <i>Atriplex patula</i>	Prickly-pear <i>Opuntia compressa</i>	Sea Ox-eye <i>Borrchia frutescens</i>
Sea Oats <i>Uniola paniculata</i>	Glasswort <i>Salicornia bigelovii</i>	Devil's-walking-stick <i>Aralia spinosa</i>	Beggar-ticks <i>Bidens sp.</i>
Needle Grass <i>Stipa avenacea</i>	<i>Salicornia europaea</i>	Dune Pennywort <i>Hydrocotyle bonariensis</i>	Chanterelle <i>Cantharellus sp.</i>
Smut Grass <i>Sporobolus poiretii</i>	<i>Salicornia sp.</i>	Snakeroot <i>Sanicula sp.</i>	Chicken Mushroom <i>Laetiporus sulphureus</i>
Finger Grass <i>Chloris petraea</i>	Perennial Glasswort <i>Salicornia virginica</i>	Flowering Dogwood <i>Cornus florida</i>	Tacky Green Russula <i>Russula aeruginea</i>
Cord Grass <i>Spartina patens</i>	Sea-bligh <i>Suaeda linearis</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Red Russula <i>Russula sp.</i>
Smooth Cord Grass <i>Spartina alterniflora</i>	Russian-thistle <i>Salsola kali</i>	Sea-lavender <i>Limonium carolinianum</i>	Earthstar <i>Geastrum sp.</i>
Dune Sandbar <i>Cenchrus tribuloides</i>	Pokeweed; Pokeberry <i>Phytolacca americana</i>	<i>Limonium nashii</i>	FAUNA
Opilismenus (grass) <i>Opilismenus setarius</i>	Purslane <i>Portulaca oleracea</i>	Buckthorn Bumelia <i>Bumelia texan</i>	Sea-whip <i>Leptogorgia virgulata</i>
Seaside Panic Grass <i>Panicum amarum</i>	Southern Magnolia <i>Magnolia grandiflora</i>	Persimmon <i>Diospyros virginiana</i>	Tan Bushy Soft Coral <i>Plexaura flexuosa</i>
Broomsedge <i>Andropogon virginicus</i>	Redbay <i>Persea borbonia</i>	Wild Olive <i>Osmanthus americana</i>	Sea-pork (tunicate) <i>Apilidium sp.</i>
Fimbristylis (sedge) <i>Fimbristylis spadicosa</i>	Sassafras <i>Sassafras albidum</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Brown Rock Urchin <i>Arbacia punctulata</i>
Nut-rush <i>Scleria triglomerata</i>	Sea-rocket <i>Cakile harperi</i>	Polypremum <i>Polypremum procumbens</i>	Five-holed Keyhole Urchin <i>Mellita quinguesperforata</i>
Dwarf Palmetto <i>Sabal minor</i>	Sweet-gum <i>Liquidambar styraciflua</i>	Fog-fruit <i>Lippia nodiflora</i>	Marsh Periwinkle; Mud Snail <i>Littorina irrorata</i>
Cabbage Palmetto <i>Sabal palmetto</i>	Black Cherry; Wild Cherry <i>Prunus serotina</i>	Beautyberry <i>Callicarpa americana</i>	Wentletrap (snail) <i>Epitonium sp.</i>
Coconut <i>Cocos nucifera</i>	Sensitive-brier <i>Schrankia microphylla</i>	Horse-nettle <i>Solanum carolinense</i>	Flat Slipper (snail) <i>Crepidula plana</i>
Spanish-moss <i>Tillandsia usneoides</i>	Black Medic <i>Medicago lupulina</i>	Cross Vine <i>Anisostichus capreolata</i>	Southern Moon Snail; Shark-eye <i>Polinices duplicatus</i>
Black Needle Rush <i>Juncus roemerianus</i>	Beggar-lice <i>Desmodium sp.</i>	Broadleaf Plantain <i>Plantago rugelii</i>	Baby's-ear (shell) <i>Simus perspectivus</i>
Fringed Greenbrier <i>Smilax bona-nox</i>	Coral-bean <i>Erythrina herbacea</i>	Trailing Bluets <i>Houstonia procumbens</i>	Atlantic Oyster-drill <i>Urosalpinx cinerea</i>
Dune Greenbrier <i>Smilax auriculata</i>	Butterfly-pea <i>Clitorea mariana</i>	Bedstraw <i>Galium sp.</i>	Murex (snail) <i>Chicoreus sp.</i>
Spanish-bayonet <i>Yucca aloifolia</i>	Beach-pea; Wild Bean <i>Strophostyles helvola</i>	Japanese Honeysuckle <i>Lonicera japonica</i>	Channeled Whelk <i>Busycon canaliculatum</i>
Mound-lily Yucca <i>Yucca gloriosa</i>	Hercules'-club <i>Zanthoxylum clava-herculis</i>	Coral Honeysuckle <i>Lonicera sempervirens</i>	Knobbed Whelk <i>Busycon carica</i>
Bear-grass <i>Yucca filamentosa</i>	Silverleaf Croton <i>Croton punctatus</i>	Beach-elder <i>Iva imbricata</i>	Lightning Whelk <i>Busycon contrarium</i>
Blue-eyed-grass <i>Sisyrinchium mucronatum</i>	Chinese Tallow-tree <i>Sapium sebiferum</i>	Common Ragweed <i>Ambrosia artemisiifolia</i>	Florida Horse Conch <i>Pleuroploca gigantea</i>
Wax-myrtle; Southern Bayberry <i>Myrica cerifera</i>	Spurge <i>Euphorbia ammannioides</i>	Common Dandelion <i>Taraxacum officinale</i>	Lettered Olive (snail) <i>Oliva sayana</i>
Coastal Chinquapin <i>Castanea pumila ashei</i>	<i>Euphorbia polygonifolia</i>	Elephant's-foot <i>Elephantopus tomentosus</i>	Olive (snail) <i>Oliva sp.</i>
White Oak <i>Quercus alba</i>	Poison-ivy <i>Rhus radicans</i>	Dog-fennel <i>Eupatorium capillifolium</i>	Ribbed Mussel <i>Crassostrea demissa</i>
Live Oak <i>Quercus virginiana</i>	Winged Sumac <i>Rhus copallina</i>	Marsh-fleabane <i>Pluchea rosea</i>	Ponderous Ark <i>Noelia ponderosa</i>
Water Oak <i>Quercus nigra</i>	American Holly <i>Ilex opaca</i>	Camporweed <i>Pluchea purpurascens</i>	Winged Pearl Oyster <i>Pteria colymbus</i>
Laurel Oak <i>Quercus laurifolia</i>	Yupon <i>Ilex vomitoria</i>	Sea-myrtle; Groundsel-tree <i>Baccharis halimifolia</i>	Stiff Pen (shell) <i>Atrina rigida</i>
Hackberry <i>Celtis occidentalis georgiana</i>	Red Maple <i>Acer rubrum</i>	Salt-marsh Aster <i>Aster tenuifolius</i>	Pen (shell) <i>Atrina sp.</i>
Clearweed <i>Pilea pumila</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Salt-marsh Goldenrod <i>Solidago sempervirens</i>	Eastern Oyster <i>Crassostrea virginica</i>
Seabeach Orach <i>Atriplex arenaria</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Goldenrod <i>Solidago tenuifolia</i>	Lion's-paw (shell) <i>Lymnaea nodosus</i>
	St.-Andrew's-cross <i>Hypericum hypericoides</i>		
	Tamarisk; Saltcedar <i>Tamarix gallica</i>		

Beaches of Edisto Island (continued)

October 24, 1987, October 22, 1988, and June 10, 1995

Jingle Shell <i>Anomia simplex</i>	Wandering Glider <i>Pantala flavescens</i>	Carolina Anole <i>Anolis carolinensis</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>
Cross-hatched Lucine <i>Divaricella quadrivalvata</i>	Violet-masked Glider <i>Tramea carolina</i>	Six-lined Racetracker <i>Cnemidophorus sexlineatus</i>	Downy Woodpecker <i>Picoides pubescens</i>
Giant Atlantic Cockle <i>Dinocardium robustum</i>	Tiger Beetle <i>Cicindela dorsalis media</i>	Common Loon <i>Gavia immer</i>	Hairy Woodpecker <i>Picoides villosus</i>
Common Cockle <i>Trachycardium auriculatum</i>	Cicindela sp.	Brown Pelican <i>Pelecanus occidentalis</i>	Pileated Woodpecker <i>Dryocopus pileatus</i>
Atlantic Razor Clam <i>Ensis directus</i>	Fiery Searcher; Ground Beetle <i>Calosoma scrutator</i>	Double-crested Cormorant <i>Phalacrocorax auritus</i>	Great Crested Flycatcher <i>Myiarchus crinitus</i>
Coquina (shell) <i>Donax</i> sp.	Dingo Ground Beetle <i>Anisodactylus</i> sp.	Tricolored Heron <i>Egretta tricolor</i>	Tree Swallow <i>Iachycineta bicolor</i>
Northern Quahog Clam <i>Mercenaria mercenaria</i>	Passalus; Bess-beetle <i>Popillia disjunctus</i>	Little Blue Heron <i>Egretta caerulea</i>	Barn Swallow <i>Hirundo rustica</i>
Angel-wing (shell) <i>Cyproleura costata</i>	Tumblebug; Dung Beetle <i>Glaphyrocathion viridis</i>	Snowy Egret <i>Egretta thula</i>	Blue Jay <i>Cyanocitta cristata</i>
Atlantic Horseshoe Crab <i>Limulus polyphemus</i>	Flower Scarab Beetle <i>Trigonopeltastes delus</i>	Great Egret <i>Casmerodius albus</i>	American Crow <i>Corvus brachyrhynchos</i>
Tropical Goose Barnacle <i>Lepas anatifera</i>	Tick Trefoil Leaf-miner <i>Pachyschelus laevigatus</i>	Great Blue Heron <i>Ardea herodias</i>	Tufted Titmouse <i>Parus bicolor</i>
Rock Barnacle <i>Balanus</i> sp.	Tumbling Flower Beetle <i>Mondella melana</i>	White Ibis <i>Eudocimus albus</i>	Carolina Chickadee <i>Parus carolinensis</i>
Hermit Crab <i>Pagurus</i> sp.	Mondella atrata	Clapper Rail <i>Rallus longirostris</i>	Carolina Wren <i>Troglodytes ludovicianus</i>
Common Mole Crab <i>Emerita talpoida</i>	Mondella atrata	American Avocet <i>Recurvirostra americana</i>	Ruby-crowned Kinglet <i>Regulus calendula</i>
Gulf Calico Crab <i>Hepatus epheliticus</i>	Comb-clawed Beetle <i>Hymenorus</i> sp.	Semipalmated Plover <i>Charadrius semipalmatus</i>	Blue-gray Gnatcatcher <i>Polioptila caerulea</i>
Mottled Purse Crab <i>Persephone mediterranea</i>	Sap-feeding Beetle <i>Falodes</i> sp.	Willet <i>Catoptrophorus semipalmatus</i>	American Robin <i>Turdus migratorius</i>
Spider Crab <i>Libinia</i> sp.	Spotless Lady Beetle <i>Cycloneda sanguinea</i>	Dunlin <i>Calidris alpina</i>	Northern Mockingbird <i>Mimus polyglottus</i>
Speckled Crab <i>Arenaria cribrarius</i>	Hickory Girdler Beetle (tracks) <i>Oncideres cingulata</i>	Sanderling <i>Calidris alba</i>	Brown Thrasher <i>Toxostoma rufum</i>
Common Blue Crab <i>Callinectes sapidus</i>	Gray-sided Oak Weevil <i>Pandeletius hilaris</i>	Western Sandpiper <i>Calidris mauri</i>	European Starling <i>Sturnus vulgaris</i>
Lady Crab <i>Ovalipes ocellatus</i>	Black Swallowtail <i>Papilio polyxenes asterius</i>	Least Sandpiper <i>Calidris minutilla</i>	White-eyed Vireo <i>Vireo griseus</i>
Stone Crab <i>Menippe mercenaria</i>	Palamedes Swallowtail <i>Papilio palamedes</i>	Ruddy Turnstone <i>Arenaria interpres</i>	Northern Parula <i>Parula americana</i>
Purple Marsh Crab <i>Sesarma reticulatum</i>	Cloudless Sulphur <i>Phoebastria sennae eubule</i>	Franklin's Gull <i>Larus pipixcan</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Ghost Crab <i>Ocyropsis quadrata</i>	Sleepy Orange (butterfly) <i>Eurema nicippe</i>	Laughing Gull <i>Larus atricilla</i>	Painted Bunting <i>Passerina ciris</i>
Fiddler Crab <i>Uca</i> sp.	Gulf Fritillary <i>Aganippe vanillae</i>	Ring-billed Gull <i>Larus delawarensis</i>	Rufous-sided Towhee <i>Pipilo erythrophthalmus</i>
Crab-shaped Spiny-back <i>Gasterocantha cancriformis</i>	Variegated Fritillary <i>Euptoieta claudia</i>	Herring Gull <i>Larus argentatus</i>	Red-winged Blackbird <i>Agelaius phoeniceus</i>
Golden-silk Spider <i>Nephila clavipes</i>	Common Buckeye (butterfly) <i>Junonia coenia</i>	Royal Tern <i>Sterna mazima</i>	Brewer's Blackbird <i>Euphagus cyanocephalus</i>
Daddy-long-legs <i>Leiochlamys</i> sp.	Gemmed Satyr (butterfly) <i>Cytopsis gemma</i>	Black Vulture <i>Coragyps atratus</i>	Common Grackle <i>Quiscalus quiscula</i>
Velvet-ant <i>Dasyneura</i> sp.	Monarch (butterfly) <i>Danaus plexippus</i>	Sharp-shinned Hawk <i>Accipiter striatus</i>	Boat-tailed Grackle <i>Quiscalus major</i>
Red Imported Fire Ant <i>Solenopsis invicta</i>	Queen (butterfly) <i>Danaus gilippus</i>	Osprey <i>Pandion haliaetus</i>	Summer Tanager <i>Piranga rubra</i>
Honey Bee <i>Apis mellifera</i>	Long-tailed Skipper <i>Urbanus proteus</i>	American Kestrel <i>Falco sparverius</i>	Gray Squirrel <i>Sciurus carolinensis</i>
Swamp Darter <i>Epiplatys heros</i>	Gar Fish (bones) <i>Lepisosteus</i> sp.	Rock Dove; Pigeon <i>Columba livia</i>	Raccoon <i>Procyon lotor</i>
Great Blue Skimmer <i>Libellula vibrans</i>	Green Treefrog <i>Hyla cinerea</i>	Mourning Dove <i>Zenaidura macroura</i>	Bottle-nosed Dolphin <i>Tursiops truncatus</i>
	Diamondback Terrapin <i>Malaclemys terrapin</i>	Ruby-throated Hummingbird <i>Archilochus colubris</i>	White-tailed Deer (tracks) <i>Odocoileus virginianus</i>
	Loggerhead Sea Turtle <i>Caretta caretta</i>	Belted Kingfisher <i>Ceryle alcyon</i>	

FOSSILS

Stingray (barb, dental plate)

Myliobatis sp.*Dasyatis* sp.

Lemon Shark (tooth)

Negaprion brevirostris

Sand Shark (tooth)

Odontaspis hopei

Sand Tiger Shark (tooth)

Odontaspis taurus

Ground Shark (tooth)

Carcharhinus sp.

Black Drum (tooth)

Pogonias cromis

Pond Turtle (shell fragment)

Emydidae Family(Photo by L. Greenlee)
Ghost Crab, *Ocypode quadrata*.

Bull Island

(Cape Romain National Wildlife Refuge)

Charleston County

December 9, 1995

Bull Island is the classic barrier island, protecting the marsh and inland areas from the full direct force of the open ocean. The devastation wrought by Hurricane Hugo would have been far worse inland had these islands not dampened some of the force of the huge tides. Most of the island's forest canopy was lost, and will take decades to recover.

As a result, the forest consists of typical post-hurricane maritime plant material. There are some man-made fresh water ponds that support alligators and a large population of wading birds, especially in the winter months. The diversity of plants and animals is enhanced by minimal human intervention. Open sand roads still remain for easy access to the many differing habitats, allowing the visitor to see a lot in a short time. During SCAN's visit, hunters were using part of the refuge, so our choices of areas to visit were limited mostly to the outer beach and main trail across the middle of the island. Even that provided many fascinating things to examine.

Directions to Bull Island: From Charleston take US-17 north toward Georgetown. After passing through Mount Pleasant and beyond the intersection with I-526, note the junction with SC 41 on the left. Continue north on US-17 for 7.2 miles beyond SC 41; then turn right onto County Road S 10-584. Go 3.5 miles to the Moore's Landing road, turn right, and follow that road to Moore's Landing and the boat dock. (If you miss the turn onto S 10-584 and arrive in Awendaw, turn around, go 2.8 miles to S 10-432, turn left, then take the right fork at the school onto the north end of S 10-584.)



FLORA

Gulfweed

Sargassum fluitans

Lichen

*Leptogium cyanescens**Graphis scripta**Graphis elegans**Phaeographis dendritica**Pertusaria tetralthalia**Haematomma elatinum**Lecanora hypoptoides**Lecanora cupressi**Lecanora pallida rubescens**Bulbothrix goebellii**Parmelina galbina**Parmelina horrescens**Parmotrema dilatatum**Parmotrema hypotropum**Parmotrema michauxianum**Parmotrema perforatum**Parmotrema praesorediosum**Parmotrema tinctorum**Parmotrema ultralucens**Punctelia rudecta**Usnea mutabilis**Usnea strigosa**Buellia dialytia**Buellia curatellae**Dirinaria confusa**Dirinaria picta**Dirinaria purpurascens**Physcia americana**Heterodermia albicans**Heterodermia speciosa**Pyxine caesiopruinosa**Rinodina roboris**Ochrolechia africana**Pyrenula cruenta**Pteridium aquilinum***Resurrection Fern***Polypodium polypodioides***Mosquito Fern***Azolla caroliniana*

Bull Island (continued)

December 9, 1995

Loblolly Pine

Pinus taeda

Southern Red-cedar

Juniperus silicicola

Common Cat-tail

Typha latifolia

Cane; Switch Cane

Arundinaria gigantea

Giant Reed

Arundo donax

Sea Oats

Uniola paniculata

Smart Grass

Sporobolus airoides

Finger Grass

Chloris persea

Card Grass

Spartina patens

Smooth Cord Grass

Spartina alterniflora

Sandbar; Sandpurs

Cenchrus sp.

Seaside Panic Grass

Panicum amarum

Broomsedge

Andropogon sp.

White-bracted Sedge

Dichromena colorata

Cabbage Palmetto

Sabal palmetto

Coconut

Cocos nucifera

Duckweed

Lemna sp.

Water-meal

Wolffia sp.

Spanish-moss

Tillandsia usneoides

Black Needle Rush

Juncus roemerianus

Fringed Greenbrier

Smilax bona-nox

Dune Greenbrier

Smilax auriculata

Spanish-bayonet

Yucca aloefolia

Mound-lily Yucca

Yucca gloriosa

Willow

Salix sp.

Wax-myrtle; Southern Bayberry

Myrica cerifera

Live Oak

Quercus virginiana

Laurel Oak

Quercus laurifolia

Hackberry

Celtis occidentalis georgiana

Southern Magnolia

Magnolia grandiflora

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Sea-rocket

Cakile sp.

Dewberry

Rubus trivialis

Blackberry; Brambles

Rubus sp.

Wild Indigo

Baptisia sp.

Rattlebox

Crotalaria sp.

Spotted Medic

Medicago arabica

Sesbania

Sesbania exaltata

Chinese Wisteria

Wisteria sinensis

Coral-bean

Erythrina herbacea

Hercules'-club

Zanthoxylum clava-herculis

Silverleaf Croton

Croton punctatus

Chinese Tallow-tree

Sapium sebiferum

Poison-ivy

Rhus radicans

Poison-oak

Rhus toxicodendron

Winged Sumac

Rhus copallina

American Holly

Ilex opaca

Yaupon

Ilex vomitoria

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Pepper-vine

Ampelopsis arborea

Hypericum

Hypericum sp.

Tamarisk; Saltcedar

Tamarix gallica

Rockrose

Helianthemum corymbosum

Prickly-pear

Opuntia sp.

Devil's-walking-stick

Aralia spinosa

Pennywort

Hydrocotyle sp.

Buckthorn Bumelia

Bumelia tenax

Angle-pod

Matelea subserosa

Ground-ivy; Ponyfoot

Dichandra carolinensis

Morning-glory

Ipomoea sp.

Brazilian Vervain

Verbena braziliensis

Fog-fruit

Lippia nodiflora

Beautyberry

Callicarpa americana

Wood Sage; Germander

Teucrium canadense

Toadflax

Linaria canadensis

Cross Vine

Anisostichus capreolata

Trumpet Vine

Campsis radicans

Trailing Bluets

Houstonia procumbens

American Elderberry

Sambucus canadensis

Marsh-elder

Iva frutescens

Beach-elder

Iva imbricata

Pyrrhopappus

Pyrrhopappus carolinianus

Dog-fennel

Eupatorium capillifolium

Mistflower; Ageratum

Eupatorium coelestinum

Climbing Hempweed

Mikania scandens

Rabbit-tobacco

Gnaphalium obtusifolium

False-willow

Baccharis angustifolia

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

Salt-marsh Goldenrod

Solidago sempervirens

Camphorweed

Heterotheca subaxillaris

Sea Ox-eye

Borrchia frutescens

FAUNA

Sea-whip

Leptogorgia virgulata

Deadman's-fingers (sponge)

Briareum asbestinum

Five-holed Keyhole Urchin

Mellita quinquesperforata



Fallen trees sculpt the beaches of Bull Island.

(Photos by A. Ciegler)

Brown Sea-cucumber
Sclerodactyla briareus
Worm Shell
Vermicularia knorrii
Common Slipper (snail)
Crepidula fornicata
Southern Moon Snail; Shark-eye
Polydora duplicatus
Channeled Whelk
Busycon canaliculatum
Knobbed Whelk
Busycon carica
Lightning Whelk
Busycon contrarium
Whelk (egg case)
Busycon sp.
Lettered Olive (snail)
Oliva sayana
Incongruous Ark
Anadara brasiliana
Ponderous Ark
Noetia ponderosa
Half-naked Pen (shell)
Atrina seminauda
Amber Pen (shell)
Perna carnea
Eastern Oyster
Crassostrea virginica
Jingle Shell
Anomia simplex
Giant Atlantic Cockle
Dinocardium robustum
Dwarf Surf Clam
Malinla lateralis
Jack-knife Clam
Tagelus plebeius
Florida Coquina
Donax variabilis
Cross-barred Venus (shell)
Chione cancellata
Disk (shell)
Dosinia discus
Angel-wing (shell)
Cyrtopleura costata
Atlantic Horseshoe Crab
Limulus polyphemus
Rock Barnacle
Balanus sp.
Gulf Calico Crab
Hepatus epheliticus
Spider Crab
Libinia sp.
Common Blue Crab
Callinectes sapidus
Ghost Crab
Ocypode quadrata
Band-winged Grasshopper
Pseudotettigonia fenestrata
Red-legged Grasshopper
Melanoplus femurrubrum
Obscure Bird Grasshopper
Schistocerca obscura
Field Cricket
Gryllus sp.
Mole Cricket
Scapteriscus sp.

Antlion; Doodlebug
Myrmecoleon sp.
Live-oak Potato Gall (wasp)
Plagiostrochus batatoides
Dung Beetle
Onthophagus hecate
Gulf Frillfly
Agraulis vanillae
Angewing (butterfly)
Polygona sp.
Common Buckeye (butterfly)
Junonia coenia
Evergreen Bagworm Moth
Thyridopteryx ephemeriformis
Clearnose Skate (egg case)
Raja eglanteria
Common Loon
Gavia immer
Horned Grebe
Podiceps auritus
Brown Pelican
Pelecanus occidentalis
Anhinga; Snakebird
Anhinga anhinga
Double-crested Cormorant
Phalacrocorax auritus
Tricolored Heron
Egretta tricolor
Little Blue Heron
Egretta caerulea
Great Blue Heron
Ardea herodias
Bufflehead
Bucephala albeola
Red-breasted Merganser
Mergus serrator
Hooded Merganser
Lophodytes cucullatus
Clapper Rail
Rallus longirostris
Sora
Porzana carolina
Common Moorhen
Gallinula chloropus
American Oystercatcher
Haematopus palliatus
Semipalmated Plover
Charadrius semipalmatus
Killdeer
Charadrius vociferus
Black-bellied Plover
Pluvialis squatarola
Marbled Godwit
Limosa fedoa
Willit
Catoptrophorus semipalmatus
Greater Yellowlegs
Tringa melanoleuca
Red Knot
Calidris canutus
Dunlin
Calidris alpina
Sanderling
Calidris alba
Ruddy Turnstone
Arenaria interpres

Ring-billed Gull
Larus delawarensis
Herring Gull
Larus argentatus
Forster's Tern
Sterna forsteri
Turkey Vulture
Cathartes aura
Northern Harrier
Circus cyaneus
Red-tailed Hawk
Buteo jamaicensis
Osprey (nest)
Pandion haliaetus
American Kestrel
Falco sparverius
Wild Turkey
Meleagris gallopavo
Mourning Dove
Zenaidura macroura
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus
Red-headed Woodpecker
Melanerpes erythrocephalus
Northern Flicker
Colaptes auratus
Yellow-bellied Sapsucker
Sphyrapicus varius
Eastern Phoebe
Sayornis phoebe
House Wren
Troglodytes aedon
Carolina Wren
Thryothorus ludovicianus
Marsh Wren
Cistothorus palustris
Golden-crowned Kinglet
Regulus satrapa
Ruby-crowned Kinglet
Regulus calendula
Hermit Thrush
Catharus guttatus

Loggerhead Shrike
Lanius ludovicianus
Gray Catbird
Dumetella carolinensis
Northern Mockingbird
Mimus polyglottos
European Starling
Sturnus vulgaris
Yellow-rumped Warbler
Dendroica coronata
Yellowthroat
Geothlypis trichas
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Song Sparrow
Melospiza melodia
Chipping Sparrow
Spizella passerina
White-throated Sparrow
Zonotrichia albicollis
Swamp Sparrow
Melospiza georgiana
Eastern Meadowlark
Sturnella magna
Red-winged Blackbird
Agelaius phoeniceus
Boat-tailed Grackle
Quiscalus major
Eastern Fox Squirrel (tracks)
Sciurus niger
Red Wolf (tracks)
Canis rufus
Raccoon (tracks)
Procyon lotor
River Otter (sign)
Lutra canadensis
Bobcat; Wildcat
Felis rufus
Bottle-nosed Dolphin
Tursiops truncatus
White-tailed Deer (tracks)
Odocoileus virginianus

Red Knot, *Calidris canutus*.

(Photo by A. Ciegler)

Santee River Delta Charleston County

The Wedge, March 12, 1988
Washo Reserve, February 25, 1995

These sites, just a few miles apart on the Santee River delta, feature old rice ponds and both maritime and coastal plain woodlands. In addition, Santee Coastal Reserve has an old freshwater pond known as Washo Reserve. Its function was to provide an emergency supply of freshwater to the people on the coast. Today it has swampy edges and a large colony of nesting osprey in the more open area of the pond. Also, there are large areas of higher, dryer coastal plain forests and old rice ponds with brackish water. Because much of the reserve has not been recently disturbed, less common plants and animals are often observed.

The Wedge, at the time SCAN visited, was a research facility owned and operated by the University of South Carolina for research and teaching in the area of tropical vector-borne diseases. It housed an excellent moth specimen collection collected by the previous plantation owner, Dr. Richard Dominick. Many areas on the plantation had been developed to attract insects for study purposes. It is currently closed to the public.

Washo Reserve is owned by the South Carolina Department of Natural Resources.

Directions to the Santee River Delta: From Georgetown take US-17 south toward Charleston. After about 15 miles, the road crosses the South Santee River and enters Charleston County. Travel 1 mile, then turn left onto County Road S 10-857 (South Santee Road). For The Wedge, drive about 1 mile, then turn left again at the sign to the plantation. The main office is about a mile down the driveway, and the laboratory is through the gate beyond the office. For the Washo Reserve, drive 2 miles from US 17, then bear left on Santee Club Road; bear left again at the next fork in the road. The parking lot is ahead on the right.



FLORA

Lichen

Graphis scripta
Graphis elegans
Glyphis cicatricosa
Gymnostoma scyphuliferum
Meruloluna nitida
Coenogonium interplexum
Bacidia clementis
Brigitantia leucosticta
Cladonia rhomphalea
Cladonia coniocraea
Cladonia didyma
Cladonia ochroleuca
Cladonia peziziformis
Cladonia subradiata
Pertusaria copiosa
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subperiosa
Pertusaria texana

Haematomma pusillum
Haematomma elatum
Haematomma cismonicum
Lecanora capressi
Lecanora varia
Lecanora hybocarpa
Lecanora caesiobubella subsp. *caesiobubella*
Ochrolechia africana
Bulbothrix goebelii
Bulbothrix goebelii f. *minor*
Hypotrachyna livida
Hypotrachyna pustulifera
Parmelia aurulenta
Parmelia minarum
Parmeliopsis subambigua
Parmotrema dilatatum
Parmotrema hypotrachyna
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampodense
Parmotrema tinctorum

Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rufecta
Rimelia reticulata
Rimelia subdisidiosa
Usnea ceratina
Usnea mutabilis
Usnea rubicunda
Usnea strigosa
Buellia curatellae
Dirinaria aspera
Dirinaria confusa
Dirinaria picta
Dirinaria purpurascens
Heterodermia albicans
Heterodermia casarettiana
Heterodermia speciosa
Heterodermia spaltians sp. nov.
Pyxine caesiopruinosa
Pyxine sordidata
Campylothelium amylosporium
Pyrenula cruenta

Eopyrenula leucoplaca
Clathroporina sp.
Calicium abietinum
Ariothelium interveniens
Trypethelium mastoideum
Trypethelium virens
Porina sp.
Peat Moss
Sphagnum sp.
Bracken
Pteridium aquilinum
Sensitive Fern
Onoclea sensibilis
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris

Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana
Southern Red-cedar
Juniperus silicicola
Narrow-leaved Cat-tail
Typha angustifolia
Bur-reed
Spartanum americanum
Spotted Pondweed
Potamogeton pulcher
Arrowhead; Duck-potato
Sagittaria sp.
Cane; Switch Cane
Arundinaria gigantea
Spike Grass
Ustilago sessiliflora
Wild Rye Grass
Elymus virginicus
Cord Grass
Spartina cynosuroides
Foxtail Grass
Setaria sp.
Gamma Grass
Tripsacum dactyloides
Dwarf Palmetto
Sabal minor
Cabbage Palmetto
Sabal palmetto
Duckweed
Lemna sp.
Bogmat
Wolffella floridana
Spanish-moss
Tillandsia usneoides
Black Needle Rush
Juncus roemerianus
Rush
Juncus sp.
Fringed Greenbrier
Smilax bona-nox
False Garlic
Allium bivalve
Narcissus
Narcissus sp.
Swamp Willow
Salix caroliniana
Wax-myrtle; Southern Bayberry
Myrica cerifera
White Oak
Quercus alba
Post Oak
Quercus stellata
Live Oak
Quercus virginiana
Black Jack Oak
Quercus marilandica
Water Oak
Quercus nigra
Laurel Oak
Quercus laurifolia
Mistletoe
Phoradendron serotinum

Sorrel; Dock
Rumex sp.
Polygonum
Polygonum sp.
Common Chickweed
Stellaria media
Mouse-ear Chickweed
Cerastium glomeratum
Hornwort
Ceratophyllum demersum
Water-lily
Nymphaea odorata
Sweetbay
Magnolia virginiana
Southern Magnolia
Magnolia grandiflora
Redbay
Persea borbonia
Sassafras
Sassafras albidum
Hairy Bitter Cress
Cardamine hirsuta
Bitter Cress
Cardamine pensylvanica
Virginia-willow
Itea virginica
Sweet-gum
Liquidambar styraciflua
Dewberry
Rubus trivialis
Cherokee Rose
Rosa laevigata
Redbud; Judas-tree
Cercis canadensis
Honey Locust
Gleditsia triacanthos
Sesbania
Sesbania exaltata
Bladderpod
Glottidium vesicarium
American Wisteria
Wisteria frutescens
Cranesbill
Geranium carolinianum
Chinaberry
Melia azedarach
American Holly
Ilex opaca
Yaupon
Ilex vomitoria
Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
St.-Andrew's-cross
Hypericum hypericoides
Primrose-leaved Violet
Viola primulifolia
Violet
Viola sp.
Meadow-beauty
Rhexia sp.
Seed-box
Ludwigia alternifolia
Water Pennywort
Hydrocotyle ranunculoides

Pennywort
Hydrocotyle sp.
Blackgum
Nyssa sylvatica
Water Tupelo
Nyssa aquatica
Flowering Dogwood
Cornus florida
Sweet Pepperbush
Clethra alnifolia
Spotted Wintergreen
Chimaphila maculata
Fetterbush
Lyonia lucida
Blueberry
Vaccinium sp.
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Yellow Jessamine
Gelsemium sempervirens
Periwinkle
Vinca major
Common Henbit
Lamium amplexicaule
Nightshade
Solanum sp.
Corn Speedweel; Veronica
Veronica arvensis
Trumpet Vine
Campsis radicans
Floating Bladderwort
Utricularia inflata
Partridge-berry
Mitchella repens
Small Bluets
Houstonia missillia
Bedstraw; Purple-bead
Gallium hispidulum
American Elderberry
Sambucus canadensis
Facelis
Facelis retusa
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Carbon-balls (fungus)
Daldinia concentrica
Collybia (mushroom)
Collybia sp.

FAUNA

Cloudless Sulphur
Phoebastria senae cubile
Sleepy Orange (butterfly)
Eurema nicippe
Eastern Tailed-blue(butterfly)
Eurema corymbosa
Gulf Fritillary
Agraulis vanillae
American Lady (butterfly)
Vanessa virginensis
Polyphemus Moth
Antheraea polyphemus
Sweetbay Silkworm
Callosamia securifera

Green Treefrog
Hyla cinerea
American Alligator
Alligator mississippiensis
Carolina Anole
Anolis carolinensis
Ground Skink
Scincella lateralis
Pied-billed Grebe
Podilymbus podiceps
Double-crested Cormorant
Phalacrocorax auritus
Tricolored Heron
Egretta tricolor
Little Blue Heron
Egretta caerulea
Snowy Egret
Egretta thula
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
White Ibis
Eudocimus albus
Mallard
Anas platyrhynchos
Green-winged Teal
Anas crecca
American Wigeon
Anas americana
Northern Pintail
Anas acuta
Northern Shoveler
Anas clypeata
Blue-winged Teal
Anas discors
Ring-necked Duck
Aythya collaris
Greater Scaup
Aythya marila
Lesser Scaup
Aythya affinis
Common Goldeneye
Bucephala clangula
Bufflehead
Bucephala albeola
Red-breasted Merganser
Mergus serrator
Hooded Merganser
Lophodytes cucullatus
Clapper Rail
Rallus longirostris
American Coot
Fulica americana
Killdeer
Charadrius vociferans
Greater Yellowlegs
Tringa melanoleuca
Lesser Yellowlegs
Tringa flavipes
Ring-billed Gull
Larus delawarensis
Royal Tern
Sterna maxima
Turkey Vulture
Cathartes aura

Santee River Delta (continued)
March 12, 1988, and February 25, 1995

Black Vulture*Coragyps atratus***Bald Eagle***Haliaeetus leucocephalus***Northern Harrier***Circus cyaneus***Osprey***Pandion haliaetus***American Kestrel***Falco sparverius***Wild Turkey***Meleagris gallopavo***Mourning Dove***Zenaida macroura***Belted Kingfisher***Ceryle alcyon***Red-bellied Woodpecker***Melanerpes carolinus***Red-headed Woodpecker***Melanerpes erythrocephalus***Northern Flicker***Colaptes auratus***Yellow-bellied Sapsucker***Sphyrapicus varius***Pileated Woodpecker***Dryocopus pileatus***Eastern Phoebe***Sayornis phoebe***Tree Swallow***Ichthyophaga bicolor***Blue Jay***Cyanocitta cristata***Fish Crow***Corvus ossifragus***Tufted Titmouse***Parus bicolor***Carolina Chickadee***Parus carolinensis***Brown-headed Nuthatch***Sitta pusilla***Ruby-crowned Kinglet***Regulus calendula***Eastern Bluebird***Sialia sialis***Hermit Thrush***Catharus guttatus***American Robin***Turdus migratorius***Northern Mockingbird***Mimus polyglottos***Brown Thrasher***Toxostoma rufum***Cedar Waxwing***Bombycilla cedrorum***Solitary Vireo***Vireo solitarius***Yellow-rumped Warbler***Dendroica coronata***Yellow-throated Warbler***Dendroica dominica***Pine Warbler***Dendroica pinus***Yellowthroat***Geothlypis trichas***Northern Cardinal***Cardinalis cardinalis***Rufous-sided Towhee***Pipilo erythrophthalmus***Song Sparrow***Melospiza melodia***Chipping Sparrow***Spizella passerina***Dark-eyed Junco***Junco hyemalis***White-throated Sparrow***Zonotrichia albicollis***Red-winged Blackbird***Agelaius phoeniceus***Gray Squirrel***Sciurus carolinensis***Eastern Fox Squirrel***Sciurus niger***Beaver (gnaw mark)***Castor canadensis***Raccoon***Procyon lotor***Mink***Mustela vison***River Otter (tracks) (scat)***Lutra canadensis***Wild Pig***Sus scrofa***White-tailed Deer (tracks)***Odocoileus virginianus*

(Photo by V. Wint)

Julie Finlayson checks out an old rice-paddy dike for creatures.



(Photo by L. Greenlee)

Polyphemus moth, female (left) and male (above), *Antheraea polyphemus*.

St. Christopher Camp and Conference Center
(Barrier Island Environmental Education Program, Seabrook Island)
Charleston County
October 21 - 23, 1994

St. Christopher Camp is on the remote western end of Seabrook Island, providing a refuge for the natural world on an otherwise highly developed barrier island. We were given the opportunity to explore the beachfront along the mouth of the N. Edisto River. These yielded marine and estuarine life, beach, intertidal zone and dunes habitat, plus over 100 acres of salt marsh, 200 acres of maritime forest containing many sloughs, an extensive freshwater swamp, and 2 freshwater ponds! Many of us gave blood to the cause of the local mosquitoes. Our 'lichen-man' Alex Ciegler discovered a new lichen growing on *Ilex opaca* in the forest which he plans to name *Lecidea christophora* in honor of the camp.

Owened and operated by the South Carolina Diocese of the Episcopal Church. Access by prior arrangement only.

Directions to St. Christopher Camp and Conference Center:

From Charleston take US-17 south toward Savannah. Note the intersection with I-526 (Mark Clark Expressway) and continue on US-17 for 4.6 miles past that intersection. Turn left (south) on County Road S 10-20, where signs direct you toward Seabrook and Kiawah Islands. Continue south on S 10-20 down Bohicket Road all the way to Seabrook Island, 19-20 miles. Permission must be obtained in advance to pass through the guarded gate. Travel 2-3 miles, and the entrance to the conference center is on the right. Pass the camp on your left until you see the conference facilities where the offices are located.



Science and Nature Notes: Comb Jellyfishes

In our exploring of the intertidal zone, several comb jellies were caught in the seine. Closely related to jellyfishes, comb jellies look like blobs of transparent jelly. Instead of swimming by contracting a bell, as the jellyfishes do, a comb jelly uses eight rows of ctenes (comblike tufts of microscopic hairs) to propel itself; it swims through the water, engulfing plankton with its huge mouth. Each row of these minute combs is iridescent during the day and luminescent at night. When conditions are right at night, any disturbance of the ocean surface causes these creatures to glow like small light bulbs.

FLORA

Dead Man's Fingers Seaweed

Codium sp.

Sea Lettuce

Ulva sp.

Lichen

Graphis scripta

Graphis leucopella

Graphis elegans

Lecidea christophora

Letroitia domingense

Pertusaria ostiolata

Pertusaria paratuberculifera

Pertusaria propinqua

Pertusaria texana

Pertusaria sinuomexicana

Maronea constans

Lecanora cypressi

Lecanora varia

Ochrolechia africana

Bulbothrix goebelii

Bulbothrix goebelii f. minor

Hypotrachyna pustulifera

Parmelia auralenta

Parmelia misurum

Parmotrema crinitum

Parmotrema hypotrypanum

Parmotrema michaelianum

Parmotrema perforatum

Parmotrema rampodense

Parmotrema tinctorum

Parmotrema ultralucens

Canoparmelia caroliniana

Punctelia rufecta

Rimelia reticulata

Ramalina americana

Usnea strigosa

Dirinaria confusa

Dirinaria picta

Dirinaria purpurascens

Physcia americana

Physcia crispa

Physcia millegrana

Physcia sorediosa

Heterodermia albicans

Heterodermia spatulosa sp. nov.

Campylotheium anisoporum

St. Christopher Camp and Conference Center (continued)

October 21-23, 1994

Pyrenula cruenta
Trypselium virens
Schismatomma rudecta
Leparia sp.
Floating Liverwort
Ricciocarpus natans
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Spruce Pine
Pinus glabra
Southern Red-cedar
Juniperus silicicola
Common Cat-tail
Typha latifolia
Sea Oats
Uniola paniculata
Coastal Dropseed
Sporobolus virginicus
Bermuda Grass
Cynodon dactylon
Cord Grass
Spartina patens
Smooth Cord Grass
Spartina alterniflora
Giant Foxtail Grass
Setaria magna
Dune Sandbur
Cenchrus tribuloides
Oplismenus (grass)
Oplismenus setarius
Seaside Panic Grass
Panicum amarum
Dwarf Palmetto
Sabal minor
Cabbage Palmetto
Sabal palmetto
Spanish-moss
Tillandsia usneoides
Fringed Greenbrier
Smilax bona-nox
Dune Greenbrier
Smilax auriculata
Sarsaparilla-vine
Smilax pumila
Mound-illy Yucca
Yucca gloriosa
Black Willow
Salix nigra
Wax-myrtle; Southern Bayberry
Myrica cerifera
Live Oak
Quercus virginiana
Willow Oak
Quercus phellos

Laurel Oak
Quercus laurifolia
Sugarberry; Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
False Nettle
Boehmeria cylindrica
Water Smartweed
Polygonum densiflorum
Dotted Smartweed
Polygonum punctatum
Climbing Buckwheat; Bindweed
Polygonum convolvulus
Mexican-tea
Chenopodium ambrosioides
Seabeach Orach
Atriplex arenaria
Marsh Orach
Atriplex patula
Perennial Glasswort
Salicornia virginica
Russian-thistle
Salsola kali
Southern Magnolia
Magnolia grandiflora
Redbay
Persea borbonia
Sassafras
Sassafras albidum
Sea-rocket
Calixte harperi
Sweet-gum
Liquidambar styraciflua
Carolina Cherry-laurel
Prunus caroliniana
Rattlebox
Crotalaria spectabilis
Beggar-lice
Desmodium sp.
Sesbania
Sesbania exaltata
Coral-bean
Erythrina herbacea
Beach-pea; Wild Bean
Strophostyles helvola
Hercules'-club
Zanthoxylum clava-herculis
Silverleaf Croton
Croton punctatus
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Yaupon
Ilex vomitoria
Red Maple
Acer rubrum
Shellmound-shrub
Sagertia miniiflora

Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Fox Grape
Vitis labrusca
Pepper-vine
Ampelopsis arborea
Prickly-pear
Opuntia compressa
Devil's-walking-stick
Aralia spinosa
Dune Pennywort
Hydrocotyle bonariensis
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Sparkleberry
Vaccinium arboreum
Buckthorn Bumelia
Bumelia lycioides
Persimmon
Diospyros virginiana
Wild Olive
Osmanthus americana
Yellow Jessamine
Gelsemium sempervirens
Ivy-leaf Morning-glory
Ipomoea hederacea
Fiddle-leaf Morning-glory
Ipomoea stolonifera
Fog-fruit
Lippia nodiflora
Beautyberry
Callicarpa americana
Wood Sage; Germander
Teucrium canadense
Dotted Horsemint
Monarda punctata
Cross Vine
Anisostichus capreolata

Trumpet Vine
Campsis radicans
Partridge-berry
Mitchella repens
Bedstraw; Purple-bead
Galium hispidulum
American Elderberry
Sambucus canadensis
Marsh-elder
Iva frutescens
Beach-elder
Iva imbricata
Common Ragweed
Ambrosia artemisiifolia
Cocklebur
Xanthium strumarium
Elephant's-foot
Elephantopus tomentosus
Dog-fennel
Eupatorium capillifolium
Mistflower; Ageratum
Eupatorium coelestinum
Climbing Hempweed
Mikania scandens
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Salt-marsh Aster
Aster tenuifolius
Aster
Aster sp.
Goldenrod
Solidago sp.
Camphorweed
Heterotheca subaxillaris
Sea Ox-eye
Borrichia frutescens
Wing-stem
Verbesina virginica
Chicken Mushroom
Laetiporus sulphureus
Elegant Polypore
Polyporus varius

Chicken mushroom, *Laetiporus sulphureus*.

(Photo by S. Simons)



(Photo by L. Greenlee)

Mud fiddler crab, *Uca pugnax*.**Crowded Parchment***Stereum complicatum***Fly Agaric***Amanita muscaria***Destroying-angel***Amanita virosa***Deadly Galerina***Galerina autumnalis***Corrugated-cap Milky***Lactarius corrugis***Family Collybia***Clitocybula familia***Little Brown Collybia***Collybia alkalivirens***Common Mycena***Mycena galeata***Magnolia-cone Mushroom***Strobilurus conigenoides***Rounded Earthstar***Geastrum saccatum***FAUNA****Sea-whip***Leptogorgia virgulata***Deadman's-fingers (sponge)***Briareum asbestinum***Hermit Crab Anemone***Calliactis tricolor***Northern Cup Coral***Astrangia danae***Star Coral***Favia fragum***Beroe's Comb-jelly***Beroe ovata***Five-holed Keyhole Urchin***Mellita quinqueperforata***Striped Sea-cucumber***Thyonella gemmata***Rubbery Bryozoan***Alcyonidium huxfi***Variable Crust Bryozoan***Schizoporella errata***Cayenne Keyhole Limpet (shell)***Diodora cayenensis***Marsh Periwinkle; Mud Snail***Littorina irrorata***Common Slipper (snail) (shell)***Crepidula fornicata***Flat Slipper (snail) (shell)***Crepidula plana***Southern Moon Snail; Shark-eye***Polinices duplicatus***Baby's-ear (shell) (shell)***Sinuum perspectivum***Thick-lipped Oyster-drill***Eupleura caudata***Channeled Whelk***Busycon canaliculatum***Knobbed Whelk***Busycon carica***Lightning Whelk***Busycon contrarium***Banded Tulip (snail) (shell)***Fasciolaria hunteria***Lettered Olive (snail)***Olivella sayana***Augur Snail***Terebra sp.***Incongruous Ark***Anadara brasiliana***Blood Ark***Anadara ovalis***Transverse Ark***Anadara transversa***Ponderous Ark (shell)***Noella ponderosa***Pen (shell)***Atrina sp.***Eastern Oyster***Crassostrea virginica***Cat's-paw; Kitten's-paw (shell)***Plicatula gibbosa***Jingle Shell***Anomia simplex***Giant Atlantic Cockle (shell)***Dinocardium robustum***Atlantic Razor Clam (shell)***Ensis directus***Coquina (shell)***Donax sp.***Disk (shell)***Dosinia discus***Northern Quahog Clam (shell)***Mercenaria mercenaria***Angel-wing (shell)***Cyrtopleura costata***Roofing Worm; Shingle Tubeworm***Owenia fusiformis***Atlantic Horseshoe Crab (shell)***Limulus polyphemus***Sea-whip Barnacle***Conopea galeata***Ivory Barnacle***Balanus eburneus***Rock Barnacle***Balanus sp.***Saltmarsh Beachhopper***Orchestia grillus***Ghost Shrimp (scat)***Callinassa sp.***Green-striped Hermit Crab***Clibanarius vittatus***Flat-clawed Hermit Crab***Pagurus pollicaris***Gulf Calico Crab (shell)***Hepatus epheliticus***Mottled Purse Crab***Persephona mediterranea***Speckled Crab***Arenaeus cribrarius***Blue Crab***Callinectes similis***Lady Crab (shell)***Ovalipes ocellatus***Ghost Crab***Ocypode quadrata***Mud Fiddler Crab***Uca pugnax***Sand Fiddler Crab***Uca pugilator***Orchard Spider***Leucage venusta***Leather-color Bird Grasshopper***Schistocerca alutacea***Palmetto-bug***Scaphocryptus fuliginosa***Leaf-footed Yucca Bug***Leptoglossus sp.***Water-scorpion***Ranatra sp.***Fire Ant (nest)***Solenopsis sp.***Black Salt-marsh Mosquito***Aedes taeniorhynchus***Fall Woodlands Mosquito***Aedes infirmatus***Golden Salt-marsh Mosquito***Aedes sollicitans***Unmarked Slender Mosquito***Culiseta inornata***Common Green Darner***Anax junius***Eastern Pondhawk***Erythemis simplicicollis***Blue Dasher***Pachydiplax longipennis***Wandering Glider***Pantala flavescens***Eastern Amberwing (dragonfly)***Perithemis tenera***Glider***Tramea sp.***Roseate Skimmer (dragonfly)***Orthemis ferruginea***Tiger Beetle***Cicindela sp.***Crawling Water Beetle***Peltodytes dietrichi***Water Scavenger Beetle***Tropisternus quadristriatus***Smartweed Flea Beetle***Disonychys pensylvanicus***Cloudless Sulphur***Phoebastria senae eubule***Little Yellow (butterfly)***Eurema lisa***Gulf Fritillary***Agraulis vanillae***Zebra (butterfly)***Heliconius charitonius tuckeri***Common Buckeye (butterfly)***Junonia coenia***Monarch (butterfly)***Danaus plexippus***Long-tailed Skipper***Urbanus proteus***Atlantic Silverside Fish***Menidia menidia***Skate (egg case)***Raja sp.***Puffer Fish; Globefish***Chilomycterus sp.***Mackerel***Scomber sp.***Green Treefrog***Hyla cinerea***Loggerhead Sea Turtle (egg)***Caretta caretta***Carolina Anole***Anolis carolinensis***Ground Skink***Scincella lateralis***Common Loon***Gavia immer***Brown Pelican***Pelecanus occidentalis***Double-crested Cormorant***Phalacrocorax auritus***Great Egret***Casmerodius albus***Great Blue Heron***Ardea herodias***Black-bellied Plover***Pluvialis squatarola***Willet***Catoptrophorus semipalmatus***Sanderling***Calidris alba***Laughing Gull***Larus atricilla*

St. Christopher Camp and Conference Center (continued)
October 21-23, 1994

Ring-billed Gull
Larus delawarensis
Royal Tern
Sterna maxima
Caspian Tern
Sterna caspia
Black Skimmer
Rhynchops niger
Turkey Vulture
Cathartes aura
Red-shouldered Hawk
Buteo lineatus
Red-tailed Hawk
Buteo jamaicensis
Osprey
Pandion haliaetus
Peregrine Falcon
Falco peregrinus
Mourning Dove
Zenaidura macroura
Eastern Screech-owl
Otus asio
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus

Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
Tree Swallow
Iachycineta bicolor
Purple Martin
Progne subis
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
House Wren
Troglodytes aedon
Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula
Gray Catbird
Dumetella carolinensis
Northern Mockingbird
Mimus polyglottos
Brown Thrasher
Taxastoma rufum
Red-Eyed Vireo
Vireo olivaceus

Black-throated Blue Warbler
Dendroica caerulescens
Northern Cardinal
Cardinalis cardinalis
Boat-tailed Grackle
Quiscalus major
Summer Tanager
Piranga rubra
Gray Squirrel
Sciurus carolinensis

Bottle-nosed Dolphin
Tursiops truncatus
White-tailed Deer (tracks)
Odocoileus virginianus

FOSSILS

Scallop
Pecten sp.



Glasswort, *Salicornia* sp.

(Photo by B. Goben)



Cherokee County

Old Cherokee Ironworks and Silver Mine Ridge

Cherokee County

February 24, 1990

Old Cherokee Ironworks, a pre-Civil War iron smelting company, is an interesting ruins, with natural and cultural history to see. Over the years, the remnants of canals, the kiln, and the commissary have been overgrown with vines and undergrowth. Gravel, made of slag from the furnaces, was used for fill on roads and can still be found. Bricks revealed thumbprints, evidence of their hand craftsmanship.

In the remains of a canal, a large maggot was found that proved to be a rat-tailed maggot. The adult fly is a bee mimic, yellow and black, that feeds on nectar and pollen. The female lays sticky, elongated white eggs in crevices near stagnant water or in manure. The aquatic larva breathes through very long snorkel-like tubes at the tip of the abdomen.

After lunch, we drove to a slightly different area to walk a trail along Doolittle Creek which led to a view of the old entrance to a now defunct silver mine. Chorus frogs serenaded us at both sites. When we returned to our cars, we found a reporter from a local newspaper waiting to find out what so many people found interesting in his part of the county. We hope he went back later and did a story on the historical aspects of the area. SCAN appreciated Dr. Bobby Moss, retired from Lander College, for guiding us to these sites and providing the necessary historical background to appreciate what we were seeing.

Both sites are owned by the Gaffney Historical Society.

Directions to Old Cherokee Ironworks and Silver Mine Ridge: From Gaffney, take US 29 east toward Blacksburg. Turn right (south) onto SC 329, and go 1.0 mile to County Road S 11-50 (Ford Road). Turn left and go approximately 0.5 mile; park along the road. The entrance to the Ironworks is on the left and is hard to spot. From the Ironworks to the Silver Mine, go back to SC 329, turn right (north), and turn right again onto US 29. Cross the Broad River on a steel bridge, and go 1.9 miles past the bridge. Turn right at the sign for Cherokee Falls (S 11-30) and drive approximately 1.5-2.0 miles. As you go around a left hand curve, there will be a pull-off on the left side of the road; park there and walk in.



FLORA

Lichen

Cladonia cristatella
Hypotrachyna livida
Parmelia sulcata
Parmotrema hypotrachyna
Parmotrema perforatum
Pseudoparmelia sp.
Ramalina americana
Usnea strigosa
Usnea trichodea
Usnea sp.
Lepraria sp.

Apple Moss

Bartramia pomiformis

Running-pine

Lycopodium flabelliforme

Christmas Fern

Polystichum acrostichoides

Ebony Spleenwort

Asplenium platyneuron

Loblolly Pine

Pinus taeda

Virginia Pine; Scrub Pine

Pinus virginiana

Eastern Red-cedar

Juniperus virginiana

Cane; Switch Cane

Arundinaria gigantea

Woodrush

Luzula echinata

Dog's-tooth-violet

Erythronium americanum

Crane-fly Orchid

Tipularia discolor

Puttyroot; Adam-and-Eve

Apictrum hyemale

Tag Alder

Alnus serrulata

River Birch

Betula nigra

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

Winged Elm

Ulmus alata

Wild Ginger

Hexastylis minor

Tulip-poplar

Liriodendron tulipifera

PawPaw

Asimina triloba

Sweet-shrub; Carolina-allspice

Calycanthus floridus

Bloodroot

Sanguinaria canadensis

Stonewort

Scium ternatum

Sweet-gum

Liquidambar styraciflua

Witch-hazel

Hamamelis virginiana

American Sycamore

Platanus occidentalis

Hawthorn

Crataegus sp.

Downy Serviceberry

Amelanchier arborea

Black Cherry; Wild Cherry

Prunus serotina

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

American Holly

Ilex opaca

Hearts-a-burstin'-with-love

Euonymus americanus

Boxelder

Acer negundo

Red Maple

Acer rubrum

Summer Grape

Vitis aestivalis

Halberd-leaved Violet

Viola hastata

Blackgum

Nyssa sylvatica

Flowering Dogwood

Cornus florida

Spotted Wintergreen

Chimaphila maculata

Mountain-laurel

Kalmia latifolia

Dog-hobble

Leucothoe axillaris

Sourwood

Oxydendron arboreum

Sparkleberry

Vaccinium arboreum

Galax; Galaxy; Coltsfoot

Galax aphylla

Yellow Jessamine

Gelsemium sempervirens

Cross Vine

Anisostichus capreolata

Partridge-berry

Mitchella repens

Viburnum

Viburnum sp.

Pussy-toes

Antennaria solitaria

Green-and-gold

Chrysogonum virginianum australe

Black-knot

Apiosporina morbosus

FAUNA

Asiatic Clam

Corbicula manilensis

Bowl-and-dolly Spider

Frontinella pyramitella

Red Velvet Mite

Trombidium sp.

Carolina Mantid (egg)

Stagmomantis carolina

Blackberry Knot Gall (wasp)

Diastrophus nebulosus

Pine Needle Gall (midge)

Janetella coloradensis

Rat-tailed Maggot

Eristalis tenax

Woodland Ground Beetle

Piezomus mondelus

Shining Leaf Beetle

Lema sp.

Spring Azure (butterfly)

Celastrina ladon

Mourning Cloak

Nymphalis antiopa

Polypheumus Moth (cocoon)

Antheraea polyphemus

Upland Chorus Frog (call)

Pseudacris triseriata

Turkey Vulture

Cathartes aura

American Kestrel

Falco sparverius

Yellow-bellied Sapsucker

Sphyrapicus varius

American Crow

Corvus brachyrhynchos

Golden Mouse

Ochrotomys nuttalli

Raccoon (tracks)

Procyon lotor

White-tailed Deer (scat)

Odocoileus virginianus



(Photo by V. Wiest)
 Christmas Fern, *Polystichum acrostichoides*.



Chester County

Landsford Canal State Park Chester County October 25, 1986, and July 25, 1992

Landsford Canal State Park offers both cultural and natural history lessons, for it encompasses the remnants of an old canal and the surrounding low Piedmont woodlands.

The canal was built in the early 1800's to divert barges around the rocky shoals of this part of the Catawba River. Over 1,000 artisans labored to form locks and bridges of stone, their handiwork sophisticated even by today's standards. Incredibly, the whole project was abandoned soon after completion in 1823. Today, the locks provide excellent habitat for skinks and other reptiles, including one very large copperhead sunning on our President's day-pack on the 1992 trip. It was carefully shooed away to less people-occupied areas!

Diverse habitats include the river, its floodplain, bluffs, and numerous tributaries with some rushing water. Accordingly, a great variety of uncommonly seen plants were noted from the trail. Thanks to Hurricane Hugo and some ice storms, the canopy was much more open in 1992 than on SCAN's earlier visits to the park. In addition, much more of the trail and the canal have been restored. The spider lilies were in bloom along the rocky shoals on the river in July. Many insects utilize the combination of open areas and forest edges, and birds abound in the diverse habitats.

In the years following SCAN's last visit, a pair of bald eagles set up housekeeping.

Directions to Landsford Canal State Park: From I-77 between Columbia and Rock Hill, take Exit 65 and go east on SC 9 to Richburg. As you enter town, turn left onto SC 223. Go about 7 miles and SC 223 will merge into US 21 heading north. Just after that junction, take the first right turn onto S 12-330 and go about 2 miles to the intersection with S 12-327. Continuing straight ahead will lead you to the lower entrance. To reach the main entrance and picnic ground, turn left (north) on S 12-327, go 1.3 miles, then make a right turn at the sign to the park.



FLORA

Lichen

Collema subflaccidum
Leptogium cyanescens
Graphis mosquitensis
Bacidia polytricha
Bacidia laurocerasi
Bacidia sp.
Leptogium austroriparium
Cladonia cristatella

Cladonia polycarpoides
Cladonia peziziformis
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria texana
Pertusaria caroliniana sp. nov.
Lecanora cupressi
Lecanora pallida
Lecanora varia
Lecanora allophana
Ochrolechia africana

Hypotrachyna livida
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema xanthinum
Flavoparmelia baltimorensis
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rufescens
Rimelia reticulata
Rimelia cetrata
Ramalina americana

Usnea strigosa
Usnea sp.
Buellia disciformis
Physcia americana
Physcia pseudospeciosa
Physcia stellaris
Heterodermia albicans
Heterodermia obscurata
Heterodermia speciosa
Pyxine caesiopruinosa
Pyxine sorediata

<i>Phacophyscia rubropulchra</i>	American Hornbeam; Ironwood	Blackberry; Brambles	Blackgum
<i>Phacophyscia sciastra</i>	<i>Carpinus caroliniana</i>	<i>Rubus</i> sp.	<i>Nyssa sylvatica</i>
<i>Calopha flavovirescens</i>	Beech	Black Cherry; Wild Cherry	Flowering Dogwood
<i>Arthonia rubella</i>	<i>Fagus grandifolia</i>	<i>Prunus serotina</i>	<i>Cornus florida</i>
Horsetail	White Oak	Mimosa; Silk-tree	Highbush Blueberry
<i>Equisetum hyemale affine</i>	<i>Quercus alba</i>	<i>Albizia julibrissin</i>	<i>Vaccinium corymbosum</i>
Grape Fern; Moonwort	Post Oak	Redbud; Judas-tree	Blueberry
<i>Botrychium</i> sp.	<i>Quercus stellata</i>	<i>Cercis canadensis</i>	<i>Vaccinium</i> sp.
Bracken	Swamp Red Oak	Honey Locust	Water Pimpernel
<i>Pteridium aquilinum</i>	<i>Quercus shumardii</i>	<i>Gleditsia triacanthos</i>	<i>Samolus parviflorus</i>
Ebony Spleenwort	Scarlet Oak	Leadplant; Indigo-bush	Persimmon
<i>Asplenium platyneuron</i>	<i>Quercus coccinea</i>	<i>Amorpha</i> sp.	<i>Diospyros virginiana</i>
Pine	Spanish Oak	Beggar-lice	Horse-sugar; Sweetleaf
<i>Pinus</i> sp.	<i>Quercus falcata</i>	<i>Desmodium</i> sp.	<i>Symplocos tinctoria</i>
Eastern Red-cedar	Water Oak	Black Locust	Carolina Silverbell
<i>Juniperus virginiana</i>	<i>Quercus nigra</i>	<i>Robinia pseudo-acacia</i>	<i>Halesia carolina</i>
Water-plantain	Willow Oak	Hog-peanut	American Ash; White Ash
<i>Alisma subcordatum</i>	<i>Quercus phellos</i>	<i>Amphicarpa bracteata</i>	<i>Fraxinus americana</i>
Arrowhead; Duck-potato	Slippery Elm	Tree-of-heaven	Chinese Privet
<i>Sagittaria latifolia</i>	<i>Ulmus rubra</i>	<i>Ailanthus altissima</i>	<i>Ligustrum sinense</i>
Cane; Switch Cane	American Elm	Tarweed	Yellow Jessamine
<i>Arundinaria gigantea</i>	<i>Ulmus americana</i>	<i>Acalypha rhomboides</i>	<i>Gelsemium sempervirens</i>
River Oats	Winged Elm	Prostrate Spurge	Sabatia
<i>Uniola latifolia</i>	<i>Ulmus alata</i>	<i>Euphorbia supina</i>	<i>Sabatia</i> sp.
Paspalum (grass)	Sugarberry; Hackberry	Poison-ivy	Angle-pod
<i>Paspalum</i> sp.	<i>Celtis laevigata</i>	<i>Rhus radicans</i>	<i>Matelea</i> sp.
Sedge	Hackberry	Winged Sumac	Morning-glory
<i>Carex</i> sp.	<i>Celtis occidentalis georgiana</i>	<i>Rhus copallina</i>	<i>Ipomoea</i> sp.
Jack-in-the-pulpit	Red Mulberry	Smooth Sumac	Beautyberry
<i>Arisaema triphyllum</i>	<i>Morus rubra</i>	<i>Rhus glabra</i>	<i>Callicarpa americana</i>
Dayflower	False Nettle	American Holly	Lop-seed
<i>Commelina virginica</i>	<i>Boehmeria cylindrica</i>	<i>Ilex opaca</i>	<i>Phryma leptostachya</i>
Asian Spiderwort	Clearweed	Boxelder	Woolly Mullein
<i>Anilemma keiskei</i>	<i>Pilea pumila</i>	<i>Acer negundo</i>	<i>Verbascum thapsus</i>
Pickeringweed	Pinkweed	Red Maple	Cross Vine
<i>Pontederia cordata</i>	<i>Polygonum pennsylvanicum</i>	<i>Acer rubrum</i>	<i>Anisostichus capreolata</i>
Carrión-flower	Nodding Smartweed	Painted Buckeye	Trumpet Vine
<i>Smilax herbacea</i>	<i>Polygonum lapathifolium</i>	<i>Aesculus sylvatica</i>	<i>Campsis radicans</i>
Fringed Greenbrier	Mexican-tea	Buckeye	Catalpa; Catawba-tree
<i>Smilax bona-nox</i>	<i>Chenopodium ambrosioides</i>	<i>Aesculus</i> sp.	<i>Catalpa speciosa</i>
Sawbrier; Greenbrier	Pokeweed; Pokeberry	Virginia-creeper	Squaw-root
<i>Smilax glauca</i>	<i>Phytolacca americana</i>	<i>Parthenocissus quinquefolia</i>	<i>Conopholis americana</i>
Greenbrier; Catbrier	Wild Columbine	Muscadine; Bullace	Ruellia
<i>Smilax</i> sp.	<i>Aquilegia canadensis</i>	<i>Vitis rotundifolia</i>	<i>Ruellia carolinensis</i>
False Solomon's Seal	Black Cohosh	Grape	Button-bush
<i>Smilacina racemosa</i>	<i>Cimicifuga racemosa</i>	<i>Vitis</i> sp.	<i>Cephalanthus occidentalis</i>
Bear-grass	Coralbeads	Pepper-vine	Japanese Honeysuckle
<i>Yucca filamentosa</i>	<i>Coccolus carolinus</i>	<i>Ampelopsis cordata</i>	<i>Lonicera japonica</i>
Spider-lily	Tulip-poplar	Hypericum	Black-haw; Nanny-berry
<i>Hymenocallis occidentalis</i>	<i>Liriodendron tulipifera</i>	<i>Hypericum nudiflorum</i>	<i>Viburnum prunifolium</i>
Crane-fly Orchid	Sweet-shrub; Carolina-allspice	Green Violet	American Elderberry
<i>Tipularia discolor</i>	<i>Calycanthus floridus</i>	<i>Hybanthus concolor</i>	<i>Sambucus canadensis</i>
Lizard's-tail	Sassafras	Passionflower; Maypops	Cardinal-flower
<i>Saururus cernuus</i>	<i>Sassafras albidum</i>	<i>Passiflora incarnata</i>	<i>Lobelia cardinalis</i>
Swamp Cottonwood	Spicebush	Yellow Passionflower	Ironweed
<i>Populus heterophylla</i>	<i>Lindera benzoin</i>	<i>Passiflora lutea</i>	<i>Vernonia</i> sp.
Black Walnut	Stonecrop	Russian-olive	Elephant's-foot
<i>Juglans nigra</i>	<i>Sedum ternatum</i>	<i>Elaeagnus umbellata</i>	<i>Elephantopus carolinianus</i>
Shagbark Hickory	Climbing-hydrangea	Water-willow	<i>Elephantopus</i> sp.
<i>Carya ovata</i>	<i>Decumaria barbara</i>	<i>Ludwigia decurrens</i>	Dog-fennel
Mockernut Hickory	Sweet-gum	Ludwigia	<i>Eupatorium capillifolium</i>
<i>Carya tomentosa</i>	<i>Liquidambar styraciflua</i>	<i>Ludwigia</i> sp.	Rabbit-tobacco
Tag Alder	American Sycamore	Queen Anne's-lace; Wild Carrot	<i>Gnaphalium obtusifolium</i>
<i>Alnus serrulata</i>	<i>Platanus occidentalis</i>	<i>Daucus carota</i>	Aster
River Birch	Indian Strawberry	Angelica	<i>Aster</i> sp.
<i>Betula nigra</i>	<i>Duchesnea indica</i>	<i>Angelica venenosa</i>	

Landsford Canal State Park (continued)
October 25, 1986, and July 25, 1992

FAUNA

Asiatic Clam
Corbicula fluminea
Almond Millipede
Sigmoria aberrans
Spiny-backed Spider
Micrathena gracilis
Arrow-shaped Spiny-back
Micrathena saginata
Orchard Spider
Leucage venusta
Writing Spider
Argiope aurantia
Orb-weaver
Nesocosa domicillorum
Arrowhead Spider
Verrucosa arenata
Wolf Spider
Lycosa sp.
Crab Spider
Xysticus sp.
Daddy-long-legs
Leinbanum sp.
Loose Star Tick
Amblyomma americanum
Spur-throated Grasshopper
Dromoglyphus sp.
Carolina Mantid
Stagmomantis carolina
Wheel Bug
Arilus cristatus
Poplar Petioleball Aphid
Pemphigus populitransversus
Black-shouldered Spinyleg
Dromoglyphus spinosus

Little Corporal Dragonfly
Ladona deplanata
White-tail Dragonfly
Plathemis lydia
Ebony Jewelwing
Calopteryx maculata
Variable Dancer (damselfly)
Argia fumipennis
Blue-ringed Dancer (damselfly)
Argia sedula
Bluet (damselfly)
Enallagma sp.
Rambur's Forktail (damselfly)
Ischnura ramburi
Green Tiger Beetle
Cicindela sexguttata
Red-bellied Tiger Beetle
Cicindela rufiventris
June Beetle
Phyllaphaga sp.
Japanese Beetle
Popillia japonica
Grape Beetle
Pelidnota sp.
Green June Beetle
Colinus nitida
Tick Trefoil Leaf-miner
Pachyschelus laevigatus
Spotted Lady Beetle
Coleomegilla maculata
Shining Leaf Beetle
Lema sp.
Oval Leaf Beetle
Colaspis sp.
Flea Beetle
Oedionychis sp.
Crepidodera nitens
Systema elongata

Broad-nosed Weevil
Nemocestes sp.
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
American Snout (butterfly)
Libytheana carinenta
Pearl Crescent
Phyciodes tharos
American Lady (butterfly)
Vanessa virginiensis
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Hackberry Emperor (butterfly)
Asterocampa celtis
Carolina Satyr (butterfly)
Hermesptychia sosybius
Hoary Edge (skipper)
Achalarus lyciades
Ailanthus Webworm Moth
Atteva punctella
Clymene Moth
Haploa clymene
Largemouth Bass
Micropterus salmoides
Fowler's Toad
Bufo woodhousei
Eastern Box Turtle
Terrapene carolina
Eastern Fence Lizard
Sceloporus undulatus
Five-lined Skink
Eumeces fasciatus
Skink
Eumeces sp.
Copperhead
Agkistrodon contortrix
Great Egret
Casmerodius albus

Great Blue Heron
Ardea herodias
Turkey Vulture
Cathartes aura
Northern Harrier
Circus cyaneus
Osprey
Pandion haliaetus
Wild Turkey
Meleagris gallopavo
Yellow-billed Cuckoo
Coccyzus americanus
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus
American Crow
Corvus brachyrhynchos
Fish Crow
Corvus ossifragus
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
American Robin
Turdus migratorius
Red-Eyed Vireo
Vireo olivaceus
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Red-winged Blackbird
Agelaius phoeniceus
Summer Tanager
Piranga rubra
White-tailed Deer
Odocoileus virginianus

Woods Ferry Recreation Area
(Sumter National Forest)

Chester County
July 24, 1993

This recreation area is established around the remains of a ferry landing on the Chester County side of the Broad River, a large, broad Piedmont river. The river floodplain and its bluff have been incorporated into a picnic area, campground, and nature trail. Although none of the area is unique, it is an excellent example of this kind of habitat. Despite being very hot and dry, the day yielded a wide variety of plant and animal sightings. Among the more rewarding experiences: hearing the call of a wild turkey, the "ka, ka, ka" of a yellow-billed cuckoo, and seeing the splash of bright pink sabatia flowers among the wilted leaves of the majority of trillium plants. The heat did allow insects to be active, leading to a number of very large wheel bugs, beautiful damselflies, bright leaf-eating beetles, and a variety of grasshoppers.



(Photo by L. Smith)
Wheel bug, *Arilus cristatus*.



(Photo by L. Greenleaf)
Slaty skimmer, *Libellula incesta*.



FLORA

Lichen

Collema subflaccidum
Leptogium cyaneum
Peltigera canina
Peltigera polydictyla
Graphis sophisticascens
Graphis scripta
Phaeographis dendritica
Bacidia schweinitzii
Bacidia suffusa
Bacidia sp.
Leptogium austroamericanum
Baeomyces fungoides
Cladonia chlorophaea
Cladonia chlorophaea costata
Cladonia chlorophaea f. pterygota
Cladonia sobolescens
Cladonia coniocraea
Cladonia didyma
Cladonia macilenta theiophila
Cladonia polycarpa
Cladonia polycarpoides
Cladonia polycarpoides epiphylla
Cladonia peziziformis
Pezizaria rappii
Pezizaria papillaria
Pezizaria amara
Pezizaria ostiolata
Pezizaria paratuberculifera
Pezizaria subpertusa
Pezizaria texana
Maronea constans
Lecanora cupressi
Lecanora varia
Ochrolechia africana
Bulbothrix goebelii
Bulbothrix goebelii f. minor
Candelaria concolor
Hypotrachyna livida

Parmelia aurulenta
Parmelia galbina
Parmelia horrescens
Parmelia minarum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Flavoparmelia caperata
Canoparmelia caroliniana
Canoparmelia crozalsiana
Punctelia rudecta
Melanella halei
Rimelia reticulata
Rimelia cetrata
Rimelia subisidiosa
Ramalina americana
Usnea mutabilis
Buellia curatellae
Physcia americana
Physcia millegrana
Heterodermia obscurata
Pyxine caesiopruinosa
Pyxine sorediata
Phaeophyscia ciliata
Phaeophyscia rubropulchra
Caloplaca cinnabarina
Caloplaca ferruginea
Opegrapha astraea
Leparia membranacea
Leparia finkii
Running-pine
Lycopodium flabelliforme
Grape Fern; Moonwort
Botrychium sp.
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Loblolly Pine
Pinus taeda

Directions to Woods Ferry Recreation Area: From Columbia take SC 215 until it intersects with SC 72 and 121 in Chester County, about 50 miles. Turn right toward Chester on SC 72/121 and go 1.4 miles. Turn left (north) onto Woods Ferry Road at the sign for Woods Ferry Recreation Area. Travel 5.5 miles, following the signs through Leeds, and turn left. The recreation area is 3.5 miles farther.

Short-leaf Pine

Pinus echinata
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Cane; Switch Cane
Arundinaria gigantea
River Oats
Uniola latifolia
Paspalum (grass)
Paspalum sp.
Panic Grass
Panicum sp.
Microstegium (grass)
Microstegium vimineum
Dayflower
Commelina sp.
Greenbrier; Bullbrier
Smilax rotundifolia
Fringed Greenbrier
Smilax bona-nox
Sawbrier; Greenbrier
Smilax glauca
Indian Cucumber-root
Medeola virginiana
Solomon's-seal
Polygonatum biflorum
Wild Yam
Dioscorea sp.
Downy Rattlesnake-plantain
Goodyera pubescens
Black Willow
Salix nigra
Eastern Cottonwood
Populus deltoides
Black Walnut
Juglans nigra
Shagbark Hickory
Carya ovata
Pignut Hickory
Carya glabra
Tag Alder
Alnus serrulata
River Birch
Betula nigra
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
White Oak
Quercus alba
Post Oak
Quercus stellata

Red Oak

Quercus rubra
Southern Red Oak; Spanish Oak
Quercus falcata falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Slippery Elm
Ulmus rubra
American Elm
Ulmus americana
Winged Elm
Ulmus alata
Sugarberry; Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
False Nettle
Boehmeria cylindrica
Heartleaf
Hexastylis arifolia
Meadow-rue
Thalictrum revolutum
Liverleaf
Hepatica americana
Tulip-poplar
Liriodendron tulipifera
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Spicebush
Lindera benzoin
Climbing-hydrangea
Decumaria barbara
Mock-orange
Philadelphus inodorus
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Blackberry
Rubus argutus
Black Cherry; Wild Cherry
Prunus serotina
Mimosa; Silk-tree
Albizia julibrissin
Redbud; Judas-tree
Cercis canadensis
Wild Sensitive-plant
Cassia nichiana
Honey Locust
Gleditsia triacanthos
Pencil-flower
Stylisanthes biflora

Woods Ferry Recreation Area (continued)
July 24, 1993

Sericea
Lespedeza cuneata
Rhynchosia
Rhynchosia sp.
Cranesbill
Geranium carolinianum
Tragia
Tragia sp.
Poison-ivy
Rhus radicans
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Possumhaw Holly
Ilex decidua
Hearts-a-burstin'-with-love
Eustoma americanus
Bladderhut
Staphylea trifolia
Basselder
Acer negundo
Red Maple
Acer rubrum
Southern Sugar Maple
Acer saccharum floridanum
Red Buckeye
Arctostaphylos
Spotted Touch-me-not
Impatiens capensis
New-Jersey-tea
Ceanothus americanus
Virginia-creeper
Parthenocissus quinquefolia
Miscadine; Butlace
Vitis rotundifolia
Grape
Vitis sp.
Rose Mallow; Wild Cotton
Hibiscus moscheutos
St.-Andrew's-cross
Hypericum hypericoides
Hypericum
Hypericum sp.
Ludwigia
Ludwigia sp.
Snakeroot
Sanicula sp.
Angelica
Angelica venenosa
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Flowering Dogwood
Cornus florida
Silky Dogwood
Cornus ananum
Spotted Wintergreen
Chimaphila maculata
Sourwood
Ostrya arborescens

Sparkleberry
Vaccinium arboreum
Blueberry
Vaccinium sp.
Persimmon
Diospyros virginiana
Carolina Silverbell
Halesia carolina
Bigleaf Snowbell
Syrinx grandifolia
Ash
Fraxinus sp.
Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Polypremum
Polypremum procumbens
Sabatia
Sabatia sp.
Indian-hemp
Apocynum cannabinum
Milkweed
Asclepias quadrifolia
Angle-pod
Matelea gonocarpa
Glecoma
Glecoma hederacea
Carpenterweed
Pranella vulgaris
Lyre-leaved Sage
Salvia lyrata
Mountain Mint
Pycnanthemum sp.
False Foxglove
Aureolaria sp.
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Catalpa
Catalpa sp.
Ruellia
Ruellia carolinensis
English Plantain
Plantago lanceolata
Button-bush
Cephalanthus occidentalis
Partridge-berry
Mitchella repens
Bedstraw
Galium sp.
Japanese Honey-suckle
Lonicera japonica
Black-haw; Nanny-berry
Viburnum prunifolium
American Elderberry
Sambucus canadensis
Wild Lettuce
Lactuca sp.
Pale Indian-plantain
Cacalia atriplicifolia
Elephant's-foot
Elephantopus tomentosus

Eupatorium
Eupatorium sp.
Rabbit-tobacco
Gnaphalium obtusifolium
Silphium
Silphium sp.
Verbesina
Verbesina sp.
Coreopsis
Coreopsis major
Black-knot
Apiosporina morbosa

FAUNA

Asiatic Clam
Corbicula sp.
Blackgum Capsule Gall Mite
Eriophyes nyssae
Wild Cherry Pouch Gall Mite
Eriophyes padi
Globular Elm Leaf Gall Mite
Eriophyes ulmi
Green-striped Grasshopper
Chorthippa viridifasciata
Spur-throated Grasshopper
Melanoplus sp.
Montezuma Katydid
Montezuma modesta
Wheel Bug
Arilus cristatus
Hackberry Blister Gall (aphid)
Pachypsylla vesiculatum
Cottonwood Petiole Gall (aphid)
Pemphigus populicaulis
Large Conical Hickory Gall
Phylloxera notabilis
Blackberry Knot Gall (wasp)
Diastrophus nebulosus
Blackberry Branch Gall (wasp)
Diplolepis rubicola
Oak Bullet Gall (wasp)
Disholcaspis globulus
Water Oak Midvein Gall (wasp)
Callirhytis sp.
Common Eastern Velvet-ant
Dasyntoma occidentalis
Dogwood Club Gall (midge)
Mycodiplosis clavula
Slaty Skimmer
Libellula incesta
Great Blue Skimmer
Libellula vibrans
Blue Dasher
Pachydiplax longipennis
White-tail Dragonfly
Plathemis lydia
Ebony Jewelwing
Calopteryx maculata
Blue-fronted Dancer Damselfly
Argia apicalis
Powdered Dancer (damselfly)
Argia moesta
Woodland Ground Beetle
Pterostichus chalcites
Agonum sp.

Notch-mouthed Ground Beetle
Dicaeolus dilatatus
Crawling Water Beetle
Haliplus fasciatus
Peltodytes sexmaculatus
Peltodytes shermani
Peltodytes sp.
Predacious Diving Beetle
Laccophilus fasciatus
Hydroporus niger
Coptotomus interrogatus
Whirligig Beetle
Dineutus robertsi
Water Scavenger Beetle
Hydrochus excavatus
Tropisternus quadristriatus
quadristriatus
Stag Beetle
Pseudolucanus placidus
Passalus; Bess-beetle
Popillius disjunctus
Contractile Scarab Beetle
Cloeotus aphodioides
Japanese Beetle
Popillia japonica
Spotted Lady Beetle
Coleomegilla maculata
Pleasing Fungus Beetle
Megalodacne fasciata
Warty Leaf Beetle
Chlamisus gibbosus
Oval Leaf Beetle
Rhabdopterus picipes
Larger Elm Leaf Beetle
Monocostia coryli
E. Spotted Cucumber Beetle
Diabrotica undecimpunctata
howardi
Tortoise Beetle
Deloyola guttata
Hibiscus Seed Weevil
Althaeus hibisci
Flower Weevil
Baris aerea
Cocklebur Weevil
Rhodoabacus tredecimpunctatus
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Red Admiral
Vanessa atalanta rubria
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Carolina Satyr (butterfly)
Hermeuptychia sisybius
Silver-spotted Skipper
Epargyreus clarus
Pine Woods Treefrog
Hyla femoralis
Green Frog; Bronze Frog
Rana clamitans
Skink
Eumeces sp.
Green-backed Heron
Butorides striatus

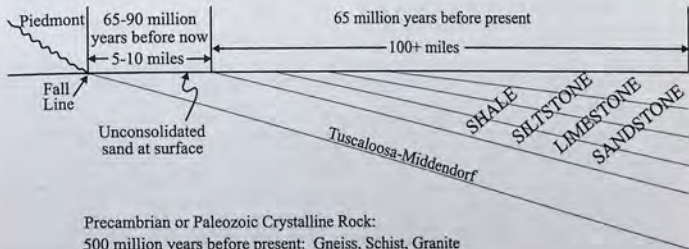
Black Vulture*Coragyps atratus***Wild Turkey***Meleagris gallopavo***Yellow-billed Cuckoo***Coccyzus americanus***Red-bellied Woodpecker***Melanerpes carolinus***Red-headed Woodpecker***Melanerpes erythrocephalus***Northern Flicker***Colaptes auratus***Pileated Woodpecker***Dryocopus pileatus***Eastern Phoebe***Sayornis phoebe***American Crow***Corvus brachyrhynchos***Fish Crow***Corvus ossifragus***Tufted Titmouse***Parus bicolor***Carolina Chickadee***Parus carolinensis***Blue-gray Gnatcatcher***Polioptila caerulea***Prairie Warbler***Dendroica discolor***Northern Cardinal***Cardinalis cardinalis***Rufous-sided Towhee***Pipilo erythrophthalmus***Field Sparrow***Spizella pusilla***Chipping Sparrow***Spizella passerina***Summer Tanager***Piranga rubra*

Chesterfield County

Science and Nature Notes: The Sandhills

The sandhills provide the closest thing to a true desert South Carolina has. The sandy soil naturally retains little moisture. In the area around Carolina Sandhills National Wildlife Refuge, Sandhills State Forest, and Cheraw State Park, the xeric conditions were worsened by poor farming practices in the 1800's and early 1900's as humus and minerals were used up or leached away. Plants that have survived in this habitat have adapted in special ways. They are smaller than their relatives in wetter areas, and are more widely spaced, necessitated by the competition for water and nutrients. Species that adapt most easily often have waxy coatings on their leaves, or the ability, especially in oaks, of turning their leaves from horizontal to vertical when the sun is most intense. This reduces overheating and dehydration from sun above, and heat reflected from the white sand below. Certain grasshopper species also develop extra heavy waxy compounds in their "skins" when they live in the driest, sunniest parts of these areas.

The drawing below is a vertical section through our coastal plain. Sections taken from New Jersey to Mississippi would be similar. The formations are all tilted down and each becomes thicker as it approaches the ocean. The Earth's surface transects these sedimentary strata at a low angle. Hence, although the Tuscaloosa at the sandhills is only several hundred feet thick, its surface exposure will be 5 - 10 miles.; its thickness at Charleston may be several thousand feet. Although dinosaurs were upon the land at this time, fossils are not likely to be found in this area. The high energy environment of deposition and the porous nature of the substrate preclude preservation of animal material. However, petrified wood may be found in many places.



Carolina Sandhills National Wildlife Refuge, September 26, 1992 and Sandhills State Forest, September 24, 1994 Chesterfield County

Carolina Sandhills National Wildlife Refuge is 45,348 acres of land, including about 30 small man-made lakes and ponds, that lies along the Fall Line separating the Piedmont plateau from the Atlantic Coastal Plain. Most of the refuge is covered by longleaf pine forest interspersed with scrub oak. The soils are composed mainly of rolling beds of deep sand. Fields and clearings, plus the lakes and ponds, provide many types of habitats available for wildlife. These support a wide diversity of plant and animal species and serve as a refuge for such endangered and/or threatened species as the red-cockaded woodpecker, pine-barrens tree frog, and southern bald eagle. This refuge supports a larger population of red-cockaded woodpecker than all other refuges combined. Unlike other woodpeckers, it nests in cavities of living, but older, longleaf pines. As is often the case in early fall in the sandhills, flora, especially wildflowers both in the sandy areas and in the bogs near the lakes, provided the most rewarding finds of the day.

Directions to Carolina Sandhills National Wildlife Refuge: From Camden, take US 1 northeast 27 miles through Bethune and McBee. After crossing SC 151 in McBee, continue about 4 miles further and turn left into the Carolina Sandhills Refuge Headquarters (pick up refuge maps there). Follow the Wildlife Drive until reaching the sign to Martin's Lake; turn right and go to the parking lot near the lake. The Lake Bee picnic area may be reached by continuing along the Wildlife Drive, or by forking left onto SC 145 just outside of McBee.

Sandhills State Forest is 46,000 acres, mostly in Chesterfield County. Approximately one-fifth of the forest floor is burned each year to provide a 5-year burn cycle to increase and maintain a longleaf pine habitat. This, along with matching forest management practices, is restoring the natural diversity of the native plant cover and enhances the red-cockaded woodpecker population as well. There is an active program of providing man-made cavities for the woodpeckers, additionally increasing the numbers. On this visit, several small unique habitats such as creek bottoms and seepage areas provided a number of unusual sightings. Despite a morning of hard rain, forester Darryl Jones successfully converted several of us who mistakenly considered the area devoid of interest from 55mph!

Directions to Sandhills State Forest: From Camden, take US 1 northeast 27 miles through Bethune and McBee; continue on US 1 about 11 miles further, passing the Sandhills National Wildlife Refuge Headquarters and crossing S 13-29. (Do not confuse the two headquarters.) The Sandhills State Forest Headquarters is on the left about 1.5 miles after crossing S 13-29. If you come to Patrick and SC 102, turn around and go back about 3 miles.



FLORA

Lichen

Lecidea nylanderii
Lecidea sp.
Cladonia evansii
Cladonia apodocarpa
Cladonia bramptonii
Cladonia calycanthae
Cladonia capitata
Cladonia cariosa
Cladonia chlorophaea

Cladonia coniocraea
Cladonia cristatella
Cladonia cristatella cristatella
Cladonia cristatella pleurocarpa
Cladonia didyma
Cladonia inermis
Cladonia leporina
Cladonia leporina ramosa
Cladonia leporina prolifera
Cladonia leporina squamulosa
Cladonia polycarpoides
Cladonia ravenelii

Cladonia streptilis
Cladonia subsetacea
Cladonia uncialis
Pycnothelia papillaria
Pertusaria amara
Pertusaria globularis
Pertusaria pustulata
Pertusaria propinqua
Pertusaria sp.
Maronea constans
Lecanora hypotoides
Lecanora miculata

Lecanora rugosa
Lecanora cupressi
Lecanora varia
Lecanora saligna
Ochrolechia africana
Candelaria concolor
Cetraria sp.
Hypotrachyna livida
Parmelina aurulenta
Parmelina galbina
Parmelina horrescens
Parmelina minarum

<i>Parmotrema haitiense</i>	Wiregrass	Laurel Oak	Tread-softly
<i>Parmotrema hypotropum</i>	<i>Aristida stricta</i>	<i>Quercus laurifolia</i>	<i>Cnidostolus stimulosus</i>
<i>Parmotrema mellissii</i>	<i>Aristida</i> sp.	Heartleaf	Carolina Ipecac
<i>Parmotrema michauxianum</i>	Drospede	<i>Hexastylis</i> sp.	<i>Euphorbia ipecacuanhae</i>
<i>Parmotrema perforatum</i>	<i>Sporobolus</i> sp.	Jointweed	Spurge
<i>Parmotrema subintortum</i>	Grass	<i>Polygonella polygama</i>	<i>Euphorbia curtisii</i>
<i>Xanthoparmelia</i> sp.	<i>Calamovilfa brevifolia</i>	Cottonweed	<i>Euphorbia</i> sp.
<i>Flavoparmelia caperata</i>	Toothache Grass	<i>Froelichia floridana</i>	Poison Sumac
<i>Punctelia appalachensis</i>	<i>Cenium aromaticum</i>	Wire-plant	<i>Rhus vernix</i>
<i>Punctelia rudecta</i>	Beard Grass	<i>Stipalidica setacea</i>	Poison-oak
<i>Rimelia reticulata</i>	<i>Gymnopogon brevifolius</i>	Sandwort; Longroot	<i>Rhus toxicodendron</i>
<i>Tuckermanniopsis viridis</i>	Anthaenania (grass)	<i>Arenaria caroliniana</i>	Winged Sumac
<i>Ramalina americana</i>	<i>Anthaenania villosa</i>	Water-lily	<i>Rhus copallina</i>
<i>Usnea rubicunda</i>	Panic Grass	<i>Nymphaea odorata</i>	Titi
<i>Usnea strigosa</i>	<i>Panicum verrucosum</i>	Water-shield	<i>Cyrtilla racemiflora</i>
<i>Buellia parasema</i>	Little Bluestem	<i>Brasenia schreberi</i>	American Holly
<i>Buellia punctata</i>	<i>Andropogon scoparius</i>	Tulip-poplar	<i>Ilex opaca</i>
<i>Buellia disciformis</i>	Broomsedge	<i>Liriodendron tulipifera</i>	Inkberry
<i>Physcia alpicola</i>	<i>Andropogon</i> sp.	Sweetbay	<i>Ilex glabra</i>
<i>Heterodermia speciosa</i>	Indian Grass	<i>Magnolia virginiana</i>	Sweet Galberry
<i>Heterodermia casarettiana</i>	<i>Sorghastrum</i> sp.	Redbay	<i>Ilex coriacea</i>
<i>Physconia enteroxantha</i>	Dulichium (sedge)	<i>Persea borbonia</i>	Red Maple
<i>Calopogon aurantiaca</i>	<i>Dulichium arundinaceum</i>	Sassafras	<i>Acer rubrum</i>
<i>Trypethelium tropicum</i>	Umbrella-grass	<i>Sassafras albidum</i>	Virginia-creeper
<i>Trypethelium scorites</i>	<i>Fuiera squarrosa</i>	Trumpet Pitcher-plant	<i>Parthenocissus quinquefolia</i>
<i>Trypethelium</i> sp.	Beak-rush	<i>Sarracenia flava</i>	Muscadine; Bullace
Southern Bog Clubmoss	<i>Rhynchospora chalarocephala</i>	Sweet Pitcher-plant	<i>Vitis rotundifolia</i>
<i>Lycopodium adpressum</i>	Sedge	<i>Sarracenia rubra</i>	St.-Andrew's-cross
Cinnamon Fern	<i>Carex glaucescens</i>	Hooded Pitcher-plant	<i>Hypericum hypericoides</i>
<i>Osmunda cinnamomea</i>	Yellow-eyed-grass	<i>Sarracenia minor</i>	St.-Peter's-wort
Royal Fern	<i>Xyris</i> sp.	Frog's-bitches	<i>Hypericum stans</i>
<i>Osmunda regalis spectabilis</i>	Pipewort; Hatpins	<i>Sarracenia purpurea</i>	Pineweed
Bracken	<i>Eriocaulon</i> sp.	Sandew	<i>Hypericum gentianoides</i>
<i>Pteridium aquilinum</i>	Bog-buttons	<i>Drosera intermedia</i>	Hypericum
Virginia Chain Fern	<i>Lachnocaulon anceps</i>	<i>Drosera capillaris</i>	<i>Hypericum</i> sp.
<i>Woodwardia virginica</i>	Bamboo Smilax	Virginia-willow	Passionflower; Maypops
Netted Chain Fern	<i>Smilax laurifolia</i>	<i>Itea virginica</i>	<i>Passiflora incarnata</i>
<i>Woodwardia areolata</i>	False Asphodel	Sweet-gum	Prickly-pear
Resurrection Fern	<i>Tofieldia racemosa</i>	<i>Liquidambar styraciflua</i>	<i>Opuntia compressa</i>
<i>Polypodium polypodioides</i>	White-featherling	Witch-alder	Smooth Meadow-beauty
Long-leaf Pine	<i>Tofieldia glabra</i>	<i>Fothergilla gardenii</i>	<i>Rhexia aliflora</i>
<i>Pinus palustris</i>	Zigadenus	Blackberry; Brambles	Pale Meadow-beauty
Slash Pine	<i>Zigadenus glaberrimus</i>	<i>Rubus</i> sp.	<i>Rhexia mariana</i>
<i>Pinus elliotii</i>	Burmanna	Red Chokeberry	Common Meadow-beauty
Pond Pine	<i>Burmanna capitata</i>	<i>Sorbus arbutifolia</i>	<i>Rhexia virginica</i>
<i>Pinus serotina</i>	Nodding Ladies'-tresses	Black Cherry; Wild Cherry	<i>Rhexia virginica virginica</i>
Short-leaf Pine	<i>Spiranthes cernua</i>	<i>Prunus serotina</i>	Intelligence-plant
<i>Pinus echinata</i>	Swamp Bayberry	Sensitive-brier	<i>Centella asiatica</i>
Virginia Pine; Scrub Pine	<i>Myrica heterophylla</i>	<i>Schrankia microphylla</i>	Button Snakeroot
<i>Pinus virginiana</i>	Mockernut Hickory	Wild Indigo	<i>Eryngium yuccifolium</i>
Sand Pine	<i>Carya tomentosa</i>	<i>Baptisia</i> sp.	Snakeroot
<i>Pinus clausa</i>	Tag Alder	Common Lupine	<i>Eryngium integrifolium</i>
Atlantic White-cedar	<i>Alnus serrulata</i>	<i>Lupinus difflusus</i>	Oxypolis
<i>Chamaecyparis thyoides</i>	Post Oak	Leadplant	<i>Oxypolis ternata</i>
Eastern Red-cedar	<i>Quercus stellata</i>	<i>Amorpha herbacea</i>	Black Tupelo; Blackgum
<i>Juniperus virginiana</i>	Scrubby Post Oak	<i>Creeping Bush-clover</i>	<i>Nyssa sylvatica sylvatica</i>
Arrowhead; Duck-potato	<i>Quercus margaretta</i>	<i>Lespedeza repens</i>	Swamp Tupelo; Swamp Blackgum
<i>Sagittaria</i> sp.	Overcup Oak	<i>Goat's-rue</i>	<i>Nyssa sylvatica biflora</i>
Cane; Switch Cane	<i>Quercus lyrata</i>	<i>Tephrosia virginiana</i>	Flowering Dogwood
<i>Arundinaria gigantea</i>	Turkey Oak	Drum-heads	<i>Cornus florida</i>
Sand Grass	<i>Quercus laevis</i>	<i>Polygala cruciata</i>	Sweet Pepperbush
<i>Triplasis americana</i>	Southern Red Oak; Spanish Oak	Polygala	<i>Clethra alnifolia</i>
Love Grass	<i>Quercus falcata falcata</i>	<i>Polygala incarnata</i>	Spotted Wintergreen
<i>Eragrostis</i> sp.	Black Jack Oak	<i>Polygala ramosa</i>	<i>Chimaphila maculata</i>
Orchard Grass	<i>Quercus marilandica</i>	Orange Milkwort	Maleberry
<i>Dactylis glomerata</i>	Blue-jack Oak	<i>Polygala lutea</i>	<i>Lyonia ligustrina</i>
	<i>Quercus incana</i>		

Carolina Sandhills NWR
and Sandhills State Forest (continued)
September 26, 1992, and September 24, 1994

Fetterbush
Lysia lucida
Staggerbush
Lysia mariana
Coastal Honeybell
Leucothoe racemosa
Sourwood
Oxydendrum arboreum
Trailing-arbutus
Epigaea repens
Dangleberry
Gaultheria procumbens
Sparkleberry
Vaccinium arboreum
Highbush Blueberry
Vaccinium corymbosum
Creeping Blueberry
Vaccinium cuneifolium
Pride-moss
Psittacanthus barbatus
Persimmon
Diospyros virginiana
Horse-sugar, Sweetleaf
Symplocos tinctoria
Yellow Jessamine
Gelsemium sempervirens
Polytremum
Polytremum procumbens
Pine-barren Gentian
Gentiana autumnalis
Blue-star
Amsonia ciliata
Seymeria
Seymeria cassioides
Purple Gerardia
Agalinis purpurea
Gerardia
Agalinis sp.
Bladderwort
Utricularia sp.
Poor-jo (or Po-jo)
Diodia teres
Mexican-clover
Richardia scabra
Sherardia
Sherardia arvensis
Possumhaw Viburnum
Viburnum nudum
Wahlenbergia
Wahlenbergia marginata
Lobelia
Lobelia nuttallii
Lobelia sp.
Thistle
Cirsium sp.
Ironweed
Veronica arvensis
Elephant's-foot
Elephantopus tomentosus
Elephantopus sp.

Blazing-star
Liatris graminifolia
Deer's-tongue
Trilisa paniculata
Carphophorus
Carphophorus bellidifolius
Carphophorus sp.
Joe-pye-weed
Eupatorium fistulosum
Dog-fennel
Eupatorium capillifolium
Eupatorium compositifolium
Eupatorium
Eupatorium pilosum
False Hooround
Eupatorium rotundifolium
White Snakeroot
Eupatorium rugosum
Aster
Aster squarrosus
Aster sp.
Stiff-leaved Aster
Aster linariifolius
Slim Goldenrod
Solidago stricta
Gray Goldenrod
Solidago nemoralis
Sweet Goldenrod
Solidago odora
Heterotheca
Heterotheca graminifolia
Heterotheca mariana
Heterotheca gossypina
Rosinweed
Silphium compositum
Sunflower
Helianthus angustifolius
Coreopsis
Coreopsis gladiata
Barbara's-buttons
Marshallia graminifolia
Common Fiber-yase
Thelopha terrestris

FAUNA

Crayfish
Cambarus sp.
Crab-shaped Spiny-back
Gasteracantha cancriformis
Arrow-shaped Spiny-back
Micrathena sagittata
Basilia Spider
Mezomys leuiscata
Orb-weaver
Neoscona domicillorum
Orb-weaver
Neoscona hentzi
Long-jawed Orb-weaver
Tetragnatha laboriosa

Carolina Wolf Spider
Lycosa carolinensis
Rabid Wolf Spider
Lycosa rabida
Meadow Grasshopper
Orchelimum sp.
Grasshopper
Orphulella pelidna
Slant-faced Grasshopper
Syrbula admirabilis
Grasshopper
Memiria intertexta
Boll's Sand Grasshopper
Spharagemon bolli
Spur-throated Grasshopper
Melanoplus sp.
Leather-color Bird Grasshopper
Schistocerca gregaria
Texas Bush Katydid
Scudderella texensis
Thick-legged Camel Cricket
Ceuthophilus crassifemoris
Froghopper
Prasapia bicincta
Bumblebee
Bombus sp.
House Fly
Musca domestica
Amanda's Pennant (dragonfly)
Celithemis amanda
Banded Pennant (dragonfly)
Celithemis fasciata
Eastern Pondhawk
Erythemis simplicicollis
Blue Dragonlet
Erythrodiplos minuscule
Carolina Spreading Damselfly
Letes vidua
Serpentine Dancer (damselfly)
Argia bipunctulata
Atlantic Bluet (damselfly)
Enallagma doubledayi
Citrine Forktail (damselfly)
Ischnura hastata
Tiger Beetle
Cicindela tranquebarica
Woodland Ground Beetle
Agonum sp.
Oval Ground Beetle
Oodes anaroides
Predacious Diving Beetle
Hydroporus sp.
Burrowing Water Beetle
Hydrotus iricolor
Whirligig Beetle
Dineutus emarginatus
Dineutus carolinus
Dineutus horni
Large Flat-headed Pine Borer
Chalcophora virginienis
Soldier Beetle
Chauliognathus pennsylvanicus
Black Blister Beetle
Epicauta pennsylvanica
Spotless Lady Beetle
Cyclonella sanguinea

Flower Longhorn Beetle
Typocerus sp.
12-spotted Cucumber Beetle
Diabrotica duodecimpunctata
Skeletonizing Leaf Beetle
Luperodes sp.
Pea & Bean Weevil
Meibomia musculus
Fruit Weevil
Anthonomus sp.
Cloudless Sulphur
Phoebis sennae eubule
Little Yellow (butterfly)
Eurema lisa
Eastern Tailed-blue (butterfly)
Everes cymantus
Pearl Crescent
Phyciodes tharos
Monarch (butterfly)
Danaus plexippus
Southern Flannel Moth
Megalopyge opercularis
Southern Toad
Bufo terrestris
Southern Cricket Frog
Acris gryllus
Cricket Frog
Acris sp.
Yellow-bellied Slider
Chrysemys scripta
Carolina Anole
Anolis carolinensis
Eastern Fence Lizard
Sceloporus undulatus
Black Racer
Coluber constrictor
Banded Water Snake
Nerodia fasciata
Pied-billed Grebe
Podilymbus podiceps
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Canada Goose
Branta canadensis
Wood Duck
Aix sponsa
Osprey
Pandion haliaetus
American Kestrel
Falco sparverius
Mourning Dove
Zenaidura macroura
Chimney Swift
Chaetura pelagica
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus
Northern Flicker
Colaptes auratus
Red-cockaded Woodpecker (sign)
Picoides borealis
Pileated Woodpecker
Dryocopus pileatus

Blue Jay*Cyanocitta cristata***American Crow***Corvus brachyrhynchos***Brown-headed Nuthatch***Sitta pusilla***Carolina Wren***Thryothorus ludovicianus***Eastern Bluebird***Sialia sialis***American Robin***Turdus migratorius***Gray Catbird***Dumetella carolinensis***Northern Mockingbird***Mimus polyglottos***Cedar Waxwing***Bombycilla cedrorum***Pine Warbler***Dendroica pinus***Northern Cardinal***Cardinalis cardinalis***Rufous-sided Towhee***Pipilo erythrophthalmus***Chipping Sparrow***Spizella passerina***White-tailed Deer (tracks)***Odocoileus virginianus*

(Photo by L. Grever)

Florence High and Mary Garland

Douglass busy at work.



Cheraw Fish Hatchery, Cheraw State Park and Sugarloaf Mountain (Sandhills State Forest) Chesterfield County March 24, 1990

Although this list covers three sites, the habitats are similar, with some exceptions. This trip was led by Dr. George Sawyer of Coker College and Kalmia Gardens in Hartsville, who gave both a natural history and cultural history interpretation of the area. A little-known area of the state park provided a rich sandhills area featuring *Hudsonia ericoides*, the only known location of the plant in the Carolinas. Sugarloaf Mountain, in contrast, is a high cone-shaped hill made up of layers of sandstone and clay. Once characteristic of the entire area, these layers were as high if not higher than the present "mountain's" peak. At one time several streams ran through the area carrying iron oxide. A natural cement, it combined with the sand as it flowed downstream to form sandstone. As this iron-rich sandstone gradually reached the layer of clay, it formed a layer on top, protecting it from the more rapid erosion of the surrounding area. The result is present-day Sugarloaf Mountain, which rises some 150 feet above the surrounding coastal plain. Several uncommon plants are found on Sugarloaf and its lower neighbor, Horse Shoe Mountain, such as pyxie moss and creeping blueberry.

Directions to Cheraw Fish Hatchery, Cheraw State Park and Sugarloaf Mountain: From Camden, take US 1 northeast 41 miles through McBee and Patrick; continue on US 1 for 7 additional miles past Patrick to the Cheraw Fish Hatchery on the right. Cheraw State Park may be entered by walking through the woods from the Fish Hatchery, or through the main entrance on US 52 just 0.8 miles south of the intersection with US 1. For Sugarloaf Mountain, return 4.8 miles south of Patrick (or 9 miles north of McBee) and turn north on S 13-29. Go about a mile, angle right at the fork onto a dirt road, and then take the next right fork again. You will pass a lake and a camping area on the right, and the "mountain" is on the left.

**FLORA****Lichen**

Cladonia evansii
Cladonia caroliniana
Cladonia coniocraea
Cladonia cristatella
Cladonia gracilis
Cladonia leporina
Hypotrachyna livida
Parmotrema perforatum
Ramalina americana
Umea trichodea
Lepraria sp.
 Southern Bog Clubmoss
Lycopodium adpressum
 Sand Spikemoss
Selaginella arenicola

Bracken

Pteridium aquilinum
 Bradley's Spleenwort
Asplenium bradleyi
 Long-leaf Pine
Pinus palustris
 Pond Pine
Pinus serotina
 Virginia Pine; Scrub Pine
Pinus virginiana
 Foxtail Grass
Alopecurus carolinianus
 Golden-club
Orontium aquaticum
 Bogmoss
Mayaca aspleniifolia
 Yellow-eyed-grass
Xyris sp.

**Cheraw Fish Hatchery, Cheraw State Park
and Sugarloaf Mountain (continued)
March 24, 1990**

Bamboo Smilax
Smilax laurifolia
Redroot
Lachnanthes caroliniana
Dwarf Iris
Iris verta
Turkey Oak
Quercus laevis
Jailweed
Polygonella polygama
Water-lily
Nymphaea odorata
Water-shield
Brasenia schreberi
Moose-tail
Myosurus minimus
Redbay
Persia borbonica
Sassafras
Sassafras albidum
Teesdalea
Teesdalea nudicaulis
Sundew
Drosera intermedia
Red Chokeberry
Sorbus arbutifolia
Water Starwort
Callitriche deflexa
Titi
Cynilla racemiflora
American Holly
Ilex opaca
Inkberry
Ilex glabra
Red Maple
Acer rubrum
Hudsonia
Hudsonia ericoides

Bird-foot Violet
Viola pedata
Primrose-leaved Violet
Viola primulifolia
Water-millfoil
Myriophyllum sp.
Intelligence-plant
Centella asiatica
Sweet Pepperbush
Clethra alnifolia
Sand-myrtle
Leiodaphnium buxifolium
Mountain-laurel
Kalmia latifolia
Staggerbush
Lyonia mariana
Trailing-arbutus
Epigaea repens
Sparkleberry
Vaccinium arboreum
Black Highbush Blueberry
Vaccinium atrococcum
Creeping Blueberry
Vaccinium crassifolium
Pyxie-moss
Pyxidanthera barbulate barbulate
Pyxidanthera barbulate brevifolia
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symlocos tinctoria
Yellow Jessamine
Gelsemium sempervirens
Wiry Bladderwort
Utricularia subulata
Floating Bladderwort
Utricularia inflata
Small Bluets
Houstonia missillia

Facelis
Facelis renusa
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Woody Goldenrod
Solidago paucifloroscula

FAUNA

Green Lacewing
Chrysopa sp.
Mantled Baskettail (dragonfly)
Epiheca semiaqua
Pedunculate Ground Beetle
Pasimachus sp.
Woodland Ground Beetle
Agonum sp.
Dingy Ground Beetle
Stenolophus ochropus
Crawling Water Beetle
Haliphus triopsus
Whirligig Beetle
Dineutus emarginatus
Water Scavenger Beetle
Tropisternus collaris striolatus
Tropisternus blatchleyi blatchleyi
Dung Beetle
Onthophagus sp.
Earth-boring Dung Beetle
Geotruxes blackburnii blackburnii
Garden Beetle
Serica sp.
Rhinoceros Beetle
Strategus sp.
Large Flat-headed Pine Borer
Chalcophora virginienis
Leaf Buprestid Beetle
Brachys sp.
Soldier Beetle
Silis latilobus
Firefly; Lightning Beetle
Ellychnia sp.
Lady Beetle
Coleomegilla fuscilabris

Twice-stabbed Lady Beetle
Chilocorus stigma
Flower Longhorn Beetle
Rhagium inquisitor
Hickory Girdler Beetle (tracks)
Oncideres cingulata
Shining Leaf Beetle
Lema sp.
Skeletonizing Leaf Beetle
Galerucella nymphaeae
Zebra Swallowtail
Eurytides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Red-banded Hairstreak
Calycopis cecrops
Henry's Elfin (butterfly)
Callophrys henrici
Spring Azure (butterfly)
Celastrina ladon
Luna Moth
Actias luna
Virginian Tiger Moth
Spilosoma virginica
Northern Cricket Frog
Acris crepitans
Southern Cricket Frog
Acris gryllus
Yellow-bellied Slider
Chrysemys scripta
Eastern Fence Lizard
Sceloporus undulatus
Ground Skink
Scincella lateralis
Red-tailed Hawk
Buteo jamaicensis
Brown-headed Nuthatch
Sitta pusilla
Pine Warbler
Dendroica pinus



Clarendon County

Bennetts Bay Heritage Preserve

Clarendon County

April 8, 1989

Bennetts Bay, also shown on older maps as Junkyard Bay, is a classic Carolina Bay with water in the middle surrounded by a dense border of shrubs. A sand ridge is outside that dense border, and it provided one of the more exciting finds of the day, running oak (*Quercus pumila*). Chinquapin (*Castanea pumila*) was also seen. After exploring the drier rim and waiting for the day to warm, most people donned wading gear and got "up close and personal" with the aquatic portion of the bay. That made for a memorable trip for those who risked getting wet. Children were invited on this trip, but most of these "children" were over twenty-one.

Directions to Bennetts Bay Heritage Preserve:
From the intersection of US 521 and SC 261 in the center of Manning, take US 521 east toward Greeleyville and Andrews for 1.0 mile. Just before the store, turn right (south) onto County Road S 14-48. Follow this road about 5.2 miles; then turn left onto County Road S 14-211. Go about 3 miles, passing County Roads S 14-262 and S 14-340, and turn left onto an unnamed dirt road shortly before a brick house on the left. Just after the tobacco barn on the right, turn right into a lane, park near the Nature Conservancy sign, and walk the rest of the way to Bennett's Bay.



FLORA

Fruticose Lichen

Cladonia sp.

Peat Moss

Sphagnum sp.

Field Horsetail

Equisetum arvense

Cinnamon Fern

Osmunda cinnamomea

Bracken

Pteridium aquilinum

Loblolly Pine

Pinus taeda

Cane; Switch Cane

Arundinaria gigantea

Yellow-eyed-grass

Xyris sp.

Bamboo Smilax

Smilax laurifolia

Bear-grass

Yucca filamentosa

Dwarf Iris

Iris verna

Wax-myrtle; Southern Bayberry

Myrica cerifera

Moccasin Hickory

Carya tomentosa

River Birch

Betula nigra

Allegheny Chinquapin

Castanea pumila

Past Oak

Quercus stellata

Turkey Oak

Quercus laevis

Spanish Oak

Quercus falcata

Black Jack Oak

Quercus marilandica

Water Oak

Quercus nigra

Running Oak

Quercus pumila

Mistletoe

Phoradendron serotinum

Sweetbay

Magnolia virginiana

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Trumpet Pitcher-plant

Sarracenia flava

Sandew

Drosera leucantha

Virginia-willow

Ita virginica

Sweet-gum

Liquidambar styraciflua

Red Chokeberry

Sorbus arbutifolia

Shadbush

Amelanchier canadensis

Black Cherry; Wild Cherry

Prunus serotina

American Wisteria

Wisteria frutescens

Poison-ivy

Rhus radicans

Poison-oak

Rhus toxicodendron

American Holly

Ilex opaca

Inkberry

Ilex glabra

Sweet Gallberry

Ilex coriacea

Red Maple

Acer rubrum

Muscadine; Bullace

Vitis rotundifolia

Loblolly-bay

Gordonia lasianthus

Bog White Violet

Viola lanceolata

Prickly-pear

Opuntia compressa

Devil's-walking-stick

Aralia spinosa

Intelligence-plant

Centella asiatica

Flowering Dogwood

Cornus florida

Sweet Pepperbush

Clethra alnifolia

Pinkster-flower; Pinkster-bloom

Rhododendron nudiflorum

Fetterbush

Lyonia lucida

Dog-hobble

Leucothoe axillaris

Dangleberry

Gaylussacia frondosa

Sheep-laurel; Lamb-kill

Kalmia angustifolia

Horse-sugar; Sweetleaf

Symplocos tinctoria

Fringe-tree

Chionanthus virginicus

Dodder

Cuscuta sp.

Phlox

Phlox nivalis

Lyre-leaved Sage

Salvia lyrata

Toadflax

Linaria canadensis

Possunhaw Viburnum

Viburnum nudum

Dwarf Dandelion

Krigia virginica

Common Split-gill

Schizophtylum commune

FAUNA

Green Tiger Beetle

Cicindela sexguttata

Water Scavenger Beetle

Helocombus bifidus

Rove Beetle

Anthrenus sp.

Quadrus sp.

Tachinus axillaris

Tachinus pallipes

Oxyopa sp.

Dung Beetle

Onthophagus hecate

Aphodine Dung Beetle

Aphodius sp.

Astenus cognatus

Firefly; Lightning Beetle

Ellychnia sp.

Soft-winged Flower Beetle

Attalus scincicus

Attalus circumscriptus

Seven-spotted Lady Beetle

Coccinella septempunctata

Round-necked Longhorn Beetle

Molochrus sp.

Flower Weevil

Centrinaspis persicillus

Eastern Tiger Swallowtail

Papilio glaucus

Spicebush Swallowtail

Papilio troilus

Eastern Tailed-blue(butterfly)

Everes comyntas

Common Buckeye (butterfly)

Janonia coenia

Carolina Satyr (butterfly)

Hermesptychia sisybius

Rough Green Snake

Ophedrys aestivus

Cattle Egret

Bulicatus ibis

Turkey Vulture

Cathartes aura

Northern Bobwhite

Colinus virginianus

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

Brown-headed Nuthatch

Sitta pusilla

Carolina Wren

Thryothorus ludovicianus

Eastern Bluebird

Sialia sialis

Pine Warbler

Dendroica pinus

Northern Cardinal

Cardinalis cardinalis

Rufous-sided Towhee

Pipilo erythrophthalmus

Santee National Wildlife Refuge

Clarendon County

February 25, 1989

Santee National Wildlife Refuge has been a popular destination for SCAN during winter months. Birds are usually the highlight of such a visit, but they are only one of the many interesting things to be seen. The refuge is made up of separate units separated by several miles, offering a wide variety of habitats. At the visitor's center you can learn about what you are likely to be seeing during your visit and obtain a map of the more remote units. Trails close to the visitor's center are laid out to provide an example of most habitats represented on the refuge. Small towers and benches are provided where watching is likely to be fruitful. Bald eagles are frequently seen in the area. The wooded areas have typical coastal plain plant material and animals. The bay of Lake Marion that comes close to the visitor's area is usually full of waterfowl during the winter season. Other units have ponds full of waterfowl in season and alligators most of the year. Butterflies abound in the open fields.

Directions to Santee National Wildlife Refuge: From Columbia, take I-26 east 45 miles to Exit 154. Turn north on US 301 toward Santee, and follow that for 15 miles where it merges with I-95 heading north toward Summerton and Florence. As soon as it crosses Lake Marion (5 miles), take Exit 102 to US 15/301 heading north toward St. Paul and Manning. US 15/301 bends under the interstate and makes a sharp right turn. After this watch carefully for the sign on the left to Santee National Wildlife Refuge. Turn in there; the headquarters is on the left in about half a mile.



FLORA

Netted Chain Fern
Woodwardia areolata
Long-leaf Pine
Pinus palustris
Bald-cypress
Taxodium distichum
Common Cat-tail
Typha latifolia
Wool-grass
Scirpus cyperinus
Spanish-moss
Tillandsia usneoides
Greenbrier; Catbrier
Smilax sp.
Black Willow
Salix nigra
Wax-myrtle; Southern Bayberry
Myrica cerifera
Water Oak
Quercus nigra
Heartleaf
Hexastylis arifolia
Lotus; Pond-nuts
Nelumbo lutea
Sassafras
Sassafras albidum

Wild Radish

Raphanus raphanistrum
Bitter Cress
Cardamine pennsylvanica
Sweet-gum
Liquidambar styraciflua
Sesbania
Sesbania esalata
Bladderpod
Glottidium vesicarium
Cranebill
Geranium carolinianum
Chinaberry
Melia azadirach
Poison-ivy
Rhus radicans
Red Maple
Acer rubrum
Silver Maple
Acer saccharinum
Water-milfoil
Myriophyllum brasiliense
Flowering Dogwood
Cornus florida
Yellow Jessamine
Gelsemium sempervirens
Common Henbit
Lamium amplexicaule

Veronica

Veronica sp.
Japanese Honeysuckle
Lonicera japonica

FAUNA

Basilica Spider (egg)
Mecynogea lemniscata
Goldenrod Ball Gall (fly)
Eurotia solidaginis
Pied-billed Grebe
Podilymbus podiceps
Anhinga; Snakebird
Anhinga anhinga
Double-crested Cormorant
Phalacrocorax auritus
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Tundra Swan
Cygnus columbianus
Canada Goose
Branta canadensis
Mallard
Anas platyrhynchos
American Black Duck
Anas rubripes

Green-winged Teal

Anas crecca
American Wigeon
Anas americana
Ring-necked Duck
Aythya collaris
Lesser Scaup
Aythya affinis
Bufflehead
Bucephala albeola
Hooded Merganser
Lophodytes cucullatus
American Coot
Fulica americana
Killdeer
Charadrius vociferus
American Woodcock
Scolopax minor
Caspien Tern
Sterna caspia
Bald Eagle
Haliaeetus leucocephalus
Northern Harrier
Circus cyaneus
Red-tailed Hawk
Buteo jamaicensis
Mourning Dove
Zenaidura macroura

Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
Blue Jay
Cyanocitta cristata
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus

Ruby-crowned Kinglet
Regulus calendula
Eastern Bluebird
Sialia sialis
American Robin
Turdus migratorius
Northern Mockingbird
Mimus polyglottus
Cedar Waxwing
Bombycilla cedrorum
Black-and-white Warbler
Mniotilta varia

Yellow-rumped Warbler
Dendroica coronata
Rufous-sided Towhee
Pipilo erythrophthalmus
Red-winged Blackbird
Agelaius phoeniceus
White-tailed Deer (tracks)
Odocoileus virginianus



(Photo by R. Ensmitt)
Great blue heron, *Ardea herodias*.



Colleton County

Ashepoo River (Canoe Trip) (ACE Basin) Colleton County September 9, 1995

The 5.5 mile section of the Ashepoo River SCAN explored is easily canoed, and is the best way to see the river. This section widens from a relatively narrow blackwater creek to a brackish, tide-influenced river, to a salt marsh. Often there are large mats of floating plants, although on the day SCAN canoed this section, heavy rain had washed them away. Water ash, sweet gum, red maple and swamp dogwood were common. In an area near old rice fields, some wild rice was found flowering along the banks.

Insect larvae were interesting finds on this day. An unusual moth caterpillar was found on a deciduous holly. About an inch and a half long, it was stocky and appeared triangular in cross section, wide at the bottom and narrowing to a ridge on top. It was covered with long gray hairs with two small spots of white hairs; the upper ridge was decorated with a line of tawny hairs. It looked most like a puss caterpillar or a flannel moth. Also found was a colorful black swallowtail larva feeding on water parsnip. He demonstrated his erectile organs on cue; they looked like a pair of yellow horns which appeared behind his head, emitted a formic-acid-like substance, and then disappeared.

Directions to Ashepoo River (to canoe): Southbound on I-95, take Exit 57, turning onto SC 64 toward Walterboro. Proceed through Walterboro, staying to your right, until you come to the junction with SC 303 on your left. Take SC 303 south, for 9.5 miles to the put-in site. You will pass through Ritter. To get to the take-out site continue on SC 303 south, passing through Green Pond, to the junction with US 17. Turn left (north toward Charleston), and go 4 miles. Shortly before reaching the Ashepoo River bridge, turn right onto a private dirt road and follow that to the river bank. Car-shuttle back to the put-in on SC 303 between Ritter and Green Pond.



Ashepool River (continued)
September 9, 1995

FLORA

Lichen

Leptogium cyanescens
Graphis scripta
Phaeographis dendritica
Lecidea sp.
Pennsaria trachythallina
Pennsaria subpeltata
Monnea constants
Haematomma puniceum
Haematomma elatium
Haematomma cismontanum
Lecanora cupressi
Lecanora varia
Tephromela atra
Bulbothrix goebelii
Bulbothrix goebelii f. *minor*
Hypotrachyna livida
Parmelia aurulenta
Parmelia harracensis
Parmelia minarum
Parmotrema crinitum f. *ultralucent*
Parmotrema mellissii
Parmotrema nicholsonianum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema robustum
Floroparmelia caperata
Canoparmelia caroliniana
Canoparmelia tesiana
Punctelia rudecta
Rimelia reticulata
Rimelia rubridiopia
Ramalina americana
Usnea mutabilis
Usnea strigosa
Baerella punctata
Baerella curatellae
Heterodermia albicans
Pyxine sorediata
Physconia enteroxantha
Anisotrachetium pyrenuloides
Pyrenula laevigata
Tripetelium virens
Tripetelium floridanum
Royal Fern
Osmunda regalis spectabilis
Southern Lady Fern
Athyrium asplenoides
Virginia Chain Fern
Woodwardia virginica
Netted Chain Fern
Woodwardia arifolia
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana

Common Cat-tail
Typha latifolia
Arrowhead; Duck-potato
Sagittaria filicata
Frog's-bit
Limnolobos spongia
Cane; Switch Cane
Arundinaria gigantea
Cord Grass
Spartina cynosuroides
Wild Rice
Zizania aquatica
Saw-grass
Cladium jamaicense
Dwarf Palmetto
Sabal minor
Golden-club
Orontium aquaticum
Duckweed
Lemna sp.
Spanish-moss
Tillandsia usneoides
Water-hyacinth
Eichhornia crassipes
Pickersweed
Pontederia cordata
Wax-myrtle; Southern Bayberry
Myrica cerifera
Water Hickory
Carya aquatica
River Birch
Betula nigra
American Hornbeam; Ironwood
Carpinus caroliniana
Swamp Chestnut Oak
Quercus michauxii
Laurel Oak
Quercus laurifolia
Sugarberry; Hackberry
Celtis laevigata
False Nettle
Boehmeria cylindrica
Mistletoe
Phoradendron serotinum
Teatthumb; Scratchgrass
Polygonum arifolium
Alligator-weed
Alternanthera philoxeroides
Water-lily
Nymphaea odorata
Fanwort
Cabomba caroliniana
Southern Magnolia
Magnolia grandiflora
Redbay
Persea borbonia
Virginia-willow
Itia virginica
Sweet-gum
Liquidambar styraciflua
Swamp Rose
Rosa palustris

Indigo-bush

Amorpha fruticosa
Groundnut
Apios americana
Chinese Tallow-tree
Sapium sebiferum
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Winterberry; Black-alder
Ilex verticillata
Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
Grape
Vitis sp.
Seashore Mallow
Kosteletskyia virginica
Water-milfoil
Myriophyllum pinnatum
Water Parsnip
Sium suave
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Swamp Dogwood; Stiff Cornel
Cornus stricta
Blueberry
Vaccinium sp.
Persimmon
Diospyros virginiana
Water Ash; Carolina Ash
Fraxinus caroliniana
Dodder
Cuscuta sp.
Lavender Marsh Morning-glory
Ipomoea sagittata
Trumpet Vine
Campsis radicans
Button-bush
Cephalanthus occidentalis
Japanese Honeysuckle
Lonicera japonica
Possumhaw Viburnum
Viburnum nudum
Arrowwood
Viburnum dentatum
Cardinal-flower
Loebelia cardinalis
Climbing Hempweed
Mikania scandens
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Climbing Aster
Aster carolinianus

FAUNA

Lubber Grasshopper
Brachystola magna
Red Imported Fire Ant
Solenopsis invicta
Bald-faced Hornet
Vespa maculata

Paper Wasp

Polistes sp.
River Cruiser (dragonfly)
Macromia sp.
Four-spotted Pennant (dragonfly)
Brachymeria gravida
Eastern Pondhawk
Erythemis simplicicollis
Golden-winged Skimmer
Libellula auripennis
Blue Dasher
Pachydiplax longipennis
Eastern Amberwing (dragonfly)
Perithemis tenera
Burrowing Water Beetle
Copius inflatus
Whirligig Beetle
Gyrinus lugens
Spotted Lady Beetle
Coleomegilla maculata
Skeletonizing Leaf Beetle
Galerucella notulata
Flea Beetle
Systena elongata
Alligatorweed Flea Beetle
Agasicles hygrophila
Black Swallowtail
Papilio polyxenes asterius
Bullfrog
Rana catesbiana
Pig Frog
Rana grylio
American Alligator
Alligator mississippiensis
Carolina Anole
Anolis carolinensis
Banded Water Snake
Nerodia fasciata
Great Egret
Casmerodius albus
White Ibis
Eudocimus albus
Wood Duck
Aix sponsa
Black Vulture
Coragyps atratus
American Kestrel
Falco sparverius
Northern Flicker
Colaptes auratus
Downy Woodpecker
Picoides pubescens
Pileated Woodpecker
Dryocopus pileatus
Acadian Flycatcher
Empidonax virescens
Tree Swallow
Tachycineta bicolor
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis

White-breasted Nuthatch
Sitta carolinensis
Carolina Wren
Thryothorus ludovicianus
Blue-gray Gnatcatcher
Polioptila caerulea
Northern Mockingbird
Mimus polyglottos
White-eyed Vireo
Vireo griseus
Northern Parula
Parula americana

Pine Warbler
Dendroica pinus
Northern Cardinal
Cardinalis cardinalis
Red-winged Blackbird
Agelaius phoeniceus
Common Grackle
Quiscalus quiscula
Boat-tailed Grackle
Quiscalus major



(Photo by A. Ciegler)
Sam Outen (left) learns to paddle on his first canoe trip.

Bear Island Wildlife Management Area (ACE Basin) Colleton County February 28, 1987 & February 27, 1988

The Bear Island area of what is now the ACE Basin Project was formerly Low Country plantations. This means wooded areas, open fields, and old rice ponds adjacent to tidal creeks. This diverse set of habitats naturally attracts an exceptionally large number of wildlife species. The most obvious of these are the birds, with wintering waterfowl, nesting bald eagles, and migrating song birds heading the list. Mammals are less obvious, but deer, otters, and fox squirrels are commonly seen. Outer coastal plain plant life also abounds. January and February often provide the highest concentration of birds, which is why SCAN chose these dates. Rain can often reduce the visibility and the state suffered a large amount of it on February 28, 1987. Rescheduling in 1988 gave a gorgeous day with lots of birds seen. Eagles put on quite a show on both trips. The 1988 trip gave members the opportunity to spot eaglets in the nest (using binoculars), with the adults soaring overhead against a gorgeous blue sky. A sight (and site) to remember!

Directions to Bear Island Wildlife Management

Area: From Walterboro, take SC 303 south through Green Pond to the intersection with US 17; turn left toward Charleston. Drive about 3 miles and then turn right (south) onto S 15-26, crossing over the railroad track. Pass Airy Hall Plantation, cross the Ashepoo River, and continue to the Bear Island WMA, about 13 miles. The entrance and headquarters buildings are on the left.



FLORA

Bracken

Pteridium aquilinum

Mosquito Fern

Azolla caroliniana

Long-leaf Pine

Pinus palustris

Loblolly Pine

Pinus taeda

Ditch-grass

Ruppia maritima

Cane; Switch Cane

Arundinaria gigantea

Cord Grass

Spartina patens

Spartina cynosuroides

Smooth Cord Grass

Spartina alterniflora

Broomsedge

Andropogon virginicus

Andropogon sp.

Bulrush

Scirpus robustus

Cabbage Palmetto

Sabal palmetto

Spanish-moss

Tillandsia usneoides

Black Needle Rush

Juncus roemerianus

Wax-myrtle; Southern Bayberry

Myrica cerifera

Post Oak

Quercus stellata

Live Oak

Quercus virginiana

Cherrybark Oak

Quercus falcata pagodaefolia

Black Jack Oak

Quercus marilandica

Bear Island Wildlife Management Area (continued) **February 28, 1987, and February 27, 1988**

Water Oak
Quercus nigra
Sawtooth Oak
Quercus acutissima
Common Chickweed
Stellaria media
Sassafras
Sassafras albidum
Sweet-gum
Liquidambar styraciflua
Sesbania
Sesbania exaltata
Bladderpod
Glottidium vesicarium
Coral-bean
Erythrina herbacea
Cranebill
Geranium carolinianum
Red Maple
Acer rubrum
Johnny-jump-up
Viola rupestris
Marsh-elder
Iva frutescens
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Violet-toothed Polypore
Trichaptum biformis

FAUNA

Basilia Spider (egg)
Mecynogen lenniscatus
Fire Ant
Solenopsis sp.
Palmetto Tortoise Beetle
Hemiphaera cyanica
Cloudless Sulphur
Phoebastria senae eubule
Sleepy Orange (butterfly)
Eurema nicippe
American Alligator
Alligator mississippiensis
Yellow-bellied Slider
Chrysemys scripta
Pied-billed Grebe
Podilymbus podiceps
Anhinga; Snakebird
Anhinga anhinga
Double-crested Cormorant
Phalacrocorax auritus
American Bittern
Botaurus lentiginosus
Black-crowned Night-Heron
Nycticorax nycticorax
Tricolored Heron
Egretta tricolor
Little Blue Heron
Egretta caerulea
Snowy Egret
Egretta thula
Great Egret
Ardea herodias

Great Blue Heron
Ardea herodias
Glossy Ibis
Plegadis falcinellus
White Ibis
Eudocimus albus
Canada Goose
Branta canadensis
Mottled Duck
Anas fulvigula
Green-winged Teal
Anas crecca
American Wigeon
Anas americana
Northern Pintail
Anas acuta
Northern Shoveler
Anas clypeata
Blue-winged Teal
Anas discors
Canvasback
Aythya valisineria
Ring-necked Duck
Aythya collaris
Hooded Merganser
Lophodytes cucullatus
Virginia Rail
Rallus limicola
Common Moorhen
Gallinula chloropus
American Coot
Fulica americana
Killdeer
Charadrius vociferans
Greater Yellowlegs
Tringa melanoleuca
Common Snipe
Gallinago gallinago
Laughing Gull
Larus atricilla
Bonaparte's Gull
Larus philadelphia
Ring-billed Gull
Larus delawarensis
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
Bald Eagle
Haliaeetus leucocephalus
Northern Harrier
Circus cyaneus
Red-tailed Hawk
Buteo borealis
Osprey
Pandion haliaetus
Belted Kingfisher
Ceryle alcyon
Pileated Woodpecker
Dryocopus pileatus
Tree Swallow
Ichneutes bicolor

Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Fish Crow
Corvus ossifragus
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Blue-gray Gnatcatcher
Poliophtila caerulea
American Robin
Turdus migratorius
Loggerhead Shrike
Lanius ludovicianus
Northern Mockingbird
Mimus polyglottos
Yellow-rumped Warbler
Dendroica coronata
Pine Warbler
Dendroica pinus

Rufous-sided Towhee
Pipilo erythrophthalmus
White-throated Sparrow
Zonotrichia albicollis
Eastern Meadowlark
Sturnella magna
Red-winged Blackbird
Agelaius phoeniceus
Boat-tailed Grackle
Quiscalus major
Virginia Opossum (tracks)
Didelphis virginiana
Marsh Rabbit
Sylvilagus palustris
Raccoon (tracks) (scat)
Procyon lotor
River Otter
Lutra canadensis
Bobcat; Wildcat (tracks) (scat)
Felis rufus
White-tailed Deer
Odocoileus virginianus



Bald Eagle, *Haliaeetus leucocephalus*.

(Photos by L. Greenlee)

Donnelley Wildlife Management Area

(ACE Basin)

Colleton County

February 26, 1994

Old rice fields form the backbone of the areas of the Donnelley tract open to the public. The nature trail, which SCAN walked in a speedy five and a half hours, is about 2.5 miles long around several old rice impoundments. The trail then entered an old-growth forest with huge magnolias, live oaks, walnuts and sassafras. Many birds were seen, including residents and migrants. Many of these birds were using the old rice impoundments, as were about 20 baby alligators, who were floating on the surface soaking up the warming sun rays. Part of the trail uses old dikes, and the wildlife used the dikes, too, judging from the numerous tracks of many different kinds of animals. There is even an early-1800's small family graveyard for history enthusiasts to examine.

Directions to Donnelley Wildlife Management

Area: South bound on I-95, take Exit 57, turning left onto SC64 toward Walterboro. Travel through Walterboro, staying to your right, until you come to the junction with SC 303 on your left. Take SC 303 south, passing through Green Pond, and drive 4 miles to the junction with US 17. Turn left (north toward Charleston), and then immediately turn right into the Donnelley entrance. Drive down the road about half a mile to the office on the left.



FLORA

Lichen

Leptogium cyanescens
Leptogium marginellum
Graphis scripta
Graphis atrorubens
Graphis elegans
Phaeographis dendritica
Phaeographis erumpens
Coenogonium interplexum
Coenogonium moniliforme
Bacidia incompta
Brigitanea leucoxantha
Lecidea carnealbens
Lecidea oreinoides
Cladonia bacillaris
Cladonia didyma
Cladonia parvifolia
Cladonia subradiata
Pertusaria ostiolata
Pertusaria subpertusa
Pertusaria texana
Haematomma puniceum
Haematomma elatum
Lecanora cupressi
Lecanora varia
Ochrolechia africana
Bulbothrix confederata
Bulbothrix goebellii
Bulbothrix isidifolia
Hypotrachyna livida

Hypotrachyna pustulifera
Parmelia auralenta
Parmelia minarum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema michauxianum roseum
Parmotrema perforatum
Parmotrema rampodense
Parmotrema tinctorum
Parmotrema ultralucens
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Tuckermannopsis oakesiana
Usnea rubicunda
Usnea strigosa
Buellia punctata
Buellia dialata
Buellia curatellae
Buellia disciformis
Dirinaria aspera
Dirinaria confusa
Dirinaria picta
Dirinaria purpurascens
Physcia americana
Physcia crispata
Physcia millegrana
Heterodermia albicans
Heterodermia obscurata
Heterodermia spaltans sp. nov.

Pyxine caesiopruinosa
Rinodina roboris
Anthracotheium caroliniana
Anthracotheium leucostomum
Pyrenula cruenta
Arthonia reniformis
Arthonia quintaria
Trypethelium virens
Trypethelium floridanum
Melanomma sp.
Virginia Chain Fern
Woodwardia virginica
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Spruce Pine
Pinus glabra
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Cane; Switch Cane
Arundinaria gigantea
Yellow-groove Bamboo
Phyllostachys aurea

Giant Foxtail Grass
Setaria magna
Beard Grass
Erianthus sp.
Dwarf Palmetto
Sabal minor
Cabbage Palmetto
Sabal palmetto
Giant Duckweed
Spirodela punctata
Bogmat
Wolffia floridana
Spanish-moss
Tillandsia usneoides
Soft Rush
Juncus effusus
Fringed Greenbrier
Smilax bona-nox
Snowdrops
Leucojum aestivum
Black Willow
Salix nigra
Wax-myrtle; Southern Bayberry
Myrica cerifera
Black Walnut
Juglans nigra
Hickory
Carya sp.
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia

Donnelley Wildlife Management Area (continued)

February 26, 1994

White Oak
Quercus alba
Live Oak
Quercus virginiana
Black Oak
Quercus velutina
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
American Elm
Ulmus americana
Sugarberry; Hackberry
Celtis laevigata
Mistletoe
Phoradendron serotinum
Alligator-weed
Alternanthera philoxeroides
Common Chickweed
Stellaria media
Sweetbay
Magnolia virginiana
Southern Magnolia
Magnolia grandiflora
Redbay
Persea borbonia
Sassafras
Sassafras albidum
Sweet-gum
Liquidambar styraciflua
Dewberry
Rubus trivialis
Blackberry; Brambles
Rubus sp.
Sesbania
Sesbania exaltata
Bladderpod
Glottidium vesicarium
Chinese Tallow-tree
Sapium sebiferum
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Yaupon
Ilex vomitoria
Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
St.-Andrew's-cross
Hypericum hypericoides
Primrose-leaved Violet
Viola prunifolia
Violet
Viola sp.
Water Pennywort
Hydrocotyle ranunculoides
Intelligence-plant
Centella asiatica
Flowering Dogwood
Cornus florida
Buckthorn Bumelia
Bumelia lycioides
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Periwinkle
Vinca major
Dodder
Cuscuta sp.
Beautyberry
Callicarpa americana
Cross Vine
Anisotrichus capreolata
Partridge-berry
Mitchella repens
Japanese Honeysuckle
Lonicera japonica
American Elderberry
Sambucus canadensis
Elephant's-foot
Elephantopus sp.
Dog-fennel
Eupatorium capillifolium
Cudweed
Gnaphalium purpureum
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Heterotheca
Heterotheca granifolia

FAUNA

Crab Spider
Misumenops asperatus
Giant Water Bug
Belostomatidae
Leafy Oak Gall (wasp)
Andricus foliatus
Citrine Forktail (damselfly)
Ischnura hastata
Duckweed Firetail (damselfly)
Telebasis bisleri
Colorful Foliage Ground Beetle
Apenes sinuata
Predacious Diving Beetle
Laccophilus schwartzii
Hydroporus lobatus
Agabus punctatus
Thermonectus basilaris basilaris
Water Scavenger Beetle
Tropisternus lateralis nimbatus
Cloudless Sulphur
Phoebastria tennae cubule
Spring Azure (butterfly)
Celastrina ladon
Slimy Salamander
Plethodon glutinosus
Southern Cricket Frog
Acris gryllus
Green Treefrog
Hyla cinerea
Treefrog
Hyla sp.

Green Frog; Bronze Frog
Rana clamitans
Southern Leopard Frog
Rana sphenoccephala
American Alligator
Alligator mississippiensis
Carolina Anole
Anolis carolinensis
Anhinga; Snakebird
Anhinga anhinga
Double-crested Cormorant
Phalacrocorax auritus
Tricolored Heron
Egretta tricolor
Little Blue Heron
Egretta caerulea
Snowy Egret
Egretta thula
Cattle Egret
Bulbicus ibis
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Glossy Ibis
Plegadis falcinellus
White Ibis
Eudocimus albus
Green-winged Teal
Anas crecca
Wood Duck
Aix sponsa
Common Moorhen
Gallinula chloropus
Killdeer
Charadrius vociferus
Greater Yellowlegs
Tringa melanoleuca
Lesser Yellowlegs
Tringa flavipes
Forster's Tern
Sterna forsteri
Caspian Tern
Sterna caspia
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
Bald Eagle
Haliaeetus leucocephalus
Northern Harrier
Circus cyaneus
Red-shouldered Hawk
Buteo lineatus
Red-tailed Hawk
Buteo jamaicensis
Osprey
Pandion haliaetus
Wild Turkey (tracks)
Meleagris gallopavo
Red-bellied Woodpecker
Melanerpes carolinus
Downy Woodpecker
Picoides pubescens
Yellow-bellied Sapsucker
Sphyrapicus varius

Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
Tree Swallow
Tachycineta bicolor
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
White-breasted Nuthatch
Sitta carolinensis
Carolina Wren
Thryothorus ludovicianus
Golden-crowned Kinglet
Regulus satrapa
Ruby-crowned Kinglet
Regulus calendula
Blue-gray Gnatcatcher
Polioptila caerulea
Eastern Bluebird
Sialia sialis
Hermit Thrush
Catharus guttatus
Solitary Vireo
Vireo solitarius
Black-and-white Warbler
Mniotilta varia
Yellow-rumped Warbler
Dendroica coronata
Yellow-throated Warbler
Dendroica dominica
Pine Warbler
Dendroica pinus
Northern Cardinal
Cardinalis cardinalis
Savannah Sparrow
Passerculus sandwichensis
Song Sparrow
Melospiza melodia
Chipping Sparrow
Spizella passerina
White-throated Sparrow
Zonotrichia albicollis
Swamp Sparrow
Melospiza georgiana
Red-winged Blackbird
Agelaius phoeniceus
Rusty Blackbird
Euphagus carolinus
Common Grackle
Quiscalus quiscula
Raccoon (tracks)
Procyon lotor
River Otter (tracks)
Lutra canadensis
Bobcat; Wildcat (tracks, scat)
Felis rufus
Wild Pig (tracks)
Sus scrofa
White-tailed Deer (tracks)
Odocoileus virginianus

Edisto River Canoe Trail

Colleton County

August 8, 1992

Changing one's point of view from land to water gives a better perspective of a riverine habitat. It is a very effective way to get a good look at plant material and animals that inhabit areas we humans tend to avoid -- wet and muddy. On this trip the beauty of the river was enhanced by good looks at aquatic species of trees, shrubs and birds that normally go unnoticed. Even though it was hot in August, sandbars provided places to stash the canoes while everyone got a good cooling swim.

Directions to the Edisto River Canoe Trail: From I-95 between I-26 and Walterboro, take Exit 68, SC 61, east to Canadys, only 3 miles. Turn left (north) onto US 15 toward St. George. The entrance to Colleton State Park is on the left in less than a mile, just before the Edisto River bridge.



FLORA

Netted Chain Fern
Woodwardia areolata
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Spruce Pine
Pinus glabra
Bald-cypress
Taxodium distichum
Arrowhead; Duck-potato
Sagittaria graminea graminea
Dwarf Palmetto
Sabal minor
Spanish-moss
Tillandsia usneoides
Yellow Star-grass
Hypoxis hirsuta
Black Willow
Salix nigra
Water Hickory
Carya aquatica
River Birch
Betula nigra
American Hornbeam; Ironwood
Carpinus caroliniana
Overcup Oak
Quercus lyrata
Water-elm; Planer-tree
Planera aquatica
Alligator-weed
Alternanthera philoxeroides
Climbing-hydrangea
Decumaria barbara
Sweet-gum
Liquidambar styraciflua

May Haw
Crataegus aestivalis
Hawthorn
Crataegus sp.
Water Locust
Gleditsia aquatica
Sebastian-bush
Sebastiania ligustrina
Poison-ivy
Rhus radicans
Titi
Cyrtilla racemiflora
Red Maple
Acer rubrum
Pepper-vine
Ampelopsis arborea
Water Tupelo
Nyssa aquatica
Swamp Dogwood; Stiff Cornel
Cornus stricta
Water Ash; Carolina Ash
Fraxinus caroliniana
Swamp Milkweed
Asclepias perennis
Shade Mudflower
Micranthemum umbrosum
Trumpet Vine
Campsis radicans
Soldier Grassy-club
Cordyrops militaris

FAUNA

Flat Stink Bug
Brochymena sp.
Dobsonfly (egg)
Corydalis cornuta
Pedunculate Ground Beetle
Dyschirius sp.

Whirligig Beetle
Dineutus discolor
Dineutus serrulatus serrulatus
Gyrinus lugens
Green June Beetle
Cotinus nitida
Buprestid Beetle
Buprestis rufipes
Wide-necked Longhorn Beetle
Prionus laticollis
Oval Leaf Beetle
Paria thoracica
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Cloudless Sulphur
Phoebis sennae eubule

Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Horace's Duskywing
Erynnis horatius
Brown Water Snake
Nerodia taxipilota
Wood Stork
Mycteria americana
White Ibis
Eudocimus albus
Spotted Sandpiper
Actitis macularia
Turkey Vulture
Cathartes aura
Yellow-billed Cuckoo
Coccyzus americanus
Ruby-throated Hummingbird
Archilochus colubris



Eastern tiger swallowtail, *Papilio glaucus*.

(Photo by L. Gierke)

Westvaco Bluff Trail

(ACE Basin)

Colleton County

November 20, 1993

Land that is being highly cultivated for crop production can still provide a fascinating slice of the natural (i.e., non-human) world. On a pine plantation Westvaco owns in Colleton County, they have educational programs and multi-use land policies that they are willing to share on a controlled basis. The Bluff Trail goes by pine plantings of varying ages, plus old rice fields, giving an interesting look at a controlled version of old field succession. The background information we were given before we started walking helped us understand what we were seeing. Pines that mature in 15 to 18 years are impressive, as are the old water-loving species along the edges of the rice fields. The old rice fields, being disturbed less recently, provided the most unusual plant material including some uncommon ferns. In one old-growth area, a marbled orb-weaver spider had spread her web across the trail. She was centered on it, just at eye level for most of us. The Westvaco employees who accompanied us seemed to have as much fun as we did.

Privately owned by Westvaco Paper Company. Advanced permission needed to visit this site.

Directions to Westvaco Bluff Trail: From I-95 near Walterboro, take Exit 53, SC 63, east toward Walterboro for about a mile. Turn south (right) onto US 17A toward Hendersonville and Savannah. Go approximately 11.4 miles, passing through Hendersonville. Turn left (south) onto S 15-66; the turn is just past a store and is marked by a small sign. Go about one-half mile and turn left again onto the first dirt road, the entrance road. Go 0.8 miles and turn left to the picnic shelter.



FLORA

Clubmoss

Lycopodium sp.

Cinnamon Fern

Osmunda cinnamomea

Royal Fern

Osmunda regalis spectabilis

Japanese Climbing Fern

Lygodium japonicum

Bracken

Pteridium aquilinum

Southern Lady Fern

Athyrium asplenoides

Thelypteris (fern)

Thelypteris kunthii

Fern

Thelypteris sp.

Netted Chain Fern

Woodsia areolata

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Loblolly Pine

Pinus taeda

Short-leaf Pine

Pinus echinata

Bald-cypress

Taxodium distichum

Eastern Red-cedar

Juniperus virginiana

Cane; Switch Cane

Arundinaria gigantea

Panic Grass

Panicum sp.

Beard Grass; Plume Grass

Eriophorum strictum

Beard Grass

Eriophorum sp.

Dwarf Palmetto

Sabal minor

Arrowleaf Arum

Peltandra virginica

Spanish-moss

Tillandsia usneoides

Greenbrier; Bullbrier

Smilax rotundifolia

Fringed Greenbrier

Smilax bona-nox

Sawbrier; Greenbrier

Smilax glauca

Sarsaparilla-vine

Smilax pumila

Greenbrier; Catbrier

Smilax sp.

Lizard's-tail

Saururus cernuus

Black Willow

Salix nigra

Wax-myrtle; Southern Bayberry

Myrica cerifera

Mockernut Hickory

Carya tomentosa

Pignut Hickory

Carya glabra

White Oak

Quercus alba

Overcup Oak

Quercus lyrata

Swamp Chestnut Oak

Quercus michauxii

Live Oak

Quercus virginiana

Red Oak

Quercus rubra

Black Oak

Quercus velutina

Spanish Oak

Quercus falcata

Cherrybark Oak

Quercus falcata pagodaefolia

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Laurel Oak

Quercus laurifolia

American Elm

Ulmus americana

Winged Elm

Ulmus alata

Sugarberry; Hackberry

Celtis laevigata

Red Mulberry

Morus rubra

False Nettle
Boehmeria cylindrica
Mistletoe
Phoradendron serotinum
Polygonum
Polygonum sp.
Tulip-poplar
Liriodendron tulipifera
Climbing-hydrangea
Decumaria barbara
Sweet-gum
Liquidambar styraciflua
Blackberry; Brambles
Rubus sp.
Redbud; Judas-tree
Cercis canadensis
Beggar-lice
Desmodium sp.
Bush-clover
Lespedeza sp.
American Wisteria
Wisteria frutescens
Coral-bean
Erythrina herbacea
Wood-sorrel
Oxalis florida
Cranesbill
Geranium carolinianum
Trifoliolate Orange
Poncirus trifoliata
Chinese Tallow-tree
Sapium sebiferum
Phyllanthus
Phyllanthus sp.
Poison-ivy
Rhus radicans
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Inkberry
Ilex glabra
Red Maple
Acer rubrum
Supple-jack; Rattan-vine
Berchemia scandens
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
Pepper-vine
Ampelopsis arborea
St.-Andrew's-cross
Hypericum hypericoides
St.-Peter's-wort
Hypericum stans
Hypericum
Hypericum sp.
Violet
Viola sp.
Waxweed
Cuphea carthagensis
Ludwigia
Ludwigia sp.

Pennywort
Hydrocotyle sp.
Mock Bishop's-weed
Ptilimnium capillareum
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Water Tupelo
Nyssa aquatica
Flowering Dogwood
Cornus florida
Sparkleberry
Vaccinium arboreum
Highbush Blueberry
Vaccinium corymbosum
Blueberry
Vaccinium sp.
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Water Ash; Carolina Ash
Fraxinus caroliniana
Yellow Jessamine
Gelsemium sempervirens
Gentian
Gentiana villosa
Gentiana sp.
Climbing Dogbane
Trachelospermum difforme
Common Morning-glory
Ipomoea purpurea
Brazilian Vervain
Verbena braziliensis
Beautyberry
Callicarpa americana
Skullcap
Scutellaria sp.
Lyre-leaved Sage
Salvia lyrata
Shrubby Savory
Satureja georgiana
Purple Gerardia
Agalinis purpurea
Gerardia
Agalinis virgata
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Catalpa; Catawba-tree
Catalpa speciosa
Partridge-berry
Mitchella repens
Bedstraw
Galium sp.
Glade's Lobelia
Lobelia glandulosa
Pyrrhopappus
Pyrrhopappus carolinianus
Thistle
Carduus sp.
Dog-fennel
Eupatorium capillifolium
Eupatorium compositifolium
False Hoarhound
Eupatorium rotundifolium

Climbing Hempweed
Mikania scandens
Marsh-fleabane
Pluchea camphorata
Cudweed
 Gnaphalium purpureum
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Frost Aster
Aster pilosus
Goldenrod
Solidago sp.
Spanish-needles
Bidens bipinnata
Emetic Russula
Russula emetica
Common Laccaria
Laccaria laccata

FAUNA

Chimney Crayfish
Cambarus diogenes
Orb-weaver
Neoscona domiciliorum
Marbled Orb-weaver
Araneus marmoreus
Short-horned Grasshopper
Metatleptea brevicornis
Wheel Bug
Arilus cristatus
Velvet-ant
Dasyneura sp.
Fire Ant
Solenopsis geminata
Hickory Girdler Beetle
Oncideres cingulata
Cloudless Sulphur
Phoebastria sennae eubule
Io Moth
Automeris io

Eastern Box Turtle
Terrapene carolina
Carolina Anole
Anolis carolinensis
White Ibis (bones)
Eudocimus albus
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
Wild Turkey (tracks)
Meleagris gallopavo
Rock Dove; Pigeon
Columba livia
Red-bellied Woodpecker
Melanerpes carolinus
Yellow-bellied Sapsucker
Sphyrapicus varius
Eastern Phoebe
Sayornis phoebe
American Crow
Corvus brachyrhynchos
Fish Crow
Corvus ossifragus
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Ruby-crowned Kinglet
Regulus calendula
American Robin
Turdus migratorius
Yellow-rumped Warbler
Dendroica coronata
Northern Cardinal
Cardinalis cardinalis
Bobcat; Wildcat (scar)
Felis rufus
White-tailed Deer
Odocoileus virginianus



(Photo by L. Smith)

Westvaco Bluff Trail winds through diverse habitat including tupelo swamp.



Darlington County

Dargan's Pond, March 27, 1993 and Sara Simons' Place, December 11, 1993 Darlington County

Dargan's Pond is a fishing lake on property owned by the Pee Dee Agricultural Experiment Station, and managed by the SC Department of Natural Resources. The adjacent fields provide open habitat, and the cypress trees at the head of the pond had nesting great blue herons at the time of the SCAN visit. SCAN was only in the area for about an hour.

Directions to Dargan's Pond: From the intersection of I-20 and I-95 near Florence, go north on I-95 to Exit 170 (SC 327). Turn north on S 21-26. In about 1 mile at the Darlington County line, the road number changes to S 16-495; ignore the change and continue in the same direction for another mile. The entrance to the public boat landing at Dargan's Pond is on the left.

Sara Simons was gracious enough to let us spend a day exploring the pond edge, woods, and field edges near her family's cabin. It was a cold blustery day, so birds and flying insects were staying hidden in sheltered areas. Plant material was not rare, but several items were unusual in the portions that had not been farmed in many years. A nice diversity of habitats added interest, on a day when the observers were trying to hide from the wind, just like the other animals. The list is typical for coastal plain areas in December.

Sara Simons' Place is privately owned. Not open to the public. Map is not provided.



FLORA

Cinnamon Fern

Osmunda cinnamomea

Bracken

Pteridium aquilinum

Netted Chain Fern

Woodwardia areolata

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Lebolly Pine

Pinus taeda

Short-leaf Pine

Pinus echinata

Eastern Red-cedar

Juniperus virginiana

Common Cat-tail

Typha latifolia

Cane; Switch Cane

Arundinaria gigantea

Duckmeat

Spirodela oligorrhiza

Duckweed

Lemna gibba

Spanish-moss

Tillandsia usneoides

Greenbrier; Bullbrier

Smilax rotundifolia

Fringed Greenbrier

Smilax bona-nox

Bamboo Smilax

Smilax laurifolia

Sweet-scented Smilax

Smilax smallii

Greenbrier; Cathrier

Smilax sp.

Crane-fly Orchid

Tipularia discolor

Wax-myrtle; Southern Bayberry

Myrica cerifera

Black Walnut

Juglans nigra

Mockernut Hickory

Carya tomentosa

Pignut Hickory

Carya glabra

Tag Alder

Alnus serrulata

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

White Oak

Quercus alba

Post Oak

Quercus stellata

Red Oak

Quercus rubra

Black Oak

Quercus velutina

Spanish Oak

Quercus falcata

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Heartleaf

Hexastylis arifolia

Mexican-tea

Chenopodium ambrosioides

Pokeweed; Pokeberry

Phytolacca americana

Spatterdock; Yellow Pond-lily

Nuphar luteum

Tulip-poplar

Liriodendron tulipifera

Sweetbay

Magnolia virginiana

Redbay <i>Persea borbonia</i>	Devil's-shoestring <i>Sida rhombifolia</i>	Sea-myrtle; Groundsel-tree <i>Baccharis halimifolia</i>	Darling Beetle <i>Diaperis maculata</i>
Sassafras <i>Sassafras albidum</i>	Prickly-pear <i>Opuntia compressa</i>	Tall Goldenrod <i>Solidago altissima</i>	<i>Platydena erythrocer</i>
Virginia-willow <i>Ita virginica</i>	Flowering Dogwood <i>Cornus florida</i>	Heterotheca <i>Heterotheca graminifolia</i>	<i>Alobates pennsylvanica</i>
Climbing-hydrangea <i>Decimaria barbara</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Bladder-stalks <i>Physalis inflata</i>	Red-boned Grain Beetle <i>Platydena ruficornis</i>
Sweet-gum <i>Liquidambar styraciflua</i>	Pinxter-flower; Pinxter-bloom <i>Rhododendron nudiflorum</i>	Tooth Fungus <i>Hericium sp.</i>	Hickory Girdler Beetle <i>Oncideres cingulata</i>
Dewberry <i>Rubus trivialis</i>	Sparkleberry <i>Vaccinium arboreum</i>	Purple-spored Puffball <i>Calvatia cyathiformis</i>	Spring Peeper <i>Hyla crucifer</i>
Blackberry; Brambles <i>Rubus sp.</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>	Tough Puffball <i>Mycenastrum corium</i>	Eastern Musk Turtle <i>Sternotherus odoratus</i>
Red Chokeberry <i>Sorbus arbutifolia</i>	Yellow Jessamine <i>Gelesium sempervirens</i>	FAUNA	Cooter <i>Chrysemys sp.</i>
Black Cherry; Wild Cherry <i>Prunus serotina</i>	Dodder <i>Cuscuta sp.</i>	Carolina Locust <i>Dasystelea carolina</i>	Anhinga; Snakebird <i>Anhinga anhinga</i>
Carolina Cherrylaurel <i>Prunus caroliniana</i>	Common Morning-glory <i>Ipomoea purpurea</i>	Boll's Sand Grasshopper <i>Spharagemon bolli</i>	Eastern Phoebe <i>Sayornis phoebe</i>
Redbud; Judas-tree <i>Cercis canadensis</i>	Beautyberry <i>Callicarpa americana</i>	Spur-throated Grasshopper <i>Melanoplus sp.</i>	Blue Jay <i>Cyanocitta cristata</i>
Sicklepod <i>Cassia obtusifolia</i>	Trumpet Vine <i>Campsis radicans</i>	Fire Ant <i>Solenopsis geminata</i>	Tufted Titmouse <i>Parus bicolor</i>
Cranesbill <i>Geranium carolinianum</i>	Partridge-berry <i>Mitchella repens</i>	Dogwood Club Gail (midge) <i>Mycodiplosis clavula</i>	American Robin <i>Turdus migratorius</i>
Chinaberry <i>Melia azedarach</i>	Japanese Honeysuckle <i>Lonicera japonica</i>	Crawling Water Beetle <i>Haliphys triopus</i>	Brown Thrasher <i>Toxostoma rufum</i>
Poison-ivy <i>Rhus radicans</i>	Possunhaw Viburnum <i>Viburnum nudum</i>	Predacious Diving Beetle <i>Laccophilus proximus</i>	White-throated Sparrow <i>Zonotrichia albicollis</i>
Winged Sumac <i>Rhus copallina</i>	Maple-leaf Viburnum <i>Viburnum acerifolium</i>	Hydroporus carolinus <i>Hydroporus clypealis</i>	Rusty Blackbird <i>Euphagus carolinus</i>
American Holly <i>Ilex opaca</i>	Cocklebur <i>Xanthium strumarium</i>	Hydroporus hybridus <i>Hydroporus sp.</i>	Rabbit <i>Sylvilagus sp.</i>
Strawberry-bush <i>Euonymus sp.</i>	Ragwort <i>Senecio sp.</i>	Coptotomus lenticus	Beaver <i>Castor canadensis</i>
Red Maple <i>Acer rubrum</i>	Dog-fennel <i>Eupatorium capillifolium</i>	Skin Beetle <i>Trux tuberculatus</i>	Bobcat; Wildcat <i>Felis rufus</i>
Muscadine; Bullace <i>Vitis rotundifolia</i>		<i>Trux sp.</i>	White-tailed Deer <i>Odocoileus virginianus</i>

Kalmia Gardens of Coker College, November 17, 1990
Segars Heritage Preserve, May 14, 1994
Darlington County

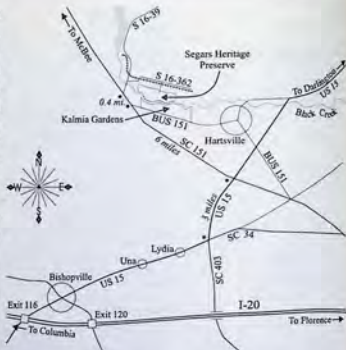
Visiting a garden doesn't sound like a good destination for studying natural history, but Kalmia Gardens is an exception. The gardens around the Hart House attract a nice representation of local birds and insects. In addition, there are trails through woodlands and down a bluff to the edge of Black Creek, a classic blackwater creek. In November, most herbaceous plants have been rendered dormant by cold, but here along some seepage areas and under some denser canopy areas, interesting flowering plants were found. This is one of the scattered areas on the edge of the sandhills, as it changes to inner Coastal Plain, where communities of plants reminiscent of the mountains are found. Since the SCAN visit, Segars Heritage Preserve has been established across Black Creek and a bridge installed to connect the two properties, expanding the types of habitats that may be seen here. SCAN appreciated Dr. George Sawyer, Director of Kalmia Gardens, for being our host.

Directions to Kalmia Gardens of Coker College: From I-20 between Columbia and Florence, take Exit 116 (US 15) north through Bishopville, Una, and Lydia. Turn left at the 4-way intersection (north toward Darlington) and continue on US 15 for about 3 more miles to SC 151. Turn left again toward McBee, passing through suburban Hartsville, and watch carefully for a sharp right turn onto Business 151 in about 6 miles. Turn right toward downtown Hartsville. Kalmia Gardens is on the left inside a wrought-iron entrance gate.

Segars Heritage Preserve occupies the floodplain side of Black Creek on the northwest edge of Hartsville. Kalmia Gardens sits on the opposite bluff side of the creek. This preserve had just become a part of the Heritage Trust program when a group of adventurous SCAN members decided to explore the area to help inventory the flora and fauna. No trails had yet been established, and the access bridge not yet built. Because the area had been heavily damaged by Hurricane Hugo, fallen trees were covered in greenbrier and blackberry vines. The preserve also includes a seepage area creating a white-cedar swamp.

Although directions to Segars Heritage Preserve are given here, access is through the grounds of Kalmia Gardens.

Directions to Segars Heritage Preserve: From I-20 between Columbia and Florence, take Exit 116 (US 15) north through Bishopville, Una, and Lydia. Turn left at the 4-way intersection (north toward Darlington) and continue on US 15 for about 3 more miles to SC 151. Turn left again toward McBee, passing through suburban Hartsville, and watch carefully for a sharp right turn onto Business 151 in about 6 miles. Go past that intersection 0.4 miles to the next street and turn right onto S 16-39. Cross Black Creek and immediately turn right onto S 16-362 before the railroad track. That street then crosses the track and bends to the right. Continue about a mile and turn right back over the track on an obscure road marked by a Heritage Preserve sign.



**Kalmia Gardens of Coker College
and Segars Heritage Preserve, (continued)
November 17, 1990 and May 14, 1994**

FLORA

Gelatinous Lichen

Leptogium cyaneescens
Graphis scripta
Bacidia schweinitzii
Bacidia incompta
Lecidea ruscicola
Cladonia bacillaris
Cladonia coniocneia
Pertusaria leucostoma
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subpervosa
Pertusaria texana
Pertusaria sinuomexicana
Pertusaria sp.
Maronea constans
Lecanora miculata
Lecanora cupressi
Lecanora pallida
Lecanora varia
Lecanora sp. #2 Brodo
Lecanora hybocarpa
Phlyctis sp.
Bulbothrix goebelii
Bulbothrix isidica
Hypotrachyna formosana

Hypotrachyna livida
Parmelina horrescens
Parmelina horrescens asiatica
Parmelina minurum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema subinctorium
Parmotrema xanthinum
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rufescentia
Rimelia reticulata
Ramalina americana
Ulex rubicunda
Buellia dialysa
Buellia curvata
Buellia disciformis
Physcia americana
Physcia sp.
Heterodermia albicans
Heterodermia obscurata
Peziza sorediata
Pyrenula cruenta
Pyrenula nitida
Trypethelium virens
Melasmoma sp.

Peat Moss

Sphagnum sp.
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Netted Chain Fern
Woodwardia areolata
Ebony Spiderwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Short-leaf Pine
Pinus echinata
Bald-cypress
Taxodium distichum
Atlantic White-cedar
Chamaecyparis thyoides
Cane; Switch Cane
Arundinaria gigantea

Bogmoss

Mayaca sp.
Spanish-moss
Tillandsia usneoides
Roseling; Spiderwort
Tradescantia rosea
Greenbrier; Bullbrier
Smilax rotundifolia
Sawbrier; Greenbrier
Smilax glauca
Bamboo Smilax
Smilax laurifolia
Greenbrier; Catbrier
Smilax sp.
Bear-grass
Yucca filamentosa
Dwarf Iris
Iris verna
Downy Rattlesnake-plantain
Goodyera pubescens
Swamp Bayberry
Myrica heterophylla
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
White Oak
Quercus alba

Post Oak <i>Quercus stellata</i>	Beggar-lice <i>Desmodium sp.</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Elephant's-foot <i>Elephantopus tomentosus</i>
Scrubby Post Oak <i>Quercus margareta</i>	Sericea <i>Lespedeza cuneata</i>	Carolina-laurel <i>Rhododendron minus</i>	Cudweed <i>Gnaphalium purpureum</i>
Turkey Oak <i>Quercus laevis</i>	Orange Milkwort <i>Polygala lutea</i>	Swamp Honeysuckle <i>Rhododendron viscosum</i>	Sea-myrtle; Groundsel-tree <i>Baccharis halimifolia</i>
Spanish Oak <i>Quercus falcata</i>	Tread-softly <i>Cnidioscolus stimulosus</i>	Azalea <i>Rhododendron sp.</i>	Starved Aster <i>Aster lateriflorus</i>
Black Jack Oak <i>Quercus marilandica</i>	Three-seeded Mercury <i>Acalypha sp.</i>	Sand-myrtle <i>Leptophyllum buxifolium</i>	Rosinweed <i>Silphium compositum</i>
Water Oak <i>Quercus nigra</i>	Flowering Spurge <i>Euphorbia corollata</i>	Mountain-laurel <i>Kalmia latifolia</i>	Black-knot <i>Apiosporina morbosa</i>
Blue-jack Oak <i>Quercus incana</i>	Poison Sumac <i>Rhus vernix</i>	Maleberry <i>Lyonia ligustrina</i>	Splash-cups <i>Cyathus striatus</i>
Willow Oak <i>Quercus phellos</i>	Poison-ivy <i>Rhus radicans</i>	Fetterbush <i>Lyonia lucida</i>	FAUNA
Laurel Oak <i>Quercus laurifolia</i>	Poison-oak <i>Rhus toxicodendron</i>	Staggerbush <i>Lyonia mariana</i>	Potter Wasp <i>Eumenes fraternus</i>
Red Mulberry <i>Morus rubra</i>	Winged Sumac <i>Rhus copallina</i>	Dog-hobble <i>Leucothoe axillaris</i>	Pied Skimmer <i>Libellula luctuosa</i>
Mistletoe <i>Phoradendron serotinum</i>	Tit <i>Cyrilla racemiflora</i>	Dog-hobble <i>Leucothoe axillaris axillaris</i>	Twelve-spotted Skimmer <i>Libellula pulchella</i>
Heartleaf <i>Hexastylis arifolia</i>	American Holly <i>Ilex opaca</i>	Sourwood <i>Oxydendrum arboreum</i>	Yellow-legged Meadowfly <i>Symptetrus vicinus</i>
Yellowroot <i>Xanthorhiza simplicissima</i>	Yaupon <i>Ilex vomitoria</i>	Trailing-arbutus <i>Epigaea repens</i>	Sparkling Jewelfly Damselfly <i>Calopteryx dimidiata</i>
Tulip-poplar <i>Liriodendron tulipifera</i>	Inkberry <i>Ilex glabra</i>	Dangleberry <i>Gaylussacia frondosa</i>	Variable Dancer (damselfly) <i>Argia fumipennis</i>
Sweetbay <i>Magnolia virginiana</i>	Sweet Gallberry <i>Ilex coriacea</i>	Sparkleberry <i>Vaccinium arboreum</i>	Searcher; Ground Beetle <i>Carabus vinctus</i>
Southern Magnolia <i>Magnolia grandiflora</i>	Holly <i>Ilex sp.</i>	Low-bush Blueberry <i>Vaccinium tenellum</i>	Pedunculate Ground Beetle <i>Clivina rufa</i>
Dwarf PawPaw <i>Asimina parviflora</i>	Hearts-a-burstin'-with-love <i>Euonymus americanus</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>	Seed-eating Ground Beetle <i>Amara cupreolata</i>
Redbay <i>Persea borbonia</i>	Red Maple <i>Acer rubrum</i>	Sheep-laurel; Lamb-kill <i>Kalmia angustifolia</i>	Dingy Ground Beetle <i>Selenophorus ellipticus</i>
Sassafras <i>Sassafras albidum</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Galax; Galaxia; Coltsfoot <i>Galax aphylla</i>	Dingy Ground Beetle <i>Discoderus paralleleus</i>
Virginia-willow <i>Ita virginica</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Persimmon <i>Diospyros virginiana</i>	Passalus; Bess-beetle <i>Popillius disjunctus</i>
Climbing-hydrangea <i>Decumaria barbara</i>	Summer Grape <i>Vitis aestivalis</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	Branch-and-leaf Buprestid <i>Agrilus sp.</i>
Sweet-gum <i>Liquidambar styraciflua</i>	Loblolly-bay <i>Gordonia lasianthus</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Soldier Beetle <i>Cantharis sp.</i>
Witch-hazel <i>Hamelis virginiana</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Gentian <i>Gentiana catesbaei</i>	Soft-winged Flower Beetle <i>Hyphaeus sp.</i>
Hamamelis virginiana	Prickly-pear <i>Opuntia compressa</i>	Sandhill Milkweed <i>Asclepias humistrata</i>	Tumbling Flower Beetle <i>Mordella melana</i>
Fothergilla gardenii	Water-milfoil <i>Myriophyllum sp.</i>	Ground-ivy; Ponyfoot <i>Dichondra carolinensis</i>	Tumbling Flower Beetle <i>Mordellistena pubescens</i>
American Sycamore <i>Platanus occidentalis</i>	Devil's-walking-stick <i>Aralia spinosa</i>	Beautyberry <i>Callicarpa americana</i>	Comb-clawed Beetle <i>Isomira sp.</i>
Five-fingers <i>Potentilla canadensis</i>	Pennywort <i>Hydrocotyle sibthorpioides</i>	Blue-curly <i>Trichostema dichotomum</i>	Ant-like Leaf Beetle <i>Arlotus sp.</i>
Blackberry; Brambles <i>Rubus sp.</i>	Golden-Alexander <i>Zizia sp.</i>	Shrubby Savory <i>Satureja georgiana</i>	Minute Lady Beetle <i>Delphastus pusillus</i>
Red Chokeberry <i>Sorbus arbutifolia</i>	Blackgum <i>Nyssa sylvatica</i>	Trumpet Vine <i>Campsis radicans</i>	Seven-spotted Lady Beetle <i>Coccinella septempunctata</i>
Shadbush; Serviceberry <i>Amelanchier sp.</i>	Black Tupelo; Blackgum <i>Nyssa sylvatica sylvatica</i>	Partridge-berry <i>Mitchella repens</i>	Multicolored Asian Lady Beetle <i>Harmonia axyridis</i>
Black Cherry; Wild Cherry <i>Prunus serotina</i>	Swamp Tupelo; Swamp Blackgum <i>Nyssa sylvatica biflora</i>	Possumhaw Viburnum <i>Viburnum nudum</i>	Ant-like Longhorn Beetle <i>Euderes picipes</i>
Redbud; Judas-tree <i>Cercis canadensis</i>	Flowering Dogwood <i>Cornus florida</i>	Wahlenbergia <i>Wahlenbergia marginata</i>	Leaf-mining Weevil <i>Eugnamptus collaris collaris</i>
Wild Indigo <i>Baptisia bracteata</i>	Sweet Pepperbush <i>Clethra alnifolia</i>	Small's Ragwort <i>Senecio smallii</i>	Acorn Weevil <i>Curculio sp.</i>
Leadplant; Indigo-bush <i>Amorpha sp.</i>			

**Kalmia Gardens of Coker College
and Segars Heritage Preserve, (continued)
November 17, 1990 and May 14, 1994**

Potato Bud Weevil
Anthonomus nigritus
Carolina Anole
Anolis carolinensis
Ground Skink
Scincella lateralis
Turkey Vulture
Cathartes aura
Barred Owl
Strix varia
Chimney Swift
Chaetura pelagica

Red-bellied Woodpecker
Melanerpes carolinus
Great Crested Flycatcher
Myiarchus cinerascens
Acadian Flycatcher
Empidonax virens
American Crow
Corvus brachyrhynchos
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus

Ruby-crowned Kinglet
Regulus calendula
Blue-gray Gnatcatcher
Poliophtila caerulea
American Robin
Turdus migratorius
Brown Thrasher
Toxostoma rufum
Yellow-throated Vireo
Vireo flavifrons
Red-Eyed Vireo
Vireo olivaceus
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Summer Tanager
Piranga rubra



(Photo by A. Cugin)

Carolina anole, *Anolis carolinensis*.

**Williamson Park and Woods Dargan
Darlington County
March 23, 1991**

Williamson Park, located within the limits of the town of Darlington, includes an extensive area along Swift Creek, a blackwater tributary of Black Creek. Highlighting the beauty of the area is a winding boardwalk through areas of water carpeted with parrot-feather. When SCAN visited, red maples were festooned with bright red "keys", as maple seeds are sometimes called. Winter birds were still feeding, but a few early spring arrivals were seen as well. This trip provided a good look at a classic blackwater creek-fed cypress swamp and all its inhabitants.

Directions to Williamson Park: From Columbia, take I-20 east toward Florence. At Exit 131, turn north on US 401 to Darlington, about 12 miles. Cross the US 52 bypass and continue to the center of Darlington. When you reach the courthouse square, continue east on SC 34 (Cashua Street) for 2 blocks beyond the square. Turn left (north) on Spring Street; the entrance to Williamson Park is about 3 blocks farther on the right side of Spring Street.



Woods Dargan protects an almost pristine riverine floodplain and adjacent high ground along Black Creek, providing a classic example of this type of ecosystem. This area is adjacent to the town of Darlington and is thereby vulnerable to the effects of development. Its protection is a wise conservation measure.

Directions to Woods Dargan: From Columbia, take I-20 east toward Florence. At Exit 131, turn north on US 401 to Darlington, about 12 miles. Cross the US 52 bypass and continue to the center of Darlington. At the intersection of SC 34 and BUS 52, continue east on SC 34 (Cashua Street) for 1.5 more miles; two blocks after crossing Swift Creek, turn right onto Country Club Boulevard. (If you come to Black Creek, turn around and go back.) Drive one block on Country Club, then fork left onto Wyandot; follow Wyandot to Woods Dargan at the end of the road near Black Creek.

Owned by the Black Creek Land Trust. Access limited. Call (843) 393-3881/2211.

FLORA

Lichen

Graphis scripta
Phaeographis dendritica
Bacidia chlorantha
Bacidia schweinitzii
Bacidia incompta
Bacidia sp.
Leptogium austroamericanum
Lecidea myriocarpoides
Lecidea sp.
Pyrrhospora varians
Cladonia evansii
Cladonia capitata
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella scyphulifera
Cladonia floerkeana
Cladonia leporina
Cladonia macilenta
Pernisaria leucostoma
Pernisaria pustulata
Pernisaria ostiolata
Pernisaria paratuberculifera
Pernisaria subpertusa
Pernisaria texana
Pernisaria tetralthalmia
Pernisaria velata
Pernisaria macounii
Pernisaria ophthalmiza
Pernisaria sp.
Lecanora hypotoides
Lecanora miculata
Lecanora willeyi
Lecanora cupressi
Lecanora varia
Lecanora allophana argentata
Lecanora sp.
Ochrolechia africana
Phycis sp.
Candelaria fibrosa
Hypotrachyna livida
Parmelina dissecta
Parmelina galbina
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema reticulatum
Parmotrema robustum
Parmotrema subisidiosum
Pseudoparmelia amazonica
Pseudoparmelia caroliniana
Xanthoparmelia subramigera
Punctelia rufecta
Tuckermanniopsis fendleri
Ramalina americana
Usnea strigosa
Buellia parasema
Buellia punctata
Physcia alpicola
Physcia millegrana
Physcia sorediosa
Heterodermia albicans
Heterodermia obscurata
Rhodopyscia rubropulchra
Rinodina sophodes

Physciella cloantha
Pyrenula nitida
Mycoporum pyrenocarpum
Hyperphyscia syncolla
Trypethelium virens
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Sensitive Fern
Onclea sensibilis
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Bald-cypress
Taxodium distichum
Brazilian Elodea
Egeria densa
Cane; Switch Cane
Arundinaria gigantea
Dwarf Palmetto
Sabal minor
Arrowleaf Arum
Peltandra virginica
Duckmeat
Spiradella oligorrhiza
Spanish-moss
Tillandsia usneoides
Woodrush
Luzula echinata
Fringed Greenbrier
Smilax bona-nox
Sawbrier; Greenbrier
Smilax glauca
Sweet-scented Smilax
Smilax smallii
Atamasco-lily
Zephyranthes atamasco
Dwarf Iris
Iris verna
Lizard's-tail
Saururus cernuus
Wax-myrtle; Southern Bayberry
Myrica cerifera
American Hornbeam; Ironwood
Carpinus caroliniana
White Oak
Quercus alba
Post Oak
Quercus stellata
Swamp Chestnut Oak
Quercus michauxii
Spanish Oak
Quercus falcata
Black Jack Oak
Quercus marilandica
Laurel Oak
Quercus laurifolia
Mistletoe
Phoradendron serotinum
Heartleaf
Hexastylis arifolia
Common Chickweed
Stellaria media

Mouse-ear Chickweed
Cerastium glomeratum
Small-flowered Crowfoot
Ranunculus abortivus
Nandina
Nandina domestica
Tulip-poplar
Liriodendron tulipifera
Sweetbay
Magnolia virginiana
Southern Magnolia
Magnolia grandiflora
Anise
Illicium sp.
Hairy Bitter Cress
Cardamine hirsuta
Sweet-gum
Liquidambar styraciflua
Indian Strawberry
Duchesnea indica
Common Apple
Malus punia
Red Chokeberry
Sorbus arbutifolia
Shadbush
Amelanchier canadensis
Black Cherry; Wild Cherry
Prunus serotina
Carolina Cherry-laurel
Prunus caroliniana
Redbud; Judas-tree
Cercis canadensis
American Wisteria
Wisteria frutescens
Violet Wood-sorrel
Oxalis violacea
Water Starwort
Callitriche heterophylla
Water Starwort
Callitriche flexilis
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
Titi
Cyrilla racemiflora
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Boxelder
Acer negundo
Red Maple
Acer rubrum
Spotted Touch-me-not
Impatiens capensis
St. Andrew's-cross
Hypericum hypericoides
Primrose-leaved Violet
Viola prunifolia
Seed-box
Ludwigia alternifolia
Water-milfoil
Myriophyllum brasiliense
Flowering Dogwood
Cornus florida

Piedmont Azalea
Rhododendron canadense
Fetterbush
Lyonia lucida
Florida Leucothoe
Leucothoe populifolia
Coastal Honeybells
Leucothoe racemosa
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Elliott's Blueberry
Vaccinium elliotii
Privet; Ligustrum
Ligustrum japonicum
Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Periwinkle
Vinca major
Dodder
Cuscuta sp.
Beautyberry
Callicarpa americana
Glecoma
Glecoma hederacea
Common Henbit
Lamium amplexicaule
Red Henbit
Lamium purpureum
Stachys
Stachys sp.
Hedge-hyssop
Gratiola virginiana
Mazus
Mazus japonicus
Toadflax
Linaria canadensis
Corn Speedwell; Veronica
Veronica arvensis
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Partridge-berry
Mitchella repens
Cleavers
Galium aparine
Japanese Honeysuckle
Lonicera japonica
American Elderberry
Sambucus canadensis
Hawk's-beard
Crepis japonica
Climbing Hempweed
Mikania scandens
Smoky Polypore
Bjerkandera adusta
FAUNA
Common Baskettail (dragonfly)
Ephemerella cinnosura
Green Tiger Beetle
Cicindela sexguttata

Williamson Park and Woods Dargan (continued)
March 23, 1991

Minute Ground Beetle	Bark-gnawing Beetle
<i>Tachys ephippiatus</i>	<i>Corticotomus</i> sp.
<i>Tachyta nana inornata</i>	<i>Tenebroides laticollis</i>
Woodland Ground Beetle	Checked Beetle
<i>Agonum moerens</i>	<i>Thanatopus dubius</i>
Notch-mouthed Ground Beetle	Red-horned Grain Beetle
<i>Dicaeolus dilutatus</i>	<i>Platydema ruficornis</i>
Crawling Water Beetle	Darkling Beetle
<i>Haliphys fasciatus</i>	<i>Uloa punctulata</i>
Whirligig Beetle	<i>Alobates pennsylvanica</i>
<i>Discutus discolor</i>	Sap-feeding Beetle
<i>Gyrinus lugens</i>	<i>Prometopia scamoculata</i>
Water Scavenger Beetle	Flat Bark Beetle
<i>Tropisternus natator</i>	<i>Laemophloeus modestus</i>
Rove Beetle	<i>Brentus dubius</i>
<i>Quedius</i> sp.	False Skin Beetle
Paederine Rove Beetle	<i>Diplocoelus rudis</i>
<i>Rugilus dentatus</i>	Cylindrical Bark Beetle
Crab-like Rove Beetle	<i>Colydium lineola</i>
<i>Tachinus</i> sp.	Flower Longhorn Beetle
Obscure Rove Beetle	<i>Rhagium inquisitor</i>
<i>Aleochara</i> sp.	Zebra Swallowtail
Carion Beetle	<i>Eurytides marcellus</i>
<i>Silpha inaequalis</i>	Eastern Tiger Swallowtail
Hister Beetle	<i>Papilio glaucus</i>
<i>Platysoma lecontei</i>	Falcate Orangefly
<i>Platysoma carolinus</i>	<i>Anthocharis midea</i>
Passalus; Bess-beetle	Cloudless Sulphur
<i>Popillia disjunctus</i>	<i>Phoebus senae eubule</i>
Soldier Beetle	American Snout (butterfly)
<i>Cantharis hilineatus</i>	<i>Libytheana carinenta</i>
	Pearl Crescent
	<i>Phycodes tharsus</i>

Silver-spotted Skipper
<i>Ergoryxus clarus</i>
Pickert
<i>Esax</i> sp.
Southern Dusky Salamander
<i>Desmognathus auriculatus</i>
Slimy Salamander
<i>Plethodon glutinosus</i>
Southern Toad
<i>Bufo terrestris</i>
Toad (tracks)
<i>Bufo</i> sp.
Northern Cricket Frog
<i>Acris crepitans</i>
Green Treefrog
<i>Hyla cinerea</i>
Cooter (tracks)
<i>Chrysemys</i> sp.
Carolina Anole
<i>Anolis carolinensis</i>
Banded Water Snake
<i>Nerodia fasciata</i>
Green-backed Heron
<i>Butorides striatus</i>
Barred Owl
<i>Strix varia</i>
Belted Kingfisher
<i>Ceryle alcyon</i>
Red-bellied Woodpecker
<i>Melanerpes carolinus</i>
Hairy Woodpecker
<i>Picoides villosus</i>
Eastern Phoebe
<i>Sayornis phoebe</i>
Tufted Titmouse
<i>Parus bicolor</i>

Carolina Chickadee
<i>Parus carolinensis</i>
Carolina Wren
<i>Thryothorus ludovicianus</i>
Ruby-crowned Kinglet
<i>Regulus calendula</i>
Blue-gray Gnatcatcher
<i>Polioptila caerulea</i>
Northern Mockingbird
<i>Mimus polyglottos</i>
Prothonotary Warbler
<i>Protonotaria citrea</i>
Yellow-rumped Warbler
<i>Dendroica coronata</i>
Pine Warbler
<i>Dendroica pinus</i>
Northern Cardinal
<i>Cardinalis cardinalis</i>
Common Grackle
<i>Quiscalus quiscula</i>
Virginia Opossum (tracks)
<i>Didelphis virginiana</i>
Southern Short-tailed Shrew
<i>Blarina carolinensis</i>
Cotton Mouse
<i>Peromyscus gossypinus</i>
Muskrat
<i>Ondatra zibethicus</i>
Raccoon (tracks)
<i>Procyon lotor</i>
Domestic Cat (tracks)
<i>Felis catus</i>
White-tailed Deer (tracks)
<i>Odocoileus virginianus</i>



Dillon County

Little Pee Dee State Park

Dillon County

August 26, 1989

Diverse habitats from sandhills to riverine swamp are found at Little Pee Dee State Park. The nature trail passes by most of these habitats, except river's edge. The high ground and the lake edge provide a rich area to explore in a short distance. Most of the area has been timbered, and is therefore a second-growth forest. The biodiversity can be seen in the accompanying list. Some members put in canoes for a short distance, enjoying the river's edge. This change in perspective added much to the day.

Directions to Little Pee Dee State Park: From the intersection of I-95 and I-20 near Florence, take the I-20 spur to Florence and go east on US 76 through Marion to Mullins, about 39 miles. In the center of downtown Mullins, turn left (north) onto SC 41 and drive 6 miles to Fork. In Fork, continue on SC 57 toward Floydale and Dillon. Go about 2 miles and turn right (north) onto S 17-22. After crossing the Little Pee Dee River, watch for a sign designating a right turn into Little Pee Dee State Park.

FLORA

Peat Moss

Sphagnum sp.

Sand Spikemoss

Selaginella arenicola

Cinnamon Fern

Osmunda cinnamomea

Bracken

Pteridium aquilinum

Netted Chain Fern

Woodwardia areolata

Resurrection Fern

Polypodium polypodioides

Long-leaf Pine

Pinus palustris

Loblolly Pine

Pinus taeda

Bald-cypress

Taxodium distichum

Eastern Red-cedar

Juniperus virginiana

Common Cat-tail

Typha latifolia

Bur-reed

Sparganium americanum

Cane; Switch Cane

Arundinaria gigantea

Uniola Grass

Uniola laxa

Love Grass

Eragrostis refracta

Dulichium (sedge)

Dulichium arundinaceum

Beak-rush

Rhynchospora inexpectata

Nut-rush

Scleria triglomerata

Arrowleaf Arum

Peltandra virginica

Duckmeat

Spirodela oligorrhiza

Giant Duckweed

Spirodela punctata

Water-meal

Wolffia papulifera

Yellow-eyed-grass

Xyris caroliniana

Yellow-eyed-grass

Xyris sp.

Bog-buttons

Lachnocaulon beyrichianum

Spanish-moss

Tillandsia usneoides

Dayflower

Commelina erecta

Asian Spiderwort

Anemone keiskei

Roseling; Spiderwort

Tradescantia rosea graminea

Toad Rush

Juncus bufonius

Rush

*Juncus dichotomus**Juncus scirpoides*

Bear-grass

Yucca filamentosa

Redroot

Lachnanthes caroliniana

Blue-eyed-grass

*Sisyrinchium mucronatum**Sisyrinchium mucronatum**atlanticum*

Crane-fly Orchid

Tipularia discolor

Lizard's-tail

Saururus cernuus

Wax-myrtle; Southern Bayberry

Myrica cerifera

White Oak

Quercus alba

Swamp Chestnut Oak

Quercus michauxii

Turkey Oak

Quercus laevis

Spanish Oak

Quercus falcata

Black Jack Oak

Quercus marilandica

Water Oak

Quercus nigra

Blue-Jack Oak

Quercus incana

Willow Oak

Quercus phellos

False Nettle

Boehmeria cylindrica

Virginia Snakeroot

Aristolochia serpentaria

Heartleaf

Hexastylis arifolia

Smartweed

*Polygonum hydropiperoides**opelousanum*

Jointweed

Polygonella polygama

Wire-plant

Stilpnidactyla setacea

Water-lily

Nymphaea odorata

Water-shield

Brasenia schreberi

Sweetbay

Magnolia virginiana

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Virginia-willow

Hea virginica

Sweet-gum

Liquidambar styraciflua

Red Chokeberry

Sorbus arbutifolia

Dwarf Hawthorn

Crataegus uniflora

Black Cherry; Wild Cherry

Prunus serotina

Wild Sensitive-plant

Cassia nictitans

Rattlebox

Crotalaria angulata

Zornia

Zornia bracteata

Pencil-flower

Lythosanthus biflora

Beggar-ticks

Desmodium strictum

Beggar-lice

Desmodium sp.

Bicolor; Bush-clover

Lespedeza bicolor

Sericea

Lespedeza cuneata

Bush-clover

*Lespedeza hirta**Lespedeza* sp.

Tephrosia

Tephrosia spicata

Climbing Butterfly-pea

Centrosema virginianum

Dollar-weed

Rhynchosia reniformis

Tread-softly

Cnidocaulon stimulosus

Tragia

Tragia urens

Spotted Spurge

Euphorbia maculata

Polson-oak

Rhus toxicodendron

Winged Sumac

Rhus copallina

Titi

Cyrilla racemiflora

American Holly

Ilex opaca

Inkberry

Ilex glabra

Red Maple

Acer rubrum

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Summer Grape

Vitis aestivalis

Loblolly-bay

Gordonia lasianthus

St.-Andrew's-cross

Hypericum hypericoides

St.-Peter's-wort

Hypericum stans

St.-John's-wort

Hypericum densiflorum

Passionflower; Maypops

Passiflora incarnata

Prickly-pear

Opuntia compressa

Water Loosestrife

Decodon verticillatus

Pale Meadow-beauty

Rhexia mariana

Ludwigia

*Ludwigia leptocarpa**Ludwigia pilosa*

Blackgum

Nyssa sylvatica

Water Tupelo

Nyssa aquatica

Flowering Dogwood

Cornus florida

Sweet Pepperbush

Clethra alnifolia

Spotted Wintergreen

Chimaphila maculata

Indian-pipe

Monotropa uniflora

Sheep-kill; Lamb-kill

Kalmia angustifolia caroliniana

Honey-cup

Zenobia pulverulenta

Fetterbush

Lyonia lucida

Staggerbush

Lyonia mariana

Dangleberry

Gaylussacia frondosa

Elliott's Blueberry

Vaccinium elliotii

Highbush Blueberry

Vaccinium corymbosum

Persimmon

Diospyros virginiana

Horse-sugar; Sweetleaf

Symplocos tinctoria

Yellow Jessamine

Gelsemium sempervirens

Polypremum

Polypremum procumbens

Milkweed

Asclepias sp.

Little Pee Dee State Park (continued)
August 26, 1989

Compact Dodder
Cuscuta compocia
White Morning-glory
Bonania patens
Skullcap
Scutellaria lateriflora
Scutellaria sp.
Bugle-weed
Lycopus virginicus
Seymeria
Seymeria cassioides
Lousewort
Pedicularis canadensis
Bladderwort
Utricularia sp.
Poor-jo (or Po-jo)
Diodia teres
Richardia
Richardia brasiliensis
Oldenlandia
Oldenlandia uniflora
Possumhaw Viburnum
Viburnum nudum
Lobelia
Lobelia nuttallii
Common Ragweed
Ambrosia artemisiifolia
Thistle
Cirsium repens
Ironweed
Vernonia angustifolia angustifolia
Elephant's-foot
Elephantopus tomentosus
Elephantopus scadatus
Carphephorus
Carphephorus sp.

Joe-pye-weed
Eupatorium fistulosum
Climbing Hempweed
Mikania scandens
Marsh-Hebeane
Pluchea rosea
White-topped Aster
Aster tortifolius
Goldenrod
Solidago sp.
Heterotheca
Heterotheca graminifolia
Roserweed
Silphium compositum
Begger-ticks
Bidens sp.

FAUNA

Filmy Dome Spider
Proliniphia marginata
Orchard Spider
Leucauge venusta
Bird Grasshopper
Schistocerca sp.
Common Eastern Velvet-ant
Dasyneutilla occidentalis
occidentalis
Cypress Flower Gall (midge)
lonida anthici
Cypress Leaf Gall (midge)
lonida taxodii
Blue Dasher
Pachydiplax longipennis

Black-tipped Damselfly
Calopteryx aequabilis
Crawling Water Beetle
Peltodytes sp.
Predacious Diving Beetle
Hydroporus vittatipennis
Coptotomus interogustus
Whirligig Beetle
Dineutus discolor
Water Scavenger Beetle
Enochrus sp.
Dung Beetle
Phanaeus sp.
June Beetle
Phyllophaga ilicis
Marsh Beetle
Cyphon variabilis
Tick Trefoil Leaf-miner
Pachyschelus laevigatus
Darkling Beetle
Uloa punctulata
Sap-feeding Beetle
Epuraea sp.
Pallodes sp.
Minute Seed Weevil
Perigaster sp.
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Palamedes Swallowtail
Papilio palamedes
Cloudless Sulphur
Phoebis sennae eubule
Sleepy Orange (butterfly)
Eurema nicippe
Pearl Crescent
Phycides tharos

Red Admiral
Vanessa atalanta rubria
Common Buckeye (butterfly)
Junonia coenia
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Monarch (butterfly)
Danaus plexippus
Silver-spotted Skipper
Epargyreus clarus
Common Checkered-skipper
Pyrgus communis
Great Leopard Moth (larva)
Epantheria scribonia
Southern Toad
Bufo terrestris
Green Treefrog
Hyla cinerea
Green Frog; Bronze Frog
Rana clamitans
Eastern Fence Lizard
Sceloporus undulatus
Six-lined Racerunner
Cnemidophorus sexlineatus
Rough Green Snake
Opheodrys aestivus
Pileated Woodpecker
Dryocopus pileatus
American Crow
Corvus brachyrhynchos
Fish Crow
Corvus ossifragus
Carolina Chickadee
Parus carolinensis
White-eyed Vireo
Vireo griseus
Pine Warbler
Dendroica pinus



Dorchester County

Giant Portland Cement Quarry Dorchester County March 26, 1986

The Coastal Plain of South Carolina is underlain with thick deposits of limestone, the result of eons of sea-bed deposits. In this area, the bodies, shells, or teeth of many marine animals became fossils. As this material is mined for the making of limestone and cement products, these fossils are exposed. When arrangements can be made to collect without interfering with the operation of the quarry, it is possible to remove some very interesting specimens. Many of the best have become exhibits in the South Carolina State Museum. These offer a glimpse of the creatures you might have met in an ocean-going voyage 65 million years ago. In addition, the bodies of some land-dwelling animals were washed out to sea, and joined the marine animals in these deposits. *Archaeocete* whales are often the largest animal specimens found, but mastodon, mammoth, camel and horse are also found occasionally. Shark teeth that were shed and became fossilized are an impressive find. SCAN appreciates Giant Portland Cement granting us permission to hunt for these clues to the South Carolina past.

Privately owned. Advanced permission needed to visit this site.

Directions to Giant Portland Cement Quarry:

From the intersection of I-26 and I-95, drive east toward Charleston on I-26. At Exit 177, take SC 453 north toward Holly Hill. At the very first road, turn right (east) onto County Road S 18-50. Drive approximately 0.6 mile and turn left on a dirt road just before a pond. The cement quarry is on the left.

FLORA

Black Willow
Salix nigra
Poor-man's-pepper
Lepidium virginicum
Redbud; Judas-tree
Cercis canadensis
Rattlebox
Oxalaria spectabilis
Kudzu
Pueraria lobata
Red Maple
Acer rubrum
Spiny-leaved Sow-thistle
Sonchus asper
Sea-myrtle; Groundsel-tree
Baccharis halimifolia

FAUNA

Southern Mole Cricket
Scapteriscus acletus
Carolina Anole
Anolis carolinensis
Black Racer
Coluber constrictor

Great Egret
Casmerodius albus
Turkey Vulture
Cathartes aura
Red-shouldered Hawk
Buteo lineatus
Red-tailed Hawk
Buteo jamaicensis
Fish Crow
Corvus ossifragus

FOSSILS

Gastropod
Fusinus abruptus
Sand-dollar
Periarthrus lyelli
Pecten
Chlamys cocoana
Pecten
Chlamys sp.
Billfish (bill fragment)
Cylindracanthus rectus
Sawfish (rostral tooth)
Pristis sp.
Stingray (barb, dental plate)
Myliobatis sp.



Sand Shark (tooth)
Odontaspis hopei
Bull Shark (tooth)
Carcharhinus leucas

Eared White Shark (tooth)
Carcharodon auriculatus
Cow Shark (tooth)
Hexanchus sp.



(Photo by L. Griesler)

Danny Smith and Betty Gilbert study the past.

McAlhany Nature Preserve

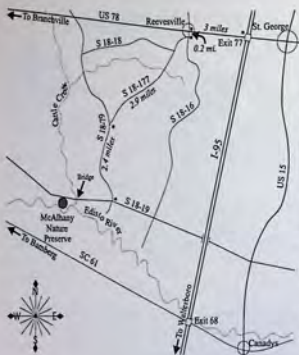
Dorchester County

May 27, 1989

This nature preserve was still being inventoried in 1989. There was a rewarding trail alongside an oxbow lake that yielded many interesting sightings. Dr. Julian Harrison, Professor of Biology at the College of Charleston, acted as guide for the day. He showed us a drift fence with buckets at each end set up to catch insects and small reptiles for study. All the dragonflies stayed just out of reach, so none could be identified with enough certainty to be included on the flora/fauna list.

Owned by the Charleston Natural Historical Society, PO Box 504, Charleston, SC 29402. Advanced permission needed to visit this site. Phone: 843-577-7100.

Directions to McAlhany Nature Preserve: From I-95 between I-26 and Walterboro, take Exit 77, Branchville-St. George, and go west on US 78 to Reevesville, about 3 miles. Turn south (left) onto County Road S 18-16, go 0.2 miles and turn onto the first road on the right, S 18-177. In 2.9 miles, this road will merge with S 18-79; continue south another 2.4 miles. Turn right (west) onto S 18-19, cross the bridge over Cattle Creek, and watch for a locked gate on the left not too far beyond the bridge.



McAlhany Nature Preserve (continued)
May 27, 1989

FLORA

- Lichen
Cladonia sp.
Bracken
Pteridium aquilinum
Ebony Spleenwort
Asplenium platyneuron
Mosquito Fern
Azolla caroliniana
Spruce Pine
Pinus glabra
Common Cat-tail
Typha latifolia
Oat Grass
Danthonia sp.
Nut-rush
Scleria sp.
Giant Duckweed
Sparganium angustifolium
Sagmat
Wolffella floridana
panish-moss
Tillandsia usneoides
mossling; Spiderwort
Tradescantia rosea
ringed Greenbrier
Smilax bono-nia
Glow Star-grass
Hypoxis hirsuta
Glow
Gallium sp.
ax-myrtil; Southern Bay berry
Myrica cerifera
Burch
Senecio sp.

Reich

- Quercus grunajensis*
 Swamp Chestnut Oak
Quercus michauxii
 Water Oak
Quercus nigra
 Running Oak
Quercus punctata
 Laurel Oak
Quercus laurifolia
 Heartleaf
Hamamelis arifolia
 Alligator-weed
Alternanthera philoxeroides
 Spatterdock; Yellow Pond-lily
Najas luteum
 Redbay
Persia borbonica
 Sassafras
Sassafras albidum
 Sweet-gum
Liquidambar styraciflua
 Witch-hazel
Hamamelis virginiana
 Hawthorn
Craetogeomys sp.
 Shadbush
Amelanchier alnifolia
 Tread-sofly
Oniscus asinus
 Sebastian-bush
Sebastiania ligustrina
 Poison-ivy
Rhus radicans

Winged Sumac

- Rhus copallina*
American Holly
Ilex opaca
Red Buckeye
Aesculus pavia
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
St.-Andrew's-cross
Hespericum hypericoides
Prickly-pear
Opuntia compressa
Blackgum
Nyssa sylvatica
Water Tupelo
Nyssa aquatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora
Coastal Honeybell
Leucothea racemosa
Dangleberry
Gaylussacia frondosa
Puckleberry
Vaccinium arboreum
Elliot's Blueberry
Vaccinium elliptici
Horse-sugar; Sweetleaf
Symplocos tinctoria
Wild Olive
Osmorhiza americana
Yellow Jessamine
Gelsemium sempervirens
White Milkweed
Asclepias variegata
Downy False Foxglove
Aureolaria virginica
Cross Vine
Anisostictis capreolata
Rumpet Vint
Campsis radicans
Quaw-root
Conopogon americanus
Hoating Bladderwort
Urticularia inflata
Lurid-berried
Mitchella repens
Small-leaved Viburnum
Viburnum obovatum
American Elderberry
Sambucus canadensis
Elephant's-foot
Elaeagnus carolinianus
Thicket-holly
Pterospora graminifolia

FAUNA

- Crayfish
Cambarus sp.
Carpenter Bee
Xylocopa sp.

Tiger Beetle

- Cicindela unipunctata*
Searcher; Ground Beetle
Carabus vinctus
Pedunculate Ground Beetle
Pasimachus sublaevis
Woodland Ground Beetle
Pterostichus sp.
Colorful Foliage Ground Beetle
Cymindis americana
Crawling Water Beetle
Peltodytes sexmaculatus
Predacious Diving Beetle
Hydroporus carolinus
Hydroporus clypealis
Hydroporus lobatus
Agabates acaductus
Coptotomus interrogatus
Water Scavenger Beetle
Tropisternus mixtus
Tropisternus collaris striolatus
Giant Water Scavenger Beetle
Dibolocelus ovalis
Passalus; Bess-beetle
Popilius disjunctus
June Beetle
Phyllophaga sp.
Eyed Elater
Alaus oculatus
Soft-winged Flower Beetle
Ablechrus sp.
Sap-feeding Beetle
Carpophilus floralis
Flea Beetle
Dibolia sp.
Pearl Crescent
Phyciodes tharos
Mourning Cloak
Nymphalis antiopa
American Lady (butterfly)
Vanessa virginiensis
Common Buckeye (butterfly)
Junonia coenia
Green Frog; Bronze Frog
Rana clamitans
Yellow-bellied Slider
Chrysemys scripta
Ground Skink
Scincella lateralis
Six-lined Racerunner
Cnemidophorus tectifera
Corn Snake
Elaphe guttata
Acadian Flycatcher
Empidonax virens
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Wren
Thryothorus ludovicianus
Red-Eyed Vireo
Vireo olivaceus
Prothonotary Warbler
Protonotaria citrea
Pine Warbler
Dendroica pinus



Fairfield County

Broad River Waterfowl Area

Fairfield County

March 26, 1994

This area along the Broad River is managed for waterfowl, with shallow ponds and open grassy fields, including some planted in grains. This attracts not only waterfowl of the edible kind, but song birds, reptiles and amphibians, insects and other wildlife. It makes a very interesting place for a naturalist during nonhunting periods of the year. Much of the site is floodplain, but there is the first terrace away from the river as well. This leads to many types of habitats providing a wealth of species to be seen.

Directions to Broad River Waterfowl Area: From I-26 near Newberry, take exit 74 in Newberry County and head east on SC 34. In 12 miles, SC 34 crosses the Broad River; immediately after crossing the bridge, turn right onto Strother Road. This is a gravel road, and there is a small sign for the Broad River Waterfowl Area at the junction. At 0.8 mile, you will ford a small stream. At 1.2 miles from SC 34, turn right onto the main entrance road for the waterfowl area. If the gate is open, drive approximately 0.5 mile and park near the equipment sheds on the right; if the gate is closed, park by the gate and walk.



FLORA

Lichen

Collema furfuraceum
Collema subflaccidum
Leptogium cyanescens
Graphis scripta
Bacidia schweinitzii
Lecidea carneosalbens
Lecidea sp.
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia didyma
Cladonia polycarpoides
Cladonia peziziformis
Punctothelia papillaria
Pertusaria leucostoma
Pertusaria pustulata
Pertusaria texana
Maronea constans
Lecanora allophana argentata
Lecanora cupressi
Lecanora pallida
Lecanora varia

Lecanora hybocarpa
Ochrolechia africana
Candelaria concolor
Hypotrachyna livida
Parmelina aurulenta
Parmotrema dilatatum
Parmotrema hypotrachyna
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema robustum
Xanthoparmelia conspersa
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Imshaugia placodioides
Rimelia reticulata
Rimelia cetrata
Rimelia cetrata f. *nonreticulata*
Ramalina americana
Usnea strigosa
Buellia punctata
Buellia curatellae
Physcia alpicola
Physcia millegrana
Heterodermia obscurata

Pyxine sorediata
Trypetidium virens
Meadow Spikemoss
Selaginella apoda
Loblolly Pine
Pinus taeda
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Cane; Switch Cane
Arundinaria gigantea
Wool-grass
Scirpus cyperinus
Woodrush
Luzula sp.
Sawbrier; Greenbrier
Smilax glauca
Black Willow
Salix nigra
Eastern Cottonwood
Populus deltoides
Tag Alder
Alnus serrulata

River Birch

Betula nigra
Hop-hornbeam
Ostrya virginiana
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
Post Oak
Quercus stellata
Cherrybark Oak
Quercus falcata pagodaeformis
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Winged Elm
Ulmus alata
Sugarberry; Hackberry
Celtis laevigata
Mouse-ear Chickweed
Cerastium glomeratum
Leather-flower
Clematis crispa

Broad River Waterfowl Area (continued) March 26, 1994

Windflower
Thalictrum thalictroides
Small-flowered Crowfoot
Ranunculus abortivus
Mouse-ear Cress
Arabisopsis thaliana
Bitter Cress
Cardamine pennsylvanica
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Wild Strawberry
Fragaria virginiana
Five-fingers
Potentilla canadensis
Rose
Rosa sp.
Hawthorn
Crataegus flabellata
Chickasaw Plum
Prunus angustifolia
Black Cherry; Wild Cherry
Prunus serotina
Redbud; Judas-tree
Cercis canadensis
Honey Locust
Gleditsia triacanthos
Vetch
Vicia sp.
Wood-sorrel
Oxalis sp.
American Holly
Ilex opaca
Holly
Ilex ambigua
Boxelder
Acer negundo
Red Maple
Acer rubrum
Painted Buckeye
Aesculus sylvatica
St.-Andrew's-cross
Hypericum hypericoides
Common Blue Violet
Viola papilionacea
Flowering Dogwood
Cornus florida
Azalea
Rhododendron sp.
Elliot's Blueberry
Vaccinium ellipticum
Ash
Fraxinus sp.
Yellow Jessamine
Gelsemium sempervirens
Forget-me-not
Myosotis sylvatica
Beautyberry
Callicarpa americana
Small Bluet
Houstonia missillia

American Elderberry
Sambucus canadensis
Purple Jelly-drops
Atocoryne sarcoides
Cedar Apple Rust
Gymnosporangium juniperivirginianae

FAUNA

Rabid Wolf Spider
Lycosa rubida
Chinese Mantid (egg)
Tenodera aridifolia sinensis
Plant-feeding Stink Bug
Euschistus servus servus
Red Imported Fire Ant
Solenopsis invicta
Pipe-organ Wasp
Trypoxylon politum
Goldenrod Ball Gail (fly)
Eurosta solidaginis
Common Green Darner
Anax junius
Baskettail Dragonfly
Epiheca sp.
Tiger Beetle
Cicindela sp.
Searcher; Ground Beetle
Carabus vinchus
Seed-eating Ground Beetle
Amara sp.
False Bombardier Beetle
Galeritula bicolor
Feather-winged Beetle
Noctuidium sp.
Click Beetle
Lacon marmoreus
Limoniis sp.
Soldier Beetle
Cantharis bilineatus
Cantharis bilineatus
Darkling Beetle
Ulmus punctulatus
Broad-bodied Leaf Beetle
Prasocuris vittata
Zebra Swallowtail
Eurytides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Falcate Orange-tip
Anthocharis midia
Spring Azure (butterfly)
Celastrina ladon
Pearl Crescent
Phyciodes tharus
Juvenal's Duskywing
Erynnis juvenalis
Evergreen Bagworm Moth
Thyridopteryx ephemeraeformis
Spring Peeper
Hyla crucifer

Upland Chorus Frog (call)
Pseudacris triseriata
Painted Turtle
Chrysemys picta
Great Blue Heron
Ardea herodias
Blue-winged Teal
Anas discors
Wood Duck
Aix sponsa
Hooded Merganser
Lophodytes cucullatus
Sora
Porzana carolina
Killdeer
Charadrius vociferus
Lesser Yellowlegs
Tringa flavipes
Wilson's Phalarope
Phalaropus tricolor
Common Snipe
Gallinago gallinago
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
Red-tailed Hawk
Buteo jamaicensis
Mourning Dove
Zenaidura macroura
Belted Kingfisher
Ceryle alcyon
Red-bellied Woodpecker
Melanerpes carolinus
Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
Tree Swallow
Tachycineta bicolor
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis

Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula
Blue-gray Gnatcatcher
Polioptila caerulea
White-eyed Vireo
Vireo griseus
Northern Parula
Parula americana
Black-and-white Warbler
Mniotilta varia
Yellow-rumped Warbler
Dendroica coronata
Yellow-throated Warbler
Dendroica dominica
Pine Warbler
Dendroica pinus
Yellowthroat
Geothlypis trichas
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Chipping Sparrow
Spizella passerina
White-throated Sparrow
Zonotrichia albicollis
White-crowned Sparrow
Zonotrichia leucophrys
Swamp Sparrow
Melospiza georgiana
Red-winged Blackbird
Agelaius phoeniceus
Brown-headed Cowbird
Molothrus ater
Common Grackle
Quiscalus quiscula
American Goldfinch
Carduelis tristis
Muskkrat
Ondatra zibethicus
White-tailed Deer (tracks)
Odocoileus virginianus



Sam Outen, Mary Boni, Evelyn Dabbs, Mina Winn, Mary Garland Douglass, and Charlie Williams enjoy a day of fellowship.

(Photo by V. Winn)



Florence County

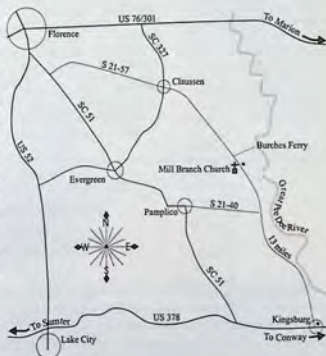
Burches Ferry

Florence County

November 22, 1986

Burches Ferry, a high bank exposed by the eroding action of the Greater Pee Dee River, is named for the ferry that used to cross the river from this location. It yields fossils of the Upper Cretaceous age that were deposited in a shallow sea that covered a portion of South Carolina during the later part of the dinosaur age. Although no dinosaur fossils have been found, it is possible to find the internal skeletons of small squid-like animals called belemnites and teeth of Cretaceous sharks. An oyster found here, *Exogyra costata*, serves as an index fossil and identifies the material as Upper Cretaceous in age. A fossil vertebra found at this site by Rudy Mancke several years earlier than our visit turned out to be from a marine reptile known as a Plesiosaur. This animal swam while dinosaurs were living on land nearby. Collecting is done along a small ledge over the edge of the water. It is not for the faint of heart, and not accessible during high water.

Directions to Burches Ferry: From Sumter, take US 378 east through Turbeville and Lake City to Kingsburg, about 48 miles. In Kingsburg, turn left (north) on S 21-57 toward Claussen, and go 13 miles to Mill Branch Church on the left. Burches Ferry is reached by a dirt road a little north of the church on the right.



FLORA

Christmas Fern
Polystichum acrostichoides
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Short-leaf Pine
Pinus echinata
Bald-cypress
Taxodium distichum
River Oaks
Uniola latifolia
Spanish-moss
Tillandsia usneoides
Water Hickory
Carya aquatica
Tag Alder
Alnus serrulata
River Birch
Betula nigra

White Oak
Quercus alba
Overcup Oak
Quercus lyrata
Spanish Oak
Quercus falcata
Cherrybark Oak
Quercus falcata pagodaefolia
Water Oak
Quercus nigra
Sugarberry; Hackberry
Celtis laevigata
Sassafras
Sassafras albidum
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Hawthorn
Crataegus sp.
Black Cherry; Wild Cherry
Prunus serotina

Water Locust
Gleditsia aquatica
Possumhaw Holly
Ilex decidua
Pepper-vine
Ampelopsis arborea
Flowering Dogwood
Cornus florida
Sparkleberry
Vaccinium arboreum
Horse-sugar; Sweetleaf
Symplocos tinctoria
Yellow Jessamine
Gelsemium sempervirens
Beautyberry
Callicarpa americana
Barometer Earthstar
Astrucium hygrometricum



(Photo by B. Gilbert)
Lynn Greenlee busily hunts for fossils.

Burches Ferry (continued)
November 22, 1986

FAUNA

Sleepy Orange (butterfly)
Eurema nicippe
Question Mark (butterfly)
Polygonia interrogationis
Common Buckeye (butterfly)
Junonia coenia
Eastern Tent Caterpillar
Malacosoma americanum
Great Leopard Moth (larva)
Epantheria scribonia
Carolina Anole
Anolis carolinensis
Turkey Vulture
Cathartes aura
Red-tailed Hawk
Buteo jamaicensis

Belted Kingfisher
Ceryle alcyon
White-tailed Deer
Odocoileus virginianus

FOSSILS

Belemnite
Belemnite americana
Marine Snail
Turritella sp.
Jingle Shell
Anomia sp.
Exogyra Snail
Exogyra costata
Fish Tooth
Enchodus ferox
Soft-shelled Turtle (fragment)
Trionyx sp.



Sleepy orange, *Eurema nicippe*.

(Photo by L. Smith)

Lynches River State Park
Florence County
November 19, 1994

Situated along the banks of the Lynches River, this state park has the classic blackwater riverine habitat, with the swamps and bluffs, plus some very fine examples of sandhills. Fall was at its peak this late in November, creating beautiful fall colors on the trees, and a lot of interesting insects attracting our attention. The diversity of species here does not include anything particularly rare, but offers a good range of flora and fauna nonetheless.

Directions to Lynches River State Park: From Florence, take US 52 south. Go through Effingham, crossing US 301 and the Lynches River (about 17-18 miles). Make the first right turn after the river onto County Road S 21-147 at the sign to Lynches River State Park. The entrance to the park is on the right.



FLORA

Lichen

Collema furfuraceum
Leptogium cyanescens
Graphis scripta
Graphis atrorubens
Graphis elegans
Glyphis caticricosa
Phaeographis dendritica
Bacidia polychroa
Bacidia schweinitzii
Bacidia incompta
Leptogium austroamericanum
Brigantia leucoanthera
Lecidea russula
Letroitella vulpinum
Cladonia evansii
Cladonia chlorophaea
Cladonia coniocraea

Cladonia cristatella
Cladonia didyma
Cladonia leporina
Cladonia macilenta
Cladonia polycarpoides
Cladonia peziziformis
Cladonia rappii
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subpertusa
Pertusaria texana
Pertusaria multipunctoides
Maronea constans
Haematomma elatinum
Lecanora eupressi
Lecanora pulicaris
Ochrolechia africana
Phlyctis sp.
Bulbothrix confederata
Bulbothrix goebellii

Hypotrachyna livida
Parmelia aurulenta
Parmelia minarum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema rampoddense
Parmotrema tinctorum
Parmotrema ultralucens
Canoparmelia caroliniana
Punctelia rudecta
Ramalina reticulata
Rimelia cetrata
Ramalina americana
Usnea rubicunda
Usnea strigosa
Anaptychia palmata
Buellia curatellae
Physcia americana
Heterodermia albicans
Heterodermia obscurata
Pyxine sorediata
Phaeophyscia imbricata
Anthracotheicum pyrenuloides
Anthracotheicum caroliniana
Arthonia quintaria
Tryptelium mastoideum
Tryptelium virens
Tryptelium scorites
Porina chlorotica
Porina nucula
Haircap Moss
Polytrichum commune
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Bald-cypress
Taxodium distichum
Pond-cypress
Taxodium ascendens
Sandbar; Sandspurs
Cenchrus sp.
Jack-in-the-pulpit
Arisaema triphyllum
Spanish-moss
Tillandsia usneoides
Greenbrier; Bullbrier
Smilax rotundifolia
Fringed Greenbrier
Smilax bona-nox
Sawbrier; Greenbrier
Smilax glauca
Sweet-scented Smilax
Smilax smallii

Bear-grass
Yucca filamentosa
Spoonleaf Yucca
Yucca filamentoidea filamentosa
Crane-fly Orchid
Tipularia discolor
Black Willow
Salix nigra
Wax-myrtle; Southern Bayberry
Myrica cerifera
Wax-myrtle
Myrica cerifera cerifera
Mockernut Hickory
Carya tomentosa
Hickory
Carya sp.
River Birch
Betula nigra
American Hornbeam; Ironwood
Carpinus caroliniana
Scrubby Post Oak
Quercus margaretta
Overcup Oak
Quercus lyrata
Swamp Chestnut Oak
Quercus michauxii
Turkey Oak
Quercus laevis
Scarlet Oak
Quercus coccinea
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
American Elm
Ulmus americana
Sugarberry; Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
Mistletoe
Phoradendron serotinum
Jointweed
Polygonella polygama
Wire-plant
Stipulicida setacea
Redbay
Persia borbonica
Sassafras
Sassafras albidum
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana
American Sycamore
Platanus occidentalis
Five-fingers
Potenilla canadensis
Blackberry; Brambles
Rubus sp.
Red Chokeberry
Sorbus arbutifolia

Swamp Haw
Crataegus viridis
Parsley-leaved Hawthorn
Crataegus marshallii
Hawthorn
Crataegus sp.
Wild Plum
Prunus americana
American Wisteria
Wisteria frutescens
Button-rosy
Polygala curtisii
Poison-ivy
Rhus radicans
False Poison Sumac
Rhus micauxii
Winged Sumac
Rhus copallina
Titi
Cyrilla racemiflora
American Holly
Ilex opaca
Possumhaw Holly
Ilex decidua
Inkberry
Ilex glabra
Hearts-a-burstin'-with-love
Eonymus americanus
Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
Fox Grape
Vitis labrusca
St.-Andrew's-cross
Hypericum hypericoides
Prickly-pear
Opuntia compressa
Pennywort
Hydrocotyle sp.
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Flowering Dogwood
Cornus florida
Swamp Dogwood; Stiff Cornel
Cornus stricta
Sweet Pepperbush
Clethra alnifolia
Spotted Wintergreen
Chimaphila maculata
Azalea
Rhododendron sp.
Fetterbush
Lyonia lucida
Sparkleberry
Vaccinium arboreum
Elliott's Blueberry
Vaccinium elliotii
Blueberry
Vaccinium sp.
Horse-sugar; Sweetleaf
Symplocos tinctoria
Fringe-tree
Chionanthus virginicus

Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Gentian
Gentiana sp.
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Partridge-berry
Mitchella repens
Japanese Honeysuckle
Lonicera japonica
Coral Honeysuckle
Lonicera sempervirens
Small-leaf Viburnum
Viburnum obovatum
Arrowwood
Viburnum dentatum
Viburnum dentatum lucidum
Viburnum
Viburnum sp.
American Elderberry
Sambucus canadensis
Ironweed
Vernonia sp.
Elephant's-foot
Elephantopus sp.
Frost Aster
Aster pilosus
Goldenrod
Solidago sp.
Heterotheca
Heterotheca graminifolia
Heterotheca mariana
Green-headed Jelly-club
Leontea viscosa
Black-knot
Apiosporina moribosa
Bearded Tooth
Hericium erinaceus
Rooting Polypore
Polyporus radicans
Barometer Earthstar
Astraeus hygrometricus
FAUNA
American Bird Grasshopper
Schistocerca americana
Thread-legged Bug
Zelus exanguis
Trash-bug
Hemerobius Family
Florida Harvester Ant
Pogonomyrmex badius
Yellowjacket
Vespa sp.
Mosquito
Psorophora ferox
Fall Woodlands Mosquito
Aedes infirmatus
Predacious Diving Beetle
Hydroporus vittatipennis
Cross-toothed Rove Beetle
Oxytelus sp.

Lynch River State Park (continued) November 19, 1994

Crab-like Rove Beetles

Lendithon sp.

Hickory Girdler Beetle

Oncideres cingulata

Clouded Sulphur

Colias philodice

Orange Sulphur

Colias eurytheme

Cloudless Sulphur

Phoebastria sennae eubule

Sleepy Orange (butterfly)

Eurema nicippe

Common Buckeye (butterfly)

Junonia coenia

Geometer Moth

Heliomata sp.

Carolina Anole

Anolis carolinensis

Eastern Fence Lizard

Sceloporus undulatus

Rat Snake

Elaphe obsoleta

Wood Duck

Aix sponsa

Red-shouldered Hawk

Buteo lineatus

Belted Kingfisher

Ceryle alcyon

Red-bellied Woodpecker

Melanerpes carolinus

Northern Flicker

Colaptes auratus

Downy Woodpecker

Picoides pubescens

Pileated Woodpecker

Dryocopus pileatus

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Carolina Chickadee

Parus carolinensis

Brown-headed Nuthatch

Sitta pusilla

Eastern Bluebird

Sialia sialis

American Robin

Turdus migratorius

Northern Mockingbird

Mimus polyglottos

Cedar Waxwing

Bombayella cedrorum

Pine Warbler

Dendroica pinus

Northern Cardinal

Cardinalis cardinalis

Rufous-sided Towhee

Pipilo erythrophthalmus

Chipping Sparrow

Spizella passerina

Dark-eyed Junco

Junco hyemalis

Gray Squirrel

Sciurus carolinensis

White-tailed Deer (tracks)

Odocoileus virginianus

Georgetown County

Huntington Beach State Park

and Brookgreen Gardens

Georgetown County

September 27, 1986, and October 24, 1992

Huntington Beach State Park offers easy access to all the major ocean edge habitats. The saltwater areas attract a vast diversity of birds, and a freshwater pond only adds to the list of species to see. The marsh is accessible from a long boardwalk, or from the dike between it and the freshwater pond. There are areas of maritime forest, although better examples are found across the highway in Brookgreen Gardens. In 1992, SCAN visited both, and the list reflects that.

Directions to Huntington Beach State Park: From Georgetown, take US 17 north toward Myrtle Beach. Bypass the communities of Pawleys Island, Litchfield Beach, and North Litchfield Beach. The entrance to Huntington Beach State Park is on the right (east) side and marked with signs, about 17 miles from Georgetown; the entrance to Brookgreen Gardens is directly across the highway on the left side with the familiar, imposing statue of two fighting horses.



FLORA

Lichen

Leptogium cyanescens
Graphis scripta
Graphis nitida
Graphis grammatis
Sarcographa sp.
Bacidia atrogrisea
Bacidia sp.
Leptogium austroamericanum
Cladonia evansii
Cladonia ochrochlorata
Cladonia pityrea
Cladonia sp.
Lecanora cupressi
Lecanora pallida
Lecanora pallida cancriformis
Lecanora varia
Lecanora sp.
Ochrolechia africana
Julella sp.
Bulbothrix goebellii
Parmelina aurulenta
Parmotrema hypoleucinum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema rigidum
Parmotrema robustum
Parmotrema tinctorum
Punctelia rudecta
Rimelia subisidiosa
Ramalina americana
Usnea strigosa
Buellia caloosensis
Buellia amphidexia
Dirinaria aspera
Dirinaria confusa
Dirinaria picta
Physcia americana
Physcia crista
Physcia millegrana
Heterodermia obscurata
Pyxine caesiopruiosa f. aurea
Pyxine subcinerea
Pyrenula cruenta
Osmunda cinnamomea

Bracken
Pteridium aquilinum
Mosquito Fern
Azolla caroliniana
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Sea Oats
Uniola paniculata
Cord Grass
Spartina patens
Smooth Cord Grass
Spartina alterniflora

Dune Sandbur
Cenchrus tribuloides
Seaside Panic Grass
Panicum amarum
Little Bluestem
Andropogon scoparius
Broomsedge
Andropogon virginicus
White-bracted Sedge
Dichromena colorata
Cabbage Palmetto
Sabal palmetto
Duckweed
Lemna sp.
Bogmat
Wolffia floridana
Spanish-moss
Tillandsia usneoides
Dayflower
Commelina virginica
Fringed Greenbrier
Smilax bona-nox
Mound-lily Yucca
Yucca gloriosa
Nodding Ladies'-tresses
Spiranthes cernua
Swamp Willow
Salix caroliniana
Wax-myrtle; Southern Bayberry
Myrica cerifera
Hickory
Carya sp.
Coastal Chinquapin
Castanea pumila ashei
Live Oak
Quercus virginiana
Turkey Oak
Quercus laevis
Cherrybark Oak
Quercus falcata pagodaefolia
Water Oak
Quercus nigra
Laurel Oak
Quercus laurifolia
Red Mulberry
Morus rubra
Mexican-tea
Chenopodium ambrosioides
Seabeach Orach
Atriplex arenaria
Perennial Glasswort
Salicornia virginica
Sea-blight
Suaeda linearis
Russian-thistle
Salsola kali
Beach Amaranth
Amaranthus pumilus
Sea-purslane
Sesuvium portulacastrum
Paronychia
Paronychia riparia
Dwarf PawPaw
Asimina parviflora
Redbay
Persea borbonia

Sassafras
Sassafras albidum
Sea-rocket
Cokile harperi
Sweet-gum
Liquidambar styraciflua
Dewberry
Rubus trivialis
Redbud; Judas-tree
Cercis canadensis
Lupine
Lupinus sp.
Zornia
Zornia bracteata
Bush-clover
Lespedeza sp.
Chinese Wisteria
Wisteria sinensis
Coral-bean
Erythrina herbacea
Dollar-weed
Rhynchosia reniformis
Beach-pea; Wild Bean
Strophostyles helvola
Hercules'-club
Zanthoxylum clava-herculis
Silverleaf Croton
Croton punctatus
Spurge
Euphorbia ammannioides
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Myrtle-leaved Holly
Ilex cassine myrtifolia
Yaupon
Ilex vomitoria
Red Maple
Acer rubrum
Red Buckeye
Aesculus pavia
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
Pepper-vine
Ampelopsis arborea
Hypericum
Hypericum sp.
Passionflower; Maypops
Passiflora incarnata
Cutleaf Evening-primrose
Oenothera laciniosa
Gaura
Gaura angustifolia
Dune Pennywort
Hydrocotyle bonariensis
Pennywort
Hydrocotyle sp.
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica

Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora
Fetterbush
Lyonia lucida
Sparkleberry
Vaccinium arboreum
Sea-lavender
Limonium sp.
Persimmon
Diospyros virginiana
Common Marsh-pink
Sabatia stellaris
Dodder
Cuscuta sp.
Ground-ivy; Ponyfoot
Dichondra carolinensis
Fiddle-leaf Morning-glory
Ipomoea stolonifera
Brazilian Vervain
Verbena braziliensis
Fog-fruit
Lippia nodiflora
Beautyberry
Callicarpa americana
Blue-curbs
Trichostema dichotomum
Bitter Mint; Hyssop
Hypoxis alata
Nightshade
Solanum americanum
Smooth Water-hyssop
Bacopa monnieri
Water-hyssop
Bacopa sp.
Gerardia
Agalinis sp.
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Partridge-berry
Mitchella repens
Bedstraw
Galium sp.
Beach-elder
Iva imbricata
Common Ragweed
Ambrosia artemisiifolia
Elephant's-foot
Elephantopus tomentosus
Dog-fennel
Eupatorium capillifolium
Eupatorium compositifolium
Groundsel-tree
Baccharis glomeratiflora
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Horseweed; Mare's-tail
Erigeron canadensis canadensis
Aster
Aster undulatus

Huntington Beach State Park
and Brookgreen Gardens (continued)
September 27, 1986, and October 24, 1992

Salt-marsh Aster

Aster tenuifolius

Frost Aster

Aster pilosus

Salt-marsh Goldenrod

Solidago sempervirens

Heterotheca

*Heterotheca graminifolia**Heterotheca nervosa*

Camphorweed

Heterotheca subaustriaris

Sea Ox-eye

Borreria frutescens

Silvery-violet Cort

Cornarius albobaccatus

Puffball

Lycoperdon sp.

Tapioca Slime

Brefeldia maxima

FAUNA

Sea-whip

Lepidogorgia virgulata

Sea-pork (tunicate)

Aplidium constellatum

Marsh Periwinkle; Mud Snail

Littorina irrorata

Common Slipper (snail)

Crepidula fornicata

Eastern Mud Snail

Littorina obsoleta

Knobbed Whelk

Buccinum carica

Lettered Olive (snail)

Olivella sayana

White-lipped Forest Snail

Mesodon thymoides

Squid

Loligo sp.

Turkey-wing (shell)

Arca zebra

Eastern Oyster

Crassostrea virginica

Cross-hatched Lucine

Divaricella quadrilobata

Atlantic Razor Clam

Saxidomus nutalli

Florida Coquina

Donax variabilis

False Angel-wing (shell)

Petricola pholadiformis

Common Blue Crab

Callinectes sapidus

Blue Crab

Callinectes sp.

Mud Fiddler Crab

Uca pugnax

Sand Fiddler Crab

Uca pugnator

Fiddler Crab

Uca sp.

Wolf Spider

Lycosa sp.

Lubber Grasshopper

Brachystola magna

Field Cricket

Gryllus sp.

Antlion; Doodlebug

Myrmecoleon immaculatus

Fire Ant

Solenopsis sp.

Bumblebee

Bombus sp.

Honey Bee

Apis mellifera

Golden Salt-marsh Mosquito

Aedes sollicitans

Common Green Darner

Anax junius

Eastern Pondhawk

Erythemis simplicicollis

Blue Dasher

Pachydiplax longipennis

Glider

Tramea sp.

Common Tumblebug

Cathion larvis

Rhinoceros Beetle

Strategus antaeus

Lady Beetle

Coccinella sp.

Giant Swallowtail

Papilio crephontes

Eastern Tiger Swallowtail

Papilio glaucus

Palamedes Swallowtail

Papilio palamedes

Clouded Sulphur

Colias philodice

Cloudless Sulphur

Phoebastria senae rubule

Little Yellow (butterfly)

Eurema lisa

Gray Hairstreak

Strymon melinus

Gulf Fritillary

Agraulis vanillae

Pearl Crescent

Phyciodes tharos

Common Buckeye (butterfly)

Junonia coenia

Viceroy; Mimic

Limnitis archippus

Monarch (butterfly)

Danaus plexippus

Long-tailed Skipper

Urbanus proteus

Largemouth Bass

Micropterus salmoides

Sand Tiger Shark

Odontaspis ferox

Sting Ray

Dasyatis sp.

Sea-horse

Hippocampus reidi

Cope's Gray Treefrog

Hyla chrysoscelis

Green Treefrog

Hyla cinerea

American Alligator

Alligator mississippiensis

Yellow-bellied Slider

Chrysemys scripta

Carolina Anole

Anolis carolinensis

Six-lined Racerunner

Cnemidophorus sexlineatus

Eastern Hognose Snake

Heterodon platyrhinos

Banded Water Snake

Nerodia fasciata

Pied-billed Grebe

Podilymbus podiceps

Brown Pelican

Pelecanus occidentalis

Anhinga; Snakebird

Anhinga anhinga

Double-crested Cormorant

Phalacrocorax auritus

Tricolored Heron

Egretta tricolor

Little Blue Heron

Egretta caerulea

Snowy Egret

Egretta thula

Great Egret

Ardea herodias

Great Blue Heron

Ardea herodias

White Ibis

Eudocimus albus

American Wigeon

Anas americana

Ring-necked Duck

Aythya collaris

Clapper Rail

Rallus longirostris

Virginia Rail

Rallus limicola

Common Moorhen

Gallinula chloropus

American Coot

Fulica americana

American Oystercatcher

Haematopus palliatus

Piping Plover

Charadrius melodus

Semipalmated Plover

Charadrius semipalmatus

Killdeer

Charadrius vociferus

Black-bellied Plover

Pluvialis aquatilis

Willet

Catoptrophorus semipalmatus

Red Knot

Calidris canutus

Dunlin

Calidris alpina

Sanderling

Calidris alba

Ruddy Turnstone

Arenaria interpres

Laughing Gull

Larus atricilla

Ring-billed Gull

Larus delawarensis

Herring Gull

Larus argentatus

Great Black-backed Gull

Larus marinus

Forster's Tern

Sterna forsteri

Caspiian Tern

Sterna caspia

Turkey Vulture

Cathartes aura

Black Vulture

Coragyps atratus

Bald Eagle

Haliaeetus leucocephalus

Red-shouldered Hawk

Buteo lineatus

Osprey

Pandion haliaetus

American Kestrel

Falco sparverius

Mourning Dove

Zenaidura macroura

Common Ground-dove

Columbina passerina

Whip-poor-will

Caprimulgus vociferus

Belted Kingfisher

Ceryle alcyon

Red-bellied Woodpecker

Melanerpes carolinus

Red-headed Woodpecker

Melanerpes erythrocephalus

Northern Flicker

Colaptes auratus

Downy Woodpecker

Picoides pubescens

Pileated Woodpecker

Dryocopus pileatus

Great Crested Flycatcher

Myiarchus cinerascens

Eastern Phoebe

Sayornis phoebe

Tree Swallow

Iridoprocne bicolor

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Fish Crow

Corvus ossifragus

Carolina Chickadee

Parus carolinensis

House Wren

Troglodytes aedon

Carolina Wren (sign)

Thryothorus ludovicianus

Golden-crowned Kinglet
Regulus satrapa
Loggerhead Shrike
Lanius ludovicianus
Gray Catbird
Dumetella carolinensis
Northern Mockingbird
Mimus polyglottos
European Starling
Sturnus vulgaris

Yellow-rumped Warbler
Dendroica coronata
Worm-eating Warbler
Helminthophila vermivorus
American Redstart
Setophaga ruticilla
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus

Savannah Sparrow
Passerculus sandwichensis
Song Sparrow
Melospiza melodia
Red-winged Blackbird
Agelaius phoeniceus
Rusty Blackbird
Euphagus carolinus
Common Grackle
Quiscalus quiscula

Boat-tailed Grackle
Quiscalus major
Marsh Rabbit
Sylvilagus palustris
Eastern Fox Squirrel
Sciurus niger
Gray Fox (tracks, sign)
Urocyon cinereoargenteus
Bottle-nosed Dolphin
Tursiops truncatus



Greenville County

Bunched Arrowhead Heritage Preserve

Greenville County

April 23, 1995

Bunched arrowhead, a federally endangered species, is a plant of wet seepage areas of Buncombe and Henderson counties in North Carolina and this site in South Carolina. Here it grows profusely in a very small seepage area. The emerged leaves are spatulate, about twelve inches long; white flowers are borne on a stem that rises out of the water. As the list shows, many other plants of wet soils are growing on this same site. The site is small, only 178 acres, designed to protect this small specialized habitat.

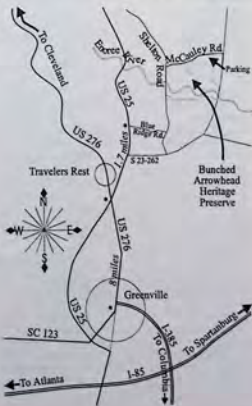
Directions to Bunched Arrowhead Heritage Preserve: From Greenville, take US 276 north for 8 miles; fork right onto US 25 just before Travelers Rest and continue heading north. Drive about 1.7 miles, turn right onto Blue Ridge Road, and go to the end of the road; turn left (north) onto Shelton Road. At the next intersection in about 0.7 miles, turn right onto McCauley Road. Drive a short distance to the paved parking area located on the right.

FLORA

Lichen

Lecidea mutabilis
Leptogium cyanescens
Bacidia schweinitzii
Cladonia subtenens
Cladonia coniocraea
Cladonia didyma
Cladonia parasilicifera
Cladonia peziziformis
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria macounii
Maronea constans
Haematomma puniceum
Lecanora varia
Lecanora allophana
Lecanora sp. #2 Brodia
Lecanora caesiobellula f. prolifera
Ochrolechia africana
Tephromela atra
Candelaria concolor
Hypotrachyna livida

Hypotrachyna pustulifera
Parmelia minarum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema ultralucens
Flavoparmelia caperata
Canoparmelia caroliniana
Kimelia reticulata
Kimelia subisidiosa
Tuckermannopsis ciliaris
Tuckermannopsis viridis
Ramalina americana
Usnea strigosa
Buellia curatellae
Dirinaria confusa
Physcia alpicola
Physcia americana
Physcia millegrana
Phaeophyscia ciliata
Phaeophyscia rubrapulchra
Physcia detersa
Physciella cloantha
Caloplaca flavorubescens
Trypetellum virens



Bunched Arrowhead Heritage Preserve (continued)
April 23, 1995

Haircap Moss
Polytrichum sp.
Running-pine
Lycopodium flabelliforme
Southern Lady Fern
Adiantum asplenoides
Netted Chain Fern
Woodwardia areolata
Loblolly Pine
Pinus taeda
Eastern Red-cedar
Juniperus virginiana
Bunched Arrowhead
Sagittaria fasciculata
Microstegium (grass)
Microstegium vimineum
Jack-in-the-pulpit
Arisaema triphyllum
Greenbrier; Catbrier
Smilax sp.
Solomon's-seal
Polygonatum biflorum
Wild Onion
Allium canadense
Southern Blue Flag
Iris virginica
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Tag Alder
Alnus serrulata
White Oak
Quercus alba
Spanish Oak
Quercus falcata
Willow Oak
Quercus phellos
Paper Mulberry
Broussonetia papyrifera
Sheep-sorrel; Sour-grass
Rumex acetosella
Pokeweed; Pokeberry
Physalis americana
Yellowroot
Xanthoxylum simplicifolium
Tulip-poplar
Liriodendron tulipifera
Sassafras
Sassafras albidum
Wild Radish
Raphanus raphanistrum
Virginia-willow
Ita virginica
Climbing-hydrangea
Decumaria barbara
Sweet-gum
Liquidambar styraciflua
Five-fingers
Potentilla canadensis
Five-fingers; Cinquefoil
Potentilla recta
Blackberry; Brambles
Rubus sp.
Multiflora Rose
Rosa multiflora
Swamp Rose
Rosa palustris
Hawthorn
Crataegus sp.
Wild Plum
Prunus americana
Black Cherry; Wild Cherry
Prunus serotina
Honey Locust
Gleditsia triacanthos
Low Hop Clover
Trifolium dubium
Begger-lice
Desmodium sp.
Bicolor; Bush-clover
Lespedeza bicolor
Vetch
Vicia sp.
Kudzu
Pueraria lobata
Cranesbill
Geranium carolinianum
Poison Sumac
Rhus vernix
Poison-ivy
Rhus radicans
Staghorn Sumac
Rhus typhina
American Holly
Ilex opaca
Hearts-a-burstin'-with-Jove
Eurostymus americanus
Boxelder
Acer negundo
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Hypericum
Hypericum sp.
Primrose-leaved Violet
Viola primulifolia
Passionflower; Maypops
Passiflora incarnata
Evening-primrose
Oenothera sp.
Queen Anne's-lace; Wild Carrot
Daucus carota
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Deerberry; Squaw-huckleberry
Vaccinium stanineum

Blueberry
Vaccinium sp.
Ash
Fraxinus sp.
Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Lyre-leaved Sage
Salvia lyrata
Horse-nettle
Solanum carolinense
Toadflax
Linaria canadensis
Cross Vine
Anisostichus capreolata
Partridge-berry
Mitchella repens
Japanese Honeysuckle
Lonicera japonica
Arrowwood
Viburnum dentatum lucidum
Wild Lettuce
Lactuca sp.
Hawkweed
Hieracium sp.
Common Dandelion
Taraxacum officinale
Small's Ragwort
Senecio smallii
Batchelor's-buttons
Centaurea cyanus
Thistle
Carduus sp.
Elephant's-foot
Elephantopus sp.
Joe-pye-weed
Eupatorium sp.
Rabbit-tobacco
Gnaphalium sp.
Swamp-beacon
Mitrula patulosa

Black-knot
Apiosporina morbosa
Common Split-gill
Schizophyllum commune
Fawn Mushroom
Pluteus cervinus
Carnival-candy Slime
Arcyria denudata

FAUNA

Cherry Leaf Spindle Gail Mite
Phytopus cerasicrumena
Spittlebug
Philaenus sp.
Woolly Alder Aphid
Prociphilus tessellatus
Wool-sower Gall (wasp)
Callirhytis seminator
Eastern Tiger Swallowtail
Papilio glaucus
Eastern Box Turtle (shell)
Terrapene carolina
Killdeer
Charadrius vociferus
Mourning Dove
Zenaida macroura
Red-bellied Woodpecker
Melanerpes carolinus
American Crow
Corvus brachyrhynchos
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Eastern Bluebird
Sialia sialis
Rufous-sided Towhee
Pipilo erythrophthalmus
Chipping Sparrow
Spizella passerina

Jack-in-the-pulpit, *Arisaema triphyllum*.

(Photos by A. Ciegler and L. Smith)

Science and Nature Notes: Appalachian Mountains

Mountains are certainly among the most grand geological features on Earth. They are formed by faulting, folding, volcanism, or a combination of these forces. The Earth's crust is now known to be composed of large tectonic plates which move about. These plates may move apart or crash together. This new understanding has helped explain many of the land-forms found along the edges of continents. A massive continental collision folded the Earth's crust along the eastern edge of North America creating the Appalachian Mountains. These mountains extend for approximately 2000 miles and are composed of modified marine sediments and continental crust.

The formation of the Appalachians may be divided into three phases. The first, or Taconic, phase occurred between 450 and 470 million years ago. In this phase, a small continental mass and an arc of volcanic islands were crushed against North America, forming a mountain range probably comparable to the Himalayas. These early mountains exist today as the Blue Ridge ranges. The massive granitic rocks at Caesars Head and Table Rock (Pickens County) state parks formed at this time. These rocks, initially formed miles underground, have been exposed by subsequent erosion. The Piedmont regions of North and South Carolina formed at this time as well. This period was distinguished by enormous volcanic eruptions.

The second phase of mountain building began as the continent of Africa made initial contact with northern North America, closing an ancient sea. This phase, the Acadian, took place from 360 to 400 million years ago, and is most evident in Nova Scotia and New Brunswick. The final, Alleghenian, phase occurred from 250 to 300 million years ago when Africa collided farther south, producing the Valley and Ridge ranges west of the Blue Ridge. At this point, the Appalachian formation was complete, the ancient sea was closed, and the world's continents were joined into one great land mass, Pangea.

—Danny Smith, former SCAN president

Caesars Head State Park

Greenville County

September 28, 1991, and September 23, 1995

This is the most mountainous of the South Carolina state parks, offering scenery found almost nowhere else in the state. The rock for which the park is named provides an interesting habitat for some uncommon plant material. The open rock promontory also serves as a good lookout for observing the fall bird migration, with the raptors being among the most spectacular. On a good day after a cold front has passed in late September, it is possible to see thousands of hawks go by. Ravens are year-round residents here. Mountain plants add to the interest of this park, especially the spring ephemeral wildflowers, followed by flowering shrubs such as mountain-laurel and rhododendron species.

Directions to Caesars Head State Park: From Greenville, take US 276 north through Travelers Rest to Cleveland; continue 6 more miles and follow US 276 north toward Caesars Head and Brevard, North Carolina. The road winds steeply up the mountain for about 7 miles until reaching the park headquarters on the left.



Caesars Head State Park (continued)
September 28, 1991, and September 23, 1995

FLORA

Lichen

Leptogium cyanescens
Peltigera canina
Graphis scripta
Porpidia albocaularescens
Cladonia subtenius
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia polycarpoides
Cladonia peziziformis
Pertusaria ostiolata
Pertusaria texana
Lecanora cupressi
Lecanora caesiurubella f. prolifera
Ochrolechia africana
Ancia colpodis
Bulbostylis goebellii f. minor
Candelaria concolor
Parmelia horrescens
Parmotrema tinctorum
Flavoparmelia baltimorensis
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia radecta
Ulexia rubicunda
Ulexia strigosa
Trypethelium virens
Shining Clubmoss
Lycopodium lucidulum
Hay-scented Fern
Denstedtia punctilobula
Bracken
Pteridium aquilinum
Southern Lady Fern
Adiantum asplenoides
Christmas Fern
Polystichum acrostichoides
New York Fern
Thelypteris noveboracensis
Ebony Spleenwort
Asplenium platyneuron
White Pine
Pinus strobus
Pitch Pine
Pinus rigida
Short-leaf Pine
Pinus echinata
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Hemlock
Tsuga canadensis
Carolina Hemlock
Tsuga caroliniana
Cane; Switch Cane
Arundinaria gigantea
Microstegium (grass)
Microstegium vimineum
Jack-in-the-pulpit
Arisaema triphyllum

Dayflower

Commelina communis
Commelina sp.
Greenbrier; Bullbrier
Smilax rotundifolia
Solomon's-seal
Polygonatum biflorum
Wild Yam
Dioscorea villosa
Yellow Star-grass
Hypoxis hirsuta
Crested Iris
Iris cristata
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Typharia discolor
Pignut Hickory
Carya glabra
Cherry Birch
Betula lenta
American Chestnut
Castanea dentata
Allegheny Chinquapin
Castanea pumila pumila
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Red Oak
Quercus rubra
Scarlet Oak
Quercus coccinea
Wild Ginger
Asarum canadense
Pinkweed
Polygonum pennsylvanicum
Polygonum
Polygonum cespitosum longisetum
Tearthumb
Polygonum sagittatum
Virgin's-bower
Clematis virginiana
Meadow-rue
Thalictrum sp.
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Wild Hydrangea
Hydrangea arborescens
Hydrangea arborescens radiata
Witch-hazel
Hamamelis virginiana
Five-fingers
Potentilla canadensis
Red Clover
Trifolium pratense

Black Locust

Robinia pseudo-acacia
Wood-sorrel
Oxalis grandis
Button-rosy
Polygala curtissii
Flowering Spurge
Euphorbia corollata
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Striped Maple
Acer pensylvanicum
Red Maple
Acer rubrum
Spotted Touch-me-not
Impatiens capensis
Muscadine; Bullace
Vitis rotundifolia
Fox Grape
Vitis labrusca
Halberd-leaved Violet
Viola hastata
Common Evening-primrose
Oenothera biennis
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Silky Dogwood
Cornus amomum
Mountain Sweet Pepperbush
Clethra acuminata
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora
Pine-sap
Monotropa hypopitys
Rosebay; Great Laurel
Rhododendron maximum
Carolina-laurel
Rhododendron minus
Mountain-laurel
Kalmia latifolia
Dog-hobble
Lewcothoe axillaris editorum
Sourwood
Oxydendrum arboreum
Trailing-arbutus
Epigaea repens
Huckleberry
Gaylussacia ursina
Galax; Galaxy; Coltsfoot
Galax aphylla
Whorled Loosestrife
Lythymachia quadrifolia
Horse-sugar; Sweetleaf
Symplocos tinctoria
Carolina Silverbell
Halesia carolina
Silverbell
Halesia sp.
American Ash; White Ash
Fraxinus americana

Common Skullcap

Scutellaria integrifolia
Carpenterweed
Prunella vulgaris
Dotted Horsemint
Monarda punctata
Horse-balm
Collinsia canadensis
Horse-nettle
Solanum carolinense
False Foxglove
Agalinis tenuifolia
Squaw-root
Conopholis americana
Partridge-berry
Mitchella repens
Bluets
Houstonia sp.
Maple-leaf Viburnum
Viburnum acerifolium
Bluebell
Campanula divaricata
Lobelia
Lobelia puberula
Gall-of-the-earth
Prenanthes trifoliolata
Rattlesnake-root
Prenanthes altissima
Gall-of-the-earth
Prenanthes serpentina
Prenanthes
Prenanthes sp.
Pale Indian-plantain
Cacalia atriplicifolia
Elephant's-foot
Elephantopus tomentosus
Joe-pye-weed
Eupatorium fistulosum
White Snakeroot
Eupatorium rugosum
Rabbit-tobacco
Gnaphalium obtusifolium
Heart-leaved Aster
Aster divaricatus
Heart-leaved Aster
Aster cordifolius
Aster
Aster puniceus
Aster curtisii
Aster sp.
Gray Goldenrod
Solidago nemoralis
Goldenrod
Solidago sp.
Hairy Sunflower
Helianthus tomentosus
Coreopsis
Coreopsis major
Spanish-needles
Bidens bipinnata
Beggar-ticks
Bidens pilosa
Sneeze-weed
Helenium autumnale
Yarrow; Milfoil
Achillea millefolium

Eyelash Cup
Scutellinia scutellata
Green Stain
Chlorociboria aeruginascens
Pungent Cystoderma
Cystoderma amianthinum
rugosoreticulatum
Tawny Grisette
Amanita fulva
Gemmed Amanita
Amanita gemmata
Destroying-angel
Amanita virosa
Graceful Bolete
Tylopilus gracilis
Waxy-cap (mushroom)
Hygrocybe punicea
Spotted-stalked Milky
Lactarius scrobiculatus
Tacky Green Russula
Russula aeruginea
Graying Yellow Russula
Russula claroflava
Spotted Mycena
Mycena muscicola
Gem-studded Puffball
Lycoperdon perlatum
Earthstar
Scleroderma sp.

Stalked Puffball-in-aspid
Calostoma cinnabarinum
Calostoma (mushroom)
Calostoma sp.

FAUNA

Giant Forest Snail
Mesodon normalis
White Micrathena (spider)
Micrathena mitrata
Red Velvet Mite
Trombidium sp.
June-beetle Wasp
Pelecinus polytorator
Fork-tailed Bush Katydid
Scudderella furcata
Cave Cricket
Ceuthophilus sp.
Yellowjacket
Vespa sp.
Cloudless Sulphur
Phoebastria sennae eubule
Monarch (butterfly)
Danaus plexippus
Jordan's Salamander
Plethodon jordani
Eastern Garter Snake
Thamnophis sirtalis
Turkey Vulture
Cathartes aura

Mourning Dove
Zenaidura macroura
Ruby-throated Hummingbird
Archilochus colubris
Downy Woodpecker
Picoides pubescens
Pileated Woodpecker
Dryocopus pileatus
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Common Raven
Corvus corax
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
White-breasted Nuthatch
Sitta carolinensis
Carolina Wren
Thryothorus ludovicianus
American Robin
Turdus migratorius
Brown Thrasher
Toxostoma rufum
Yellow-throated Vireo
Vireo flavifrons
Solitary Vireo
Vireo solitarius

Tennessee Warbler
Vermivora peregrina
Black-and-white Warbler
Mniotilta varia
Black-throated Blue Warbler
Dendroica caerulescens
Chestnut-sided Warbler
Dendroica pensylvanica
Magnolia Warbler
Dendroica magna
Black-throated Green Warbler
Dendroica virens
Yellow-throated Warbler
Dendroica dominica
Bay-breasted Warbler
Dendroica castanea
Blackpoll Warbler
Dendroica striata
Ovenbird
Seiurus aurocapillus
American Redstart
Setophaga ruticilla
Rose-breasted Grosbeak
Pheucticus ludovicianus
Rufous-sided Towhee
Pipilo erythrophthalmus
Dark-eyed Junco
Junco hyemalis
Gray Squirrel
Sciurus carolinensis

Eva Russell Chandler Heritage Preserve Greenville County May 8, 1993

Located on a shoulder of the Blue Ridge escarpment below Caesars Head State Park, this preserve includes habitats populated by several endangered plants. These include mountain sweet pitcher-plant, grass-of-Parnassus, divided-leaved groundsel, and Indian paintbrush. There are granite outcrops, one of which has a beautiful cataract formed by an enthusiastic stream. These areas harbor plants that are rare in the mountains. The winter of '92-'93 had been one of heavy wet snow followed by high wind, followed by an ice storm. The resulting tree fall made navigating the trails a bit hazardous, and limited the area that could be covered.

Directions to Eva Russell Chandler Heritage Preserve: From Greenville, take US 276 north through Travelers Rest to Cleveland; continue 6 more miles and follow US 276 north toward Caesars Head and Brevard, North Carolina. Watch for the Little Bald Rock community, and then go less than a mile and take a gravel road to the right, Persimmon Ridge Road. The road slopes downhill from US 276, which makes it hard to see, so watch closely. Go down Persimmon Ridge Road about 0.5 mile until you see a pull-off on the right. Trees are posted with Heritage Preserve signs. Park at the pull-off.



Rock outcrop.

(Photo by L. Smith)

Eastern box turtle, *Terrapene carolina*.

(Photo by L. Smith)



Eva Russell Chandler Heritage Preserve (continued)
May 8, 1993

FLORA**Lichen**

Cladonia rangiferina humilis
Cladonia polycarpoides sterilis
Polyporus simplex
Collema subfloccidum
Leptogium burnetiae
Leptogium corticola
Leptogium cyanescens
Graphis scripta
Graphis tenella
Graphis sp.
Bacidia phacodes
Bacidia abdactores
Bacidia sp.
Leptogium austroamericanum
Lecidea albocaulericens
Lecidea russula
Baeomyces fungoides
Cladonia rangiferina patula
Cladonia sp.
Cladonia cariosa
Cladonia caroliniana caroliniana
Cladonia chlorophaea f. intermedia
Cladonia chlorophaea costata
Cladonia chlorophaea f. pterygota
Cladonia chlorophaea lepidophora
Cladonia coniocraea
Cladonia coniocraea f. subpelliculata
Cladonia coniocraea f. cerasodes
Cladonia cristatella cristatella

Cladonia cristatella pleurocarpa
Cladonia didyma squamulosa
Cladonia furcata furcata
Cladonia leporina leporina
Cladonia leporina ramosa
Cladonia leporina squamulosa
Cladonia polycarpoides squamulosa
Cladonia polycarpoides polycarpoides
Cladonia polycarpoides ramosa
Cladonia polycarpoides epiphylla
Cladonia didyma didyma
Cladonia squamosa murina
Cladonia squamosa squamosa
Cladonia squamosa phyllocoma
Cladonia squamosa levicorticata
Cladonia didyma epiphylla
Cladonia squamosa clavariella
Cladonia petziiformis
Cladonia petziiformis stenophylloides
Pyrenothelia papillaria
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria rufefusa
Pertusaria texana
Pertusaria sp.
Lecanora cupressi
Lecanora pallida
Phlyctis sp.
Candelaria concolor
Hypotrachyna livida
Parmelia sp.

Parmelia aurulenta
Parmelia horrescens
Parmelia minarum
Parmotrema arnoldii
Parmotrema crinitum
Parmotrema mellissii
Parmotrema michauxianum
Parmotrema xanthinum
Parmotrema chinense
Xanthoparmelia conspersa
Xanthoparmelia plittii
Xanthoparmelia subramigera
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Melanella exasperata
Inthaugia alaurites
Rimelia reticulata
Tuckermannopsis oakesiana
Ramalina americana
Usnea ceratina
Usnea mutabilis
Usnea subfloridana
Usnea sp.
Buellia punctata
Buellia coccinea
Buellia curatellae
Buellia disciformis
Physcia subtilis
Heterodermia albicans
Heterodermia obscurata
Heterodermia speciosa
Pyxine sorediata
Phaeophytocia rubropulchra
Rinodina tephraeopsis
Physconia enteroxantha
Normandina pulchella
Trypethelium virens
Twisted-hair Spikemoss
Selaginella tortipila
Royal Fern
Osmunda regalis spectabilis
Lip Fern
Cheilanthes sp.
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
New York Fern
Thelypteris noveboracensis
Resurrection Fern
Polypodium polypodioides
White Pine
Pinus strobus
Short-leaf Pine
Pinus echinata
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Hemlock
Tsuga canadensis
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea

Melic Grass
Melica mutica
Needle Grass
Stipa avenacea
Jack-in-the-pulpit
Arisaema triphyllum
Greenbrier
Smilax ecirrhata biltmoreana
Greenbrier; Catbrier
Smilax sp.
Catesby's Trillium
Trillium catesbaei
Indian Cucumber-root
Medeola virginiana
False Solomon's Seal
Smilacina racemosa
Solomon's-seal
Polygonatum biflorum
Wild Yam
Dioscorea villosa villosa
Yellow Star-grass
Hypoxis hirsuta
Crested Iris
Iris cristata
Pink Lady's-slipper
Cypripedium acaule
Downy Rattlesnake-plantain
Goodyera pubescens
Tag Alder
Alnus serrulata
Cherry Birch
Betula lenta
Beech
Fagus grandifolia
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Red Oak
Quercus rubra
Buffalo-nut
Pyralaria pubera
Heartleaf
Hexastylis sp.
Sandwort
Arenaria groenlandica
Yellowroot
Xanthorhiza simplicissima
Meadow-rue
Thalictrum sp.
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Dwarf PawPaw
Asimina parviflora
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Virginia-willow
Itea virginica
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana

Blackberry; Brambles <i>Rubus</i> sp.	Cow-bane <i>Oxypolis rigidior</i>	Lyre-leaved Sage <i>Salvia lyrata</i>	Chaffer; Scarab Beetle <i>Dichelonyx fuscata</i>
Indian-physic <i>Gillenia trifoliata</i>	Black Tupelo; Blackgum <i>Nyssa sylvatica sylvatica</i>	False Foxglove <i>Aureolaria</i> sp.	Striped Click Beetle <i>Cenocera</i> sp.
Downy Serviceberry <i>Amelanchier arborea</i>	Flowering Dogwood <i>Cornus florida</i>	Cross Vine <i>Anisostichus caprolata</i>	Soft-winged Flower Beetle <i>Collops vittatus</i>
Black Cherry; Wild Cherry <i>Prunus serotina</i>	Silky Dogwood <i>Cornus amomum</i>	Broomrape <i>Orobanchae uniflora</i>	Leaf-mining Beetle <i>Anoplitis inaequalis</i>
Black Locust <i>Robinia pseudo-acacia</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Partridge-berry <i>Mitchella repens</i>	Evergreen Bagworm Moth <i>Thyridopteryx ephemeraeformis</i>
Bristly Locust <i>Robinia hispida</i>	Rosebay; Great Laurel <i>Rhododendron maximum</i>	Blueets <i>Houstonia caerulea</i>	Orange-patched Smoky Moth <i>Pyromorpha dimidiata</i>
Hog-peanut <i>Amphicarpa bracteata</i>	Carolina-laurel <i>Rhododendron minus</i>	Maple-leaf Viburnum <i>Viburnum acerifolium</i>	Eastern Newt <i>Notophthalmus viridescens</i>
Flowering Spurge <i>Euphorbia corollata</i>	Pinxter-flower; Pinxter-bloom <i>Rhododendron nudiflorum</i>	Prenanthes <i>Prenanthes</i> sp.	Toad <i>Bufo</i> sp.
Poison-ivy <i>Rhus radicans</i>	Mountain-laurel <i>Kalmia latifolia</i>	Rattlesnake-weed <i>Hieracium venosum</i>	Spring Peeper <i>Hyla crucifer</i>
Poison-oak <i>Rhus toxicodendron</i>	Dog-hobble <i>Leucothoe axillaris editorum</i>	Ragwort <i>Senecio</i> sp.	Eastern Box Turtle <i>Terrapene carolina</i>
Smooth Sumac <i>Rhus glabra</i>	Sourwood <i>Oxydendrum arboreum</i>	Pussy-toes <i>Antennaria plantaginifolia</i>	Blue Jay <i>Cyanocitta cristata</i>
American Holly <i>Ilex opaca</i>	Trailing-arbutus <i>Epigaea repens</i>	Robin's-plantain <i>Erigeron pulchellus</i>	American Crow <i>Corvus brachyrhynchos</i>
Mountain Holly <i>Ilex ambigua montana</i>	Sparkleberry <i>Vaccinium arboreum</i>	Rosinweed <i>Silphium compositum</i>	Tufted Titmouse <i>Parus bicolor</i>
Hearts-a-burstin'-with-love <i>Eustoma americanus</i>	Deerberry; Squaw-buckeberry <i>Vaccinium stamineum</i>	FAUNA	Carolina Chickadee <i>Parus carolinensis</i>
Red Maple <i>Acer rubrum</i>	Low-bush Blueberry <i>Vaccinium vacillans</i>	Rabid Wolf Spider <i>Lycosa rabida</i>	Carolina Wren <i>Thryothorus ludovicianus</i>
Virginia-creeper <i>Parthenocissus quinquefolia</i>	Whorled Loosestrife <i>Lysimachia quadrifolia</i>	Hickory Seed Gall (aphid) <i>Phylloxera carboesemen</i>	Solitary Vireo <i>Vireo solitarius</i>
Muscadine; Bullace <i>Vitis rotundifolia</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	Chestnut Petiole Gall (wasp) <i>Neuroterus minutus</i>	Pine Warbler <i>Dendroica pinus</i>
SL-Andrew's-cross <i>Hypericum hypericoides</i>	Carolina Silverbell <i>Halesia carolina</i>	Black Oak Lamina Platform Gall <i>Neuroterus</i> sp.	Hooded Warbler <i>Wilsonia citrina</i>
Bird-foot Violet <i>Viola pedata</i>	American Ash; White Ash <i>Fraxinus americana</i>	Blackjack Oak Apple (gall wasp) <i>Disholcaspis lupuli</i>	Ovenbird <i>Seiurus aurocapillus</i>
Primrose-leaved Violet <i>Viola primulifolia</i>	Fringe-tree <i>Chionanthus virginicus</i>	Chestnut Oak Midrib Tumor Gall <i>Plagiotrochus tumeficus</i>	Rose-breasted Grosbeak <i>Phaeothorus ludovicianus</i>
Round-leaved Yellow Violet <i>Viola rotundifolia</i>	Angle-pod <i>Maileia</i> sp.	White Oak Club Gall (wasp) <i>Callirhytis clavula</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Half-berd-leaved Violet <i>Viola hastata</i>	Phlox <i>Phlox amoena</i>	Passalus; Bess-beetle <i>Popillius disjunctus</i>	Scarlet Tanager <i>Piranga olivacea</i>
Prickly-pear <i>Opuntia compressa</i>	Beautyberry <i>Callicarpa americana</i>		

Jones Gap State Park

Greenville County

August 22, 1992

Jones Gap is an easy grade approach to the top of the Blue Ridge where it forms the North Carolina - South Carolina state line. There used to be a relatively easy wagon road that followed this route mostly along the headwaters of the Middle Saluda River. Now the remnants of this road are incorporated into a hiking trail lined with flora and fauna typical of the upper Piedmont to mountain regions. Jones Gap State Park gives access to this trail from the bottom. It also includes the site of the former Cleveland Fish Hatchery, the first state-owned hatchery in South Carolina. Part of the hatchery has been restored and stocked with trout. However, Mother Nature does not always cooperate with long-planned trips. On this date, a very wet front moved in and produced a heavy steady downpour all day. This accounts for the short flora and fauna list. The day was saved by a fascinating special exhibit of Indian artifacts the park and local experts were offering on this weekend.

Directions to Jones Gap State Park: From Greenville, take US 276 north through Travelers Rest to Cleveland; continue for about 1.4 more miles on US 276 and turn right (north) onto River Falls Road, just before the F-Mart general store. Continue on winding River Falls Road (which becomes Jones Gap Road) until it reaches Jones Gap State Park at the end of the road.

Jones Gap State Park (continued)
August 22, 1992

FLORA

Christmas Fern
Polystichum acrostichoides
New York Fern
Thelypteris noveboracensis
Resurrection Fern
Polypodium polypodioides
White Pine
Pinus strobus
Eastern Hemlock
Tsuga canadensis
Wake-robin; Red Trillium
Trillium erectum vaseyi
Indian Cucumber-root
Medeola virginiana
False Solomon's Seal
Smilacina racemosa
Solomon's-seal
Polygonatum biflorum
Crested Iris
Iris cristata
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Hickory
Carya sp.
Tag Alder
Alnus serrulata
Beech
Fagus grandifolia
White Oak
Quercus alba
Red Oak
Quercus rubra
Buffalo-nut
Pyrularia pubera
Tulip-poplar
Liriodendron tulipifera
PawPaw
Asimina triloba
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Mock-orange
Philadelphus inodorus
Wild Hydrangea
Hydrangea arborescens radiata
Sweet-gum
Liquidambar styraciflua

Witch-hazel
Hamamelis virginiana
American Sycamore
Platanus occidentalis
Cockleburr
Agrimonia sp.
Naked-flower Tick-trefoil
Desmodium nudiflorum
Black Locust
Robinia pseudo-acacia
Hog-peanut
Amphicarpa bracteata
Poison-ivy
Rhus radicans
Hearts-a'-burstin'-with-love
Eustoma americanus
Striped Maple
Acer pensylvanicum
Red Maple
Acer rubrum
Sugar Maple; Hard Maple
Acer saccharum
Yellow Buckeye
Aesculus octandra
Basswood; Linden
Tilia sp.
Spikenard
Aralia racemosa
Sanicle; Snakeroot
Sanicula canadensis
Flowering Dogwood
Cornus florida
Mountain Sweet Pepperbush
Clethra acuminata
Rosebay; Great Laurel
Rhododendron maximum
Carolina-laurel
Rhododendron minus
Dog-hobble
Leucothoe axillaris editorum
Sourwood
Oxydendrum arboreum
Galax; Galaxy; Coltsfoot
Galax aphylla
American Ash; White Ash
Fraxinus americana
Carpenterweed
Prunella vulgaris
Cross Vine
Anisostichus capreolata



Partridge-berry
Mitchella repens
Maple-leaf Viburnum
Viburnum acerifolium
Hawkweed
Hieracium paniculatum
Elephant's-foot
Elephantopus carolinianus

FAUNA

Orb-weaver
Neoscona arabesca
American Toad
Bufo americanus



The Middle Saluda River on a bright and sunny day. SCAN's visit was quite unlike this scene.

Roper Mountain Science Center

Greenville County

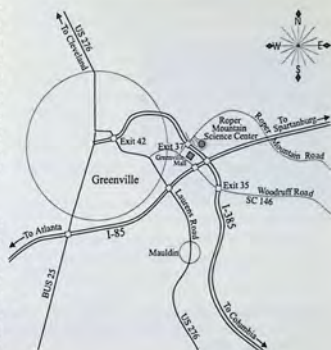
July 22, 1989

This lovely hilltop within the city limits of Greenville houses a very well-equipped center for the demonstration of scientific observation for students (of all ages). SCAN spent most of the day indoors examining, and in some cases playing with, the equipment. The telescopes allowed us to see sunspots, not something we ordinarily can do on a field trip. The plantings outside are man-made so no list was made except of a few "weeds" along the edges. Insects were active, and notes were made of those we saw. This is a facility that offers a lot of interest during the hours it is open to the public.

Operated by Greenville County School District.

Directions to Roper Mountain Science Center:

From Columbia, take I-26, then take I-385 north toward Greenville. Go past the intersection with I-85 and continue on I-385 toward downtown Greenville. Exit one mile after that intersection at Exit 37, Roper Mountain Road; turn east (away from Greenville). Pass the frontage road and the next road (Greenville County Recreation Commission) and turn right at the third road into the Roper Mountain Science Center.



FLORA

Sensitive-brier

Schrankia microphylla

Red Clover

Trifolium pratense

Passionflower; Maypops

Passiflora incarnata

Meadow Mushroom

Agaricus campestris

Destroying-angel

Amanita virosa

Rosy Larch Bolete

Fuscoboletinus ochraceoroseus

Birch Bolete

Austroboletus betula

Emetic Russula

Russula emetica

Pinwheel Marasmius

Marasmius sp.

False Puffball

Scleroderma vulgare

FAUNA

Common Green Darner

Anax junius

Calico Pennant (dragonfly)

Celithemis elisa

Eastern Pondhawk

Erythemis simplicicollis

Eastern Amberwing (dragonfly)

Perithemis tenera

Violet-masked Glider

Tramea carolina

Water Scavenger Beetle

Berosus aculeatus

Tumbling Flower Beetle

Mondella melaena

Flea Beetle

Disonychia collata

Short-nouted Weevil

Pandeleteius sp.

Corn Pith Weevil

Centrinaspis penicellus

Eastern Tiger Swallowtail

Papilio glaucus

Cabbage White (butterfly)

Pieris rapae

Gray Hairstreak

Strymon melinus

Eastern Tailed-blue(butterfly)

Everes comyntas

Common Buckeye (butterfly)

Junonia coenia

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Eastern Fence Lizard

Sceloporus undulatus

Six-lined Racetracker

Cnemidophorus sexlineatus



Gray hairstreak, *Strymon melinus*, on Joe-pye weed.

(Photo by L. Smith)

Wildcat Wayside

Greenville County

April 23, 1989

This picnic area provides access to a small valley that is rich in mountain flora and fauna. The stream that produces the waterfall visible from the highway enters the valley by sheeting down an almost vertical rock face to a pile of boulders at the base, then emerging as a recognizable stream in a conventional, albeit rocky, stream-bed. Salamanders can often be observed if one carefully turns over these rocks. The trail from the grassy picnic area to the rockface is a rhododendron tunnel with an occasional open flat area with interesting plant and animal life.

Maintained by the S.C. Department of Parks, Recreation, and Tourism.

Directions to Wildcat Wayside: From Greenville, take US 276 north through Travelers Rest to Cleveland and note the intersection where SC 11 joins US 276. Continue on US 276 and watch carefully for a sign at Persimmon Ridge Road on the right about 2-4 miles past the intersection in Cleveland. Wildcat Wayside is ahead on the right, unmarked. It has a wide parking area on the right side of the road, just past a small waterfall which is visible to slow-moving traffic.



FLORA

Rock Spikemoss

Selaginella rupestris

Bracken

Pteridium aquilinum

Southern Lady Fern

Adiantum asplenifolium

Christmas Fern

Polystichum acrostichoides

New York Fern

Thelypteris noveboracensis

Ebony Spleenwort

Asplenium platyneuron

White Pine

Pinus strobus

Virginia Pine; Scrub Pine

Pinus virginiana

Eastern Hemlock

Tsuga canadensis

Catesby's Trillium

Trillium catesbaei

False Solomon's Seal

Smilacina racemosa

Solomon's-seal

Polygonatum biflorum

Blazing-star

Chamaelirium luteum

Wild Yam

Dioscorea villosa

Crested Iris

Iris cristata

Downy Rattlesnake-plantain

Goodyera pubescens

Crane-fly Orchid

Tipularia discolor

Hickory

Carya sp.

Cherry Birch

Betula lenta

Beech

Fagus grandifolia

White Oak

Quercus alba

Rock Chestnut Oak

Quercus prinus

Winged Elm

Ulmus alata

Buffalo-nut

Pyrularia pubera

Heartleaf

Hexastylis arifolia

Sandwort

Arenaria groenlandica

Yellowroot

Xanthorhiza simplicissima

Black Cohosh

Cimicifuga racemosa

Mayapple

Podophyllum peltatum

Tulip-poplar

Liriodendron tulipifera

Umbrella-tree

Magnolia fraseri

Cucumber-tree

Magnolia acuminata

Dwarf PawPaw

Asimina parviflora

Sweet-shrub; Carolina-allspice

Calycanthus floridus

Sassafras

Sassafras albidum

Wild Radish

Raphanus raphanistrum

Wild Hydrangea

Hydrangea arborescens

Sweet-gum

Liquidambar styraciflua

Witch-hazel

Hamamelis virginiana

American Sycamore

Platanus occidentalis

Five-fingers

Potentilla canadensis

Black Cherry; Wild Cherry

Prunus serotina

Redbud; Judas-tree

Cercis canadensis

Flowering Spurge

Euphorbia corollata

Poison-ivy

Rhus radicans

Poison-oak

Rhus typhoides

Hearts-a-burstin'-with-love

Eustoma americanus

Red Maple

Acer rubrum

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Mountain Camellia

Stewartia ovata

Sweet White Violet

Viola blanda

Halberd-leaved Violet

Viola hastata

Long-spurred Violet

Viola rostrata

Prickly-pear

Opuntia compressa

Golden-Alexander

Zizia aurea

Flowering Dogwood

Cornus florida

Alternately-leaved Dogwood

Cornus alternifolia

Spotted Wintergreen

Chimaphila maculata

Rosebay; Great Laurel

Rhododendron maximum

Mountain-laurel

Kalmia latifolia

Dog-hobble

Leucothoe axillaris

Trailing-arbutus

Epigaea repens

Sparkleberry
Vaccinium arboreum
Carolina Silverbell
Halesia carolina
Silverbell
Halesia parviflora
Fringe-tree
Chionanthus virginicus
Smooth Phlox
Phlox glaberrima
Lyre-leaved Sage
Salvia lyrata
Toadflax
Linaria canadensis
Cross Vine
Anisostichus capreolata
Partridge-berry
Mitchella repens
Bliets
Houstonia caerulea
Japanese Honeysuckle
Lonicera japonica
Maple-leaf Viburnum
Viburnum acerifolium
Prenanthes
Prenanthes sp.
Rattlesnake-weed
Hieracium venosum

Common Dandelion
Taraxacum officinale
Senecio
Senecio millefolium
Pussy-toes
Antennaria plantaginifolia
Cudweed
Gnaphalium purpureum
Robin's-plantain
Erigeron pulchellus
Tansy
Tanacetum vulgare
Common Split-gill
Schizophyllum commune

FAUNA

Ray Spider
Theridion radiosa
Black & Yellow Mud-dauber
Sceliphron caementarium
June Beetle
Phyllophaga sp.
Chafer; Scarab Beetle
Dichelonyx subvittata
Zebra Swallowtail
Eurytides marcellus

Spicebush Swallowtail
Papilio troilus
Red-banded Hairstreak
Calyptis cecrops
Eastern Tailed-blue(butterfly)
Everes corymbus
Eastern Tent Caterpillar
Malacosoma americanum
Northern Dusky Salamander
Desmognathus fuscus
Carolina Anole
Anolis carolinensis
Eastern Fence Lizard
Sceloporus undulatus
Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Eastern Bluebird
Sialia sialis
Yellowthroat
Geothlypis trichas

Eastern Chipmunk
Tamias striatus
Gray Squirrel
Sciurus carolinensis
Golden Mouse
Ochrotomys nuttalli



(Photo by L. Smith)

Trailing-arbutus, *Epigaea repens*.

Greenwood County

Ninety Six National Historic Site (Star Fort)

Greenwood County

July 25, 1987

This historic site features a Revolutionary War fort designed like a star, as was typical of the times. SCAN began this visit with an extensive tour of the site guided by a Park Ranger, who explained the events of the time and the role of the fort in the American Revolution. Although it was an extremely hot day even for South Carolina, members spread out over the less disturbed areas of the site and found many natural history items of interest. Oglethorpe oak grows in only a few low wooded areas in the Piedmont, including this site. Seven other species of oak were seen. It was a good day to stay in the shade and really look at the trees.

Directions to Ninety Six National Historic Site:

From Greenwood, take SC 34 east 9 miles to Ninety-Six. In the center of town, turn right (south) onto SC 248. The entrance to the site is clearly marked on the left in about 1.5 miles.



Ninety Six National Historic Site (continued)

July 25, 1987

FLORA

Christmas Fern
Polystichum acrostichoides
 Lobloolly Pine
Pinus taeda
 Eastern Red-cedar
Juniperus virginiana
 Common Cat-tail
Typha latifolia
 Asparagus
Asparagus officinalis
 Eastern Cottonwood
Populus deltoides
 Black Walnut
Juglans nigra
 Tag Alder
Alnus serrulata
 White Oak
Quercus alba
 Post Oak
Quercus stellata
 Oglethorpe Oak
Quercus oglethorpensis
 Red Oak
Quercus rubra
 Black Oak
Quercus velutina
 Spanish Oak
Quercus falcata
 Water Oak
Quercus nigra
 Willow Oak
Quercus phellos
 Winged Elm
Ulmus alata
 Hackberry
Celtis occidentalis georgiana
 Red Mulberry
Morus rubra
 Coralbeads
Coccoloba carolinensis
 Tulip-poplar
Liriodendron tulipifera
 PawPaw
Asimina triloba
 Sassafras
Sassafras albidum
 Sweet-gum
Liquidambar styraciflua
 Black Cherry; Wild Cherry
Prunus serotina
 Mimosa; Silk-tree
Albizia julibrissin
 Honey Locust
Gleditsia triacanthos
 Sericea
Lespedeza cuneata
 Kudzu
Pueraria lobata
 Poison-ivy
Rhus radicans

Winged Sumac
Rhus copallina
 Hearts-a-burstin'-with-love
Eustoma americanum
 Boxelder
Acer negundo
 Red Maple
Acer rubrum
 Spotted Touch-me-not
Impatiens capensis
 Virginia-creeper
Parthenocissus quinquefolia
 Muscadine; Bullace
Vitis rotundifolia
 Passionflower; Maypops
Passiflora incarnata
 Water-milfoil
Myriophyllum brasiliense
 Queen Anne's-lace; Wild Carrot
Daucus carota
 Mock Bishop's-weed
Psilimum capillareum
 Blackgum
Nyssa sylvatica
 Flowering Dogwood
Cornus florida
 Persimmon
Diospyros virginiana
 American Ash; White Ash
Fraxinus americana
 Butterfly-weed
Asclepias tuberosa
 Brazilian Vervain
Verbena brasiliensis
 Trumpet Vine
Campsis radicans
 Ruellia
Ruellia sp.
 Black-haw; Nanny-berry
Viburnum prunifolium
 Climbing Hempweed
Mikania scandens
 Pussy-toes
Antennaria plantaginifolia
 Black-knot
Aplopappus morbosus
 Common Split-gill
Schizophyllum commune

FAUNA

Spiny-backed Spider
Micrathena gracilis
 Writing Spider
Argiope aurantia
 Eastern Pondhawk
Erythemis simplicicollis
 Pied Skimmer
Libellula lucrosa
 Eastern Amberwing (dragonfly)
Petiolema tenera
 White-tail Dragonfly
Plathemis lydia

Ebony Jewelwing
Calopteryx maculata
 Tiger Beetle
Cicindela sp.
 Pedunculate Ground Beetle
Pezomachus sp.
 Giant Stag Beetle
Lucanus elaphus
 Rhinoceros Beetle
Strategus sp.
 Green June Beetle
Cotinus nitida
 Spicebush Swallowtail
Papilio troilus
 Eastern Tailed-blue (butterfly)
Evers conynatas
 Pearl Crescent
Phyciodes tharos
 Common Buckeye (butterfly)
Junonia coenia
 Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
 Hackberry Emperor (butterfly)
Asterocampa celtis
 Eastern Fence Lizard
Sceloporus undulatus

Five-lined Skink
Eumeces fasciatus
 Six-lined Racerunner
Cnemidophorus sexlineatus
 Turkey Vulture
Cathartes aura
 Northern Bobwhite
Colinus virginianus
 American Robin
Turdus migratorius
 Northern Mockingbird
Mimus polyglottos
 Brown Thrasher
Toxostoma rufum
 Northern Cardinal
Cardinalis cardinalis
 Indigo Bunting
Passerina cyanea
 Red-winged Blackbird
Agelaius phoeniceus
 Summer Tanager
Piranga rubra
 Gray Squirrel
Sciurus carolinensis

Writing spider, *Argiope aurantia*.

(Photo by L. Greenleaf)



Hampton County

Lake Warren State Park

Hampton County

November 21, 1992

Lake Warren is a fairly large but shallow lake fringed by cat-tails and beautiful clumps of yellow-flowered tickseed. The short nature trail goes through a swampy bay forest with some very large loblolly-bays, plus sweet and red bay. Wild-olive is seen along the trail as well. Underneath the bays is a thicket of hollies that has been known to house a family of Swainson's warblers. Waterfowl and alligators are frequently seen in the marshy upper end of the lake where there is a long fishing pier to aid your viewing. The SCAN visit on this day produced a short list until mid-afternoon because of heavy rainfall.

Directions to Lake Warren State Park: From Columbia, take US 321 south through Fairfax to the community of Gifford, about 85 miles. Turn left (east) onto County Road S 25-41 and go 2.6 miles. Turn left again onto SC 363 and drive another 2.6 miles. Turn right on S 25-510 and drive to the park, about 1.4 miles; the entrance is on the right.



FLORA

Lichen

Leptogium cyanescens
Graphis scripta
Graphis mosquitensis
Graphis elegans
Graphis sp.
Gyrostomum scyphuliferum
Gyrostomum sp.
Medusulina nitida
Phaeographis dendritica
Phaeographis sp.
Bacidia schweinitzii
Bacidia dryina
Bacidia laurocerasi
Leptogium austroamericanum
Lecidea russula
Letroia domingense
Letroia sp.
Cladonia calycantha
Cladonia capitata
Cladonia chlorophaea
Cladonia sobolescens
Cladonia conlocraea
Cladonia cristatella cristatella
Cladonia cristatella vestita
Cladonia didyma
Cladonia furcata
Cladonia mateocyatha
Cladonia ochrochlora
Cladonia pityrea
Cladonia polycarpoides
Cladonia sp.
Pertusaria leucostoma
Pertusaria otziolata
Pertusaria paratuberculifera
Pertusaria trachythallina
Pertusaria subpertusa
Pertusaria texana
Pertusaria tetralthalia
Pertusaria sinuomexicana
Haematomma puniceum
Haematomma strigatum
Lecanora miculata
Lecanora allophana argentata
Lecanora cupressi
Lecanora pallida
Lecanora pallida cancriformis
Lecanora pallida f. prolifera
Lecanora varia
Lecanora sp.
Ochrolechia pallescens
Ochrolechia africana

Bulbothrix goebellii
Bulbothrix goebellii f. minor
Hypotrachyna livida
Hypotrachyna citrina sp. nov.
Parmelia aurulenta
Parmelia minorum
Parmeliopsis subambigua
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema tinctorum
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Ramalina americana
Usnea mutabilis
Usnea strigosa
Buellia curatellae
Buellia disciformis
Physcia americana
Heterodermia albicans
Heterodermia obscurata
Heterodermia speciosa
Pycnia caesiopruinosa f. aurea
Rinodina reboris
Ochrolechia pallescens
Pyrenula cerina

Mycoporum sp.
Trypethelium mastoideum
Trypethelium tropicum
Trypethelium floridanum
Trypethelium giganthem sp. nov.
Porina sp.
Schizotomum sp.
Opegrapha sp.
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Southern Lady Fern
Adiantum asplenoides
Virginia Chain Fern
Woodwardia virginica
Netted Chain Fern
Woodwardia virginica
Ebony Splenewort
Asplenium platyneuron
Mosquito Fern
Azolla caroliniana
Loblolly Pine
Pinus taeda

Lake Warren State Park (continued)
November 21, 1992

Pond Pine

Pinus serotina

Spruce Pine

Pinus glabra

Common Cat-tail

Typha latifolia

Southern Naiad

Najas guadalupensis

Brazilian Elodea

Egeria densa

Cane; Switch Cane

Arundinaria gigantea

Baggy-knees Grass

Sacciolepis striata

Panic Grass

Panicum verrucosum

Beard Grass; Plume Grass

Erianthus giganteus

Dulichium (sedge)

Dulichium arundinaceum

Proliferating Spike-rush

Eleocharis sp.

Wool-grass

Scirpus cyperinus

Giant Duckweed

Spirodela punctata

Bogmat

Wolffella floridana

Spanish-moss

Tillandsia usneoides

Sawbrier; Greenbrier

Smilax glauca

Bamboo Smilax

Smilax laurifolia

Sweet-scented Smilax

Smilax anallii

Sarsaparilla-vine

Smilax pumila

Spoonleaf Yucca

Yucca filamentosa filamentosa

Water-spider Orchid

Habenaria repens

Crested Fringed Orchid

Habenaria cristata

Crane-fly Orchid

Tipularia discolor

Lizard's-tail

Scorarius cernuus

Black Willow

Salix nigra

Wax-myrtle; Southern Bayberry

Myrica cerifera

Mockernut Hickory

Carya tomentosa

Pignut Hickory

Carya glabra

Tag Alder

Alnus serrulata

Beech

Fagus grandifolia

White Oak

Quercus alba

Swamp Chestnut Oak

Quercus michauxii

Spanish Oak

Quercus falcata

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Laurel Oak

Quercus laurifolia

American Elm

Ulmus americana

Red Mulberry

Morus rubra

False Nettle

Boehmeria cylindrica

Heartleaf

Hebeclitris arifolia

Mexican-tea

Chenopodium ambrosioides

Alligator-weed

Alternanthera philoxeroides

Water-lily

Nymphaea odorata

Tulip-poplar

Liriodendron tulipifera

Sweetbay

Magnolia virginiana

Southern Magnolia

Magnolia grandiflora

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Virginia-willow

Ita virginica

Climbing-hydrangea

Decumaria barbara

Sweet-gum

Liquidambar styraciflua

Witch-hazel

Hamamelis virginiana

Red Chokeberry

Sorbus arbutifolia arbutifolia

Black Cherry; Wild Cherry

Prunus serotina

Summer-farewell

Peucedanum pinnatum

Sesbania

Sesbania exaltata

American Wisteria

Wisteria frutescens

Coral-bean

Erythrina herbacea

Tread-softly

Cnidocaulis stimulosus

Poison Sumac

Rhus vernix

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

Titi

Cyrilla racemiflora

American Holly

Ilex opaca

Inkberry

Ilex glabra

Sweet Gallberry

Ilex coriacea

Red Maple

Acer rubrum

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Loblolly-bay

Gordonia lasianthus

St.-Andrew's-cross

Hypericum hypericoides

Yellow Passionflower

Passiflora lutea

Mermaid-weed

Proserpinaca pectinata

Water-milfoil

Myriophyllum pinnatum

Devil's-walking-stick

Aralia spinosa

Marsh Pennywort

Hydrocotyle umbellata

Water Pennywort

Hydrocotyle ranunculoides

Intelligence-plant

Centella asiatica

Black Tupelo; Blackgum

Nyssa sylvatica sylvatica

Swamp Tupelo; Swamp Blackgum

Nyssa sylvatica biflora

Flowering Dogwood

Cornus florida

Swamp Dogwood; Stiff Cornel

Cornus stricta

Sweet Pepperbush

Clethra alnifolia tomentosa

Spotted Wintergreen

Chimaphila maculata

Piedmont Azalea

Rhododendron canadense

Dog-hobble

Leucothoe axillaris axillaris

Blueberry

Vaccinium sp.

Water Pimpernel

Samolus parviflorus

Horse-sugar; Sweetleaf

Symplocos tinctoria

Ash

Fraxinus sp.

Wild Olive

Osmanthus americana

Yellow Jessamine

Gelsemium sempervirens

Beautyberry

Callicarpa americana

Blue-curls

Trichostema dichotomum

Shade Mudflower

Micranthemum ambrosium

Trumpet Vine

Campsis radicans

Squaw-root

Conopholis americana

Bladderwort

Utricularia sp.

Button-bush

Cephalanthus occidentalis

Partridge-berry

Mitchella repens

Possumhaw Viburnum

Viburnum nudum

American Elderberry

Sambucus canadensis

Gall-of-the-earth

Prenanthes serpentina

Blazing-star

Liatris elegans

Dog-fennel

Eupatorium capillifolium

Eupatorium compositifolium

Climbing Hempweed

Mikania scandens

Marsh-Heabane

Pluchea camphorata

Horseweed; Mare's-tail

Erigeron canadensis sp.

Aster

Aster dumosus

Gray Goldenrod

Solidago nemoralis

Goldenrod

Solidago fistulosa

Rough-leaved Goldenrod

Solidago rugosa

Camphorweed

Heterotheca subaxillaris

Beggar-ticks

Bidens laevis

FAUNA

Southern Toad

Bufo terrestris

Southern Cricket Frog

Acris gryllus

Pied-billed Grebe

Podilymbus podiceps

Wood Duck

Aix sponsa

Common Moorhen

Gallinula chloropus

American Coot

Fulica americana

Eastern Phoebe

Sayornis phoebe

Ruby-crowned Kinglet

Regulus calendula

Wood Thrush

Hylocichla ustulata

American Robin

Turdus migratorius

Webb Wildlife Center

Hampton County

July 28, 1990

This wildlife center and game management area, operated by the Department of Natural Resources, encompasses about 6000 acres. The wildlife center itself is used as a research and demonstration facility designed to provide multi-use wildlife and timber management information that might be applied statewide. Instead of walking the nature trail through the swampy areas, SCAN, guided by Lewis Rogers of the Wildlife Center staff, walked through a pine forest, open meadow, and then a hardwood forest to observe management practices and investigate briefly the natural habitats these areas formed.

Directions to Webb Wildlife Center: From Columbia, take US 321 south to Garnett, about 100 miles. In Garnett, where US 321 curves to the left toward Hardeeville, take the right fork onto SC 119. Immediately turn right again onto County Road S 25-20 just before the post office on the left, and go about 2 miles. Turn left into the Wildlife Center before the Kings Branch Baptist Church on the right.



FLORA

Fruticose Lichen

Cladonia bacillaris
Cladonia capitata
Cladonia floerkeana
Cladonia pityrea
Cladonia squamosa
Bulbothrix goebelii
Hypotrachyna livida
Parmelia rudecta
Parmelia sp.
Parmelia galbina
Parmotrema cetratum
Parmotrema crinitum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampoddense
Parmotrema reticulatum
Parmotrema tinctorum
Pseudoparmelia caperata
Pseudoparmelia sphaerospora
Xanthoparmelia subramigera
Punctelia appalachensis
Punctelia bolliana
Ramalina sp.
Usnea strigosa
Physcia alpicola
Physcia americana
Heterodermia albicans
Heterodermia granulifera
Heterodermia obscurata
Pyxine caesiopruinosa

Bracken

Pteridium aquilinum

Sensitive Fern

Onoclea sensibilis

Loblolly Pine

Pinus taeda

Bald-cypress

Taxodium distichum

Cane; Switch Cane

Arundinaria gigantea

Sandbur; Sandspurs

Cenchrus sp.

Dwarf Palmetto

Sabal minor

Wax-myrtle; Southern Bayberry

Myrica cerifera

Post Oak

Quercus stellata

Spanish Oak

Quercus falcata

Laurel Oak

Quercus laurifolia

Water-elm; Planer-tree

Platanus aquatica

Sweet-gum

Liquidambar styraciflua

Sicklepod

Cassia obtusifolia

Pencil-flower

Syriotesanthus biflora

Milk-pea

Galactia volubilis

Polygala

Polygala grandiflora

Polygala

Polygala incarnata

Tread-softly

Cnidocotyle stimulosus

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

Red Maple

Acer rubrum

Piriqueta

Piriqueta caroliniana

Waxweed

Cuphea carthagensis

Button Snakeroot

Eryngium yuccifolium

Blackgum

Nyssa sylvatica

Persimmon

Diospyros virginiana

Yellow Jessamine

Gelsemium sempervirens

Angle-pod

Matelea sp.

Ground-ivy; Ponyfoot

Dichondra carolinensis

Bonamia

Bonamia humistrata

Tie-vine; Jacquemontia

Jacquemontia humiflora

Beautyberry

Callicarpa americana

Buchnera

Buchnera floridana

Thoroughwort

Eupatorium leucolepis

Golden Hypomyces

Hypomyces chrysospermus

Citron Amanita

Amanita citrina

Purple-bloom Russula

Russula mariae

Barometer Earthstar

Astraea hygrometricus

Loblolly Pine Rust

Cronartium fusiforme

FAUNA

Crayfish (shell)

Cambarus sp.

Annual Cicada (shell)

Tibicen sp.

Woodland Ground Beetle

Agonum ferrugineum

Blister Beetle

Nemognatha placata

Tooth-necked Longhorn Beetle

Stenodermus dasytomus

Flower Weevil

Centrinaspis sp.*Odontocorynus scutellum-album**Lineobaris denudata*

Webb Wildlife Center(continued) July 28, 1990

Black Swallowtail

Papilio polyxenes asterius

Little Yellow (butterfly)

Eurema lisa

Gulf Fritillary

Agrius vanillae

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Common Wood-symph (butterfly)

Cercyonis pegala

Tent Caterpillar (trucks)

Malacosoma sp.

Eastern Box Turtle (egg)

Terrapene carolina

Black Racer

Coluber constrictor

Great Egret

Casmerodius albus

Turkey Vulture

Cathartes aura

Black Vulture

Coragyps atratus

Mississippi Kite

Ictinia mississippiensis

Northern Bobwhite

Colinus virginianus

Red-headed Woodpecker

Melanerpes erythrocephalus

Blue Jay

Cyanocitta cristata

Carolina Chickadee

Parus carolinensis

Northern Cardinal

Cardinalis cardinalis

Indigo Bunting

Passerina cyanea

Summer Tanager

Piranga rubra

Raccoon

Procyon lotor

White-tailed Deer (bones)

Odocoileus virginianus



Horry County

Cartwheel Bay Heritage Preserve

Horry County

May 24, 1986, May 16, 1987, & May 27, 1995

Cartwheel Bay Heritage Preserve is unique in that it is the only Carolina bay/pine savanna complex in South Carolina. It contains at least nine orchid species, almost every species of carnivorous plant in the state, plus numerous uncommon plants that make the area a botanist's dream. All this diversity attracts birds and insects as well. Venus'-fly-traps are usually in bloom in May, along with most of the orchids, the azalea and *Zenobia*. It will be hot, and if there has been recent rain, it may be wet. Like most bay habitats, there is also a sand ridge that remains dry.

Directions to Cartwheel Bay Heritage Preserve:

From Florence, take US 76 east through Marion, Mullins, and Nichols, to the Lumber River, the boundary between Marion and Horry Counties. Continue on US 76/SC 9 for 0.7 miles, and fork off to the right onto SC 9 for 3.2 more miles. Turn right (southeast) on S 26-19 and drive about 2 miles to a dirt road on the right (opposite S 26-44 on the left). Turn right and travel a short way to Cartwheel Bay, which is marked by a sign on the left; park along the shoulder and walk in.



FLORA

Lichen

Graphis scripta
Cladonia subtenax
Cladonia leporina leporina
Cladonia polycarpoides
Cladonia rappii
Pertusaria copiosa

Pertusaria paratuberculifera
Pertusaria waghornii
Pertusaria sinuomexicana
Maorea constans
Haematomena elatum
Lecanora cupressi
Lecanora varia
Ochrolechia africana

Bulbothrix confederata
Bulbothrix goebellii
Bulbothrix isidiza
Hypotrachyna livida
Parmelina aurulenta
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum

Parmotrema tinctorum
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Rimelia subisidiosa
Usnea mutabilis
Usnea strigosa
Buellia curatellae
Heterodermia obscurata

Peat Moss <i>Sphagnum</i> sp.	Scrubby Post Oak <i>Quercus margareta</i>	Orange Milkwort <i>Polygala lutea</i>	Staggerbush <i>Lyonia mariana</i>
Southern Bog Clubmoss <i>Lycopodium adpressum</i>	Black Jack Oak <i>Quercus marilandica</i>	Polygala <i>Polygala ramosa</i>	Coastal Honeybells <i>Leucothoe racemosa</i>
Clubmoss <i>Lycopodium</i> sp.	Water Oak <i>Quercus nigra</i>	Tread-softly <i>Cnidioscolus stimulosus</i>	Dangleberry <i>Gaylussacia frondosa</i>
Cinnamon Fern <i>Osmunda cinnamomea</i>	Blue-jack Oak <i>Quercus incana</i>	Spurge <i>Euphorbia curtisii</i>	Deerberry; Squaw-huckleberry <i>Vaccinium stamineum</i>
Bracken <i>Pteridium aquilinum</i>	Running Oak <i>Quercus pomifolia</i>	<i>Euphorbia</i> sp.	Low-bush Blueberry <i>Vaccinium tenellum</i>
Virginia Chain Fern <i>Woodwardia virginica</i>	Bastard-toadflax <i>Comandra umbellata</i>	Poison-ivy <i>Rhus radicans</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>
Long-leaf Pine <i>Pinus palustris</i>	Sweetbay <i>Magnolia virginiana</i>	Poison-oak <i>Rhus toxicodendron</i>	Creeping Blueberry <i>Vaccinium crassifolium</i>
Pond Pine <i>Pinus serotina</i>	Redbay <i>Persea borbonia</i>	Winged Sumac <i>Rhus copallina</i>	Pyxle-moss <i>Pyxidanthra barbulate</i>
Short-leaf Pine <i>Pinus echinata</i>	Sassafras <i>Sassafras albidum</i>	Tit <i>Cyrtilla racemiflora</i>	Persimmon <i>Diospyros virginiana</i>
Cane Switch Cane <i>Arundinaria gigantea</i>	Trumpet Pitcher-plant <i>Sarracenia flava</i>	Inkberry <i>Ilex glabra</i>	Fringe-tree <i>Chionanthus virginicus</i>
Love Grass <i>Eragrostis</i> sp.	Sweet Pitcher-plant <i>Sarracenia rubra</i>	Sweet Galberry <i>Ilex coriacea</i>	Milkweed <i>Asclepias micranthi</i>
Wire Grass <i>Aristida</i> sp.	Hooded Pitcher-plant <i>Sarracenia minor</i>	Red Maple <i>Acer rubrum</i>	Annual Phlox <i>Phlox drummondii</i>
Panic Grass <i>Panicum</i> sp.	Frog's-britches <i>Sarracenia purpurea</i>	Supple-Jack; Rattan-vine <i>Berchemia scandens</i>	Toadflax <i>Linaria canadensis</i>
Beak-rush <i>Rhynchospora debilis</i>	Sundew <i>Drosera capillaris</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Buchnera <i>Buchnera floridana</i>
Beak-rush <i>Rhynchospora globularis</i>	Venus'-fly-trap <i>Dionaea muscipula</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Butterwort <i>Pinguicula pumila</i>
Nut-rush <i>Scleria triglomerata</i>	Sweet-gum <i>Liquidambar styraciflua</i>	St.-Peter's-wort <i>Hypericum stans</i>	Wiry Bladderwort <i>Utricularia subulata</i>
Nut-rush <i>Scleria minor</i>	Witch-alder <i>Fothergilla gardenii</i>	St.-John's-wort <i>Hypericum gymnanthum</i>	Bladderwort <i>Utricularia</i> sp.
Bog-buttons <i>Lachnocaulon anceps</i>	Five-fingers <i>Potentilla canadensis</i>	Shrubby Hypericum <i>Hypericum</i> sp.	Virginia Buttonweed <i>Diodia virginiana</i>
Bamboo Smilax <i>Smilax laurifolia</i>	<i>Potentilla simplex</i>	Common Blue Violet <i>Viola papilionacea</i>	Possumhaw Viburnum <i>Viburnum nudum</i>
Cole-root <i>Aletris farinosa</i>	Blackberry <i>Rubus argutus</i>	Bog White Violet <i>Viola lanceolata</i>	Lobelia <i>Lobelia nuttallii</i>
Fly-poison <i>Amianthum muscaetoxicum</i>	Dewberry <i>Rubus trivialis</i>	Smooth Meadow-beauty <i>Rhexia alifanus</i>	Pyrrhopappus <i>Pyrrhopappus carolinianus</i>
Black Snakeroot <i>Zigadenus densus</i>	Blackberry; Brambles <i>Rubus</i> sp.	Pale Meadow-beauty <i>Rhexia mariana</i>	Son-bonnets <i>Chaptalia tomentosa</i>
Yellow Star-grass <i>Hypoxis micrantha</i>	Red Chokeberry <i>Sorbus arbutifolia</i>	Meadow-beauty <i>Rhexia</i> sp.	Deer's-tongue; Vanilla-plant <i>Trillium</i> sp.
Redroot <i>Lachnanthes caroliniana</i>	Black Cherry; Wild Cherry <i>Prunus serotina</i>	Intelligence-plant <i>Centella asiatica</i>	Eupatorium <i>Eupatorium</i> sp.
Blue-eyed-grass <i>Sisyrinchium mucronatum</i>	Sensitive-brier <i>Schrankia microphylla</i>	Eryngium <i>Eryngium prostratum</i>	Rabbit-tobacco <i>Gnaphalium</i> sp.
Rose Pogonia <i>Pogonia ophioglossoides</i>	Wild Indigo <i>Baptisia cinerea</i>	Button Snakeroot <i>Eryngium yuccifolium</i>	Black-root <i>Pterocaulon pycnostachyum</i>
Spreading-pogonia <i>Cleistes divaricata</i>	<i>Baptisia tinctoria</i>	Blackgum <i>Nyssa sylvatica</i>	Sea-myrtle; Groundslee-tree <i>Baccharis halimifolia</i>
Grass-pink <i>Calopogon pulchellus</i>	<i>Baptisia</i> sp.	Swamp Tupelo; Swamp Blackgum <i>Nyssa sylvatica biflora</i>	Swamp Fleabane <i>Erigeron vernus</i>
Pale Grass-pink <i>Calopogon pallidus</i>	Samson Snakeroot <i>Psoralea psoralioides</i>	Sweet Pepperbush <i>Clethra alnifolia</i>	Aster <i>Aster squarrosus</i>
Grass-leaved Ladies'-tresses <i>Spiranthes praecox</i>	<i>Psoralea psoralioides psoralioides</i>	Dwarf Azalea <i>Rhododendron atlanticum</i>	Heterotheca <i>Heterotheca graminifolia</i>
Ladies'-tresses <i>Spiranthes</i> sp.	Pencil-flower <i>Silystanthes biflora</i>	Sheep-kill; Lamb-kill <i>Kalmia angustifolia caroliniana</i>	Rosinweed <i>Silphium compositum</i>
Wax-myrtle; Southern Bayberry <i>Myrica cerifera</i>	Locust <i>Robinia</i> sp.	Honey-cup <i>Zenobia pulverulenta</i>	Barbora's-buttons <i>Marshallia obovata</i>
Dwarf Wax-myrtle <i>Myrica cerifera pumila</i>	Tephrosia <i>Tephrosia hispida</i>	Maleberry <i>Lyonia ligustrina</i>	Common Split-gill <i>Schizophyllum commune</i>
	<i>Tephrosia</i> sp.	Fetterbush <i>Lyonia lucida</i>	

Cartwheel Bay Heritage Preserve (continued)
May 24, 1986, May 16, 1987, and May 27, 1995

FAUNA

Writing Spider (egg)

Argiope aurantia

Goldenrod Spider

Misumenops vaulsi

Jumping Spider

Metaphidippus sp.

Common Meadow Katydid

Orchelimum vulgare

Carolina Locust

Dissosteira carolina

Red-legged Grasshopper

Melanoplus femurrubrum

American Bird Grasshopper

Schistocerca americana

Carpenter Bee

Xylocopa virginica

Honey Bee

Apis mellifera

Calico Pennant (dragonfly)

Celithemis elisa

Halloween Pennant (dragonfly)

Celithemis eponina

Eastern Pondhawk

Erythemis simplicicollis

Blue Dasher

Pachydiplax longipennis

Violet-masked Glider

Tramea carolina

Citrine Forktail (damselfly)

Ischnura hastata

Obscure Rove Beetle

Atheta sp.

Flower Scarab Beetle

Trichostatus piger

Flat-headed Bald Cypress Borer

Aemacodera pulchella

Dermestid Beetle

Cryptorhopalum sp.

Tumbling Flower Beetle

Mordellistena pubescens

False Blister Beetle

Oryctolopis sp.

Short-horned Leaf Beetle

Saxinus omigera

Oval Leaf Beetle

Colaspis favosa

Flea Beetle

Disonychya caroliniana

Pear-shaped Weevil

Apion sp.

Minute Seed Weevil

Ceutorhynchus sp.

Black Swallowtail

Papilio polyxenes asterius

Eastern Tiger Swallowtail

Papilio glaucus

Spicebush Swallowtail

Papilio troilus

Palamedes Swallowtail

Papilio palamedes

Gray Hairstreak

Strymon melinus

Eastern Tailed-blue (butterfly)

Evers comyntas

Pearl Crescent

Polycloides tharos

American Lady (butterfly)

Vanessa virginiensis

Red Admiral

Vanessa atalanta rubria

Common Buckeye (butterfly)

Junonia cornia

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Viceroy; Mimic

Limenitis archippus

Duskywing Skipper

Erynnis sp.

Hummingbird Clearwing Moth

Hemaris thysbe

Immaculate Holometina Moth

Holometina immaculata

Oak Toad

Bufo quercicus

Southern Toad

Bufo terrestris

Pine Woods Treefrog

Hyla femoralis

Treefrog

Hyla sp.

Broadhead Skink

Eumeces laticeps

Six-lined Racerunner

Cnemidophorus sexlineatus

Turkey Vulture

Cathartes aura

Northern Bobwhite

Colinus virginianus

Mourning Dove

Zenaidura macroura

Yellow-billed Cuckoo

Coccyzus americanus

Red-headed Woodpecker

Melanerpes erythrocephalus

Northern Flicker

Colaptes auratus

Downy Woodpecker

Picoides pubescens

Pileated Woodpecker

Dryocopus pileatus

Great Crested Flycatcher

Myiarchus crinitus

Eastern Wood-pewee

Contopus virens

Willow Flycatcher (sign)

Empidonax traillii

Brown-headed Nuthatch

Sitta pusilla

Carolina Wren

Thryothorus ludovicianus

Blue-gray Gnatcatcher

Potioptila caerulea

Eastern Bluebird

Sialia sialis

Brown Thrasher

Toxostoma rufum

White-eyed Vireo

Vireo griseus

Prairie Warbler

Dendroica discolor

Pine Warbler

Dendroica pinus

Yellowthroat

Geothlypis trichas

Yellow-breasted Chat

Icteria virens

Northern Cardinal

Cardinalis cardinalis

Indigo Bunting

Passerina cyanea

Rufous-sided Towhee

Pipilo erythrophthalmus

Bachman's Sparrow

Ammodramus aestivalis

Chipping Sparrow

Spizella passerina

Brown-headed Cowbird

Molothrus ater

Orchard Oriole

Icterus spurius

Summer Tanager

Piranga rubra

Bobcat; Wildcat (tracks)

Felis rufus

Ervin Dargan Heritage Preserve and
Little Pee Dee River Heritage Preserve
Horry County
March 25, 1995

Ervin Dargan Heritage Preserve protects a floodplain area along the Little Pee Dee River that is relatively unspoiled. It is often affected by the water level, creating a very fertile swamp area rich in plants and animals. The insects are quite abundant as well. There are no formal trails but a road to a boat landing and a few old access roads provide easy walking.

Directions to Ervin Dargan Heritage Preserve: From Florence, take US 76/501 east toward Marion. When US 76 forks off toward Marion, continue southeast on US 501 toward Conway and Myrtle Beach about 15 miles to the Little Pee Dee River. Cross the bridge into Horry County and turn right at Gallivants Ferry (about 0.4 mile) onto S 26-99. In about a mile, fork right onto a dirt road at the sign to the public boat landing.

Little Pee Dee River Heritage Preserve is upstream from the Dargan Heritage Preserve, with similar floodplain habitat, plus xeric sandhill areas. The uncommon pyxie-moss was in bloom, and sphagnum, sundews, and loblolly-bay grew nearby. SCAN visited there in the afternoon after the morning at Dargan Heritage Preserve.

Directions to Little Pee Dee River Heritage Preserve: From Florence, take US 76 east through Marion to Mullins. Turn right (south) onto SC 917 and follow that to the Little Pee Dee River, about 5 miles. Cross the bridge into Horry County and watch for a sign to the Little Pee Dee River Heritage Preserve; turn left onto the dirt road shortly after the bridge.



FLORA

Lichen

Graphis scripta
Graphis insidiosa
Graphis sp.
Phaeographis dendritica
Brigitantia leucoxantha
Cladonia subtenais
Cladonia subtenais subtenais
Cladonia coniocraea
Cladonia cristatella
Cladonia didyma
Cladonia floerkeana
Cladonia leporina
Cladonia leporina leporina
Pertusaria neoscotica
Pertusaria leucostoma
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subpertusa
Pertusaria texana
Pertusaria velata
Pertusaria ophthalmiza
Pertusaria sp.
Haematomma puniceum
Lecanora cupressi
Lecanora caesiobubella f. *proliferata*
Ochrolechia africana
Phlyctis sp.
Bulbothrix goebelii
Bulbothrix isidica
Hypotrachyna livida
Parmelia horrescens
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema subtinctorium
Parmotrema tinctorum
Parmotrema ultralucens
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Rimelia subisidiosa
Usnea strigosa
Buellia punctata
Buellia curatellae

Buellia sp.
Physcia americana
Heterodermia obscurata
Heterodermia speciosa
Heterodermia spathulans sp. nov.
Pyxine caesiopruinosa
Trypethelium mastoideum
Trypethelium virens

Peat Moss

Sphagnum sp.

Floating Liverwort

Ricciocarpus natans

Sand Spikemoss

Selaginella arenicola

Bracken

Pteridium aquilinum

Netted Chain Fern

Woodwardia areolata

Long-leaf Pine

Pinus palustris

Loblolly Pine

Pinus taeda

Pond Pine

Pinus serotina

Bald-cypress

Taxodium distichum

Cane; Switch Cane

Arundinaria gigantea

Duckweed

Lemna sp.

Spanish-moss

Tillandsia usneoides

Bamboo Smilax

Smilax laurifolia

Sweet-scented Smilax

Smilax smallii

Willow

Salix sp.

Swamp Cottonwood

Populus heterophylla

Wax-myrtle; Southern Bayberry

Myrica cerifera

Tag Alder

Alnus serrulata

River Birch

Betula nigra

Turkey Oak

Quercus laevis

Spanish Oak

Quercus falcata

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Laurel Oak

Quercus laurifolia

Water-elm; Planer-tree

Planera aquatica

Mistletoe

Phoradendron serotinum

Alligator-weed

Alternanthera philaxeroides

Sweetbay

Magnolia virginiana

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Sundew

Drosera capillaris

Sweet-gum

Liquidambar styraciflua

Dewberry

Rubus trivialis

Red Chokeberry

Sorbus arbutifolia

Shadbush

Amelanchier canadensis

Shadbush; Serviceberry

Amelanchier sp.

Black Cherry; Wild Cherry

Prunus serotina

Cranesbill

Geranium carolinianum

Poison-ivy

Rhus radicans

Titi

Cyrtilla racemiflora

American Holly

Ilex opaca

Inkberry

Ilex glabra

Red Maple

Acer rubrum

Supple-jack; Rattan-vine

Berchemia scandens

Muscadine; Bullace

Vitis rotundifolia

Loblolly-bay

Gordonia lasianthus

Hypericum

Hypericum sp.

Primrose-leaved Violet

Viola primulifolia

Prickly-pear

Opuntia compressa

Water Pennywort

Hydrocotyle ranunculoides

Sweet Pepperbush

Clethra alnifolia

Fetterbush

Lysion lucida

Sparkleberry

Vaccinium arboreum

Elliott's Blueberry

Vaccinium ellipticum

Highbush Blueberry

Vaccinium corymbosum

Creeping Blueberry

Vaccinium cuneifolium

Blueberry

Vaccinium sp.

Sheep-laurel; Lamb-kill

Kalmia angustifolia

Ervin Dargan Heritage Preserve and
Little Pee Dee River Heritage Preserve (continued)
March 25, 1995

Pixie-moss <i>Pyxidanthra barbulator barbulator</i>	Common Baskettail (dragonfly) <i>Epiheca cynosura</i>
Storax; Snowbell <i>Syrax americana</i>	Baskettail Dragonfly <i>Epiheca sp.</i>
Yellow Jessamine <i>Gelsemium sempervirens</i>	Painted Skimmer <i>Libellula semifasciata</i>
Dodder <i>Cuscuta sp.</i>	Fragile Forktail (damselfly) <i>Ichnura posita</i>
Toadflax <i>Linaria canadensis</i>	Green Tiger Beetle <i>Cicindela sexguttata</i>
Trumpet Vine <i>Campsis radicans</i>	Crawling Water Beetle <i>Peltodytes sp.</i>
Japanese Honeysuckle <i>Lonicera japonica</i>	Predacious Diving Beetle <i>Hydroporus elypealis</i> <i>Hydroporus hybridus</i> <i>Hydroporus cinctoides</i> <i>Coptotomus interrogatus</i>
FAUNA	Whirligig Beetle <i>Dineutus emarginatus</i> <i>Gyrinus rockinghamensis</i>
Bowl-and-dolly Spider <i>Frontinella pyramitella</i>	Zebra Swallowtail <i>Euryides marcellus</i>
Fishing Spider <i>Dolomedes sp.</i>	Eastern Tiger Swallowtail <i>Papilio glaucus</i>
Stonefly <i>Isoperla bilineata</i>	Spring Azure (butterfly) <i>Celastrina ladon</i>
American Bird Grasshopper <i>Schistocerca americana</i>	Pearl Crescent <i>Phyciodes tharos</i>
Honey Bee <i>Apis mellifera</i>	American Lady (butterfly) <i>Vanessa virginianensis</i>
Bee Fly <i>Bombus sp.</i>	Polyphemus Moth (cocoon) <i>Antheraea polyphemus</i>
Springtime Darter <i>Basileichthys janata</i>	

Luna Moth <i>Actias luna</i>
Eastern Mudminnow <i>Umbra pygmaea</i>
Mummichog (fish) <i>Fundulus heteroclitus</i>
Southern Toad <i>Bufo terrestris</i>
Pine Woods Treefrog <i>Hyla femoralis</i>
Yellow-bellied Slider <i>Chrysemys scripta</i>
Carolina Anole <i>Anolis carolinensis</i>
Banded Water Snake <i>Nerodia fasciata</i>
Mallard <i>Anas platyrhynchos</i>
Turkey Vulture <i>Cathartes aura</i>
Black Vulture <i>Coragyps atratus</i>
Red-shouldered Hawk <i>Buteo lineatus</i>
Red-tailed Hawk <i>Buteo jamaicensis</i>
American Kestrel <i>Falco sparverius</i>
Barred Owl <i>Strix varia</i>
Chimney Swift <i>Chaetura pelagica</i>
Red-bellied Woodpecker <i>Melanerpes carolinus</i>
Tree Swallow <i>Tachycineta bicolor</i>

Fish Crow <i>Corvus ossifragus</i>
Ruby-crowned Kinglet <i>Regulus calendula</i>
Blue-gray Gnatcatcher <i>Polioptila caerulea</i>
Eastern Bluebird <i>Sialia sialis</i>
Hermit Thrush <i>Catharus guttatus</i>
American Robin <i>Turdus migratorius</i>
White-eyed Vireo (nest) <i>Vireo griseus</i>
Northern Parula <i>Parula americana</i>
Black-and-white Warbler <i>Mniotilta varia</i>
Yellow-rumped Warbler <i>Dendroica coronata</i>
Yellow-throated Warbler <i>Dendroica dominica</i>
Pine Warbler <i>Dendroica pinus</i>
Common Grackle <i>Quiscalus quiscula</i>
Raccoon (tracks) <i>Procyon lotor</i>
White-tailed Deer (tracks) <i>Odocoileus virginianus</i>

FOSSILS

Scallop <i>Pecten sp.</i>
Oyster <i>Ostrea sp.</i>

Lewis Ocean Bay Heritage Preserve

Horry County
May 25, 1990

This Heritage Preserve of about 6000 acres actually contains more than twenty Carolina bays, allowing it to protect the largest concentration of Venus'-fly-traps in the state. It also protects a large number of other wetlands habitat plants including several orchids and various carnivorous plants. Birds and insects abound as well.

Directions to Lewis Ocean Bay Heritage Preserve:

From downtown Conway, take BUS 501 southeast toward Myrtle Beach. (Do not take the US 501 Bypass, because it misses the correct intersection.) After crossing the bridge over the Waccamaw River, turn left at the traffic light onto SC 90 east. Drive about 6 miles and turn right onto International Road, a dirt road directly across from the White Horse Subdivision. Turn left at the first fork which is Kingston Road. Follow Kingston Road until it dead ends into Target Road. The entrance gate to Lewis Ocean Bay is located to the right.



FLORA

Fruticose Lichen

Cladonia evansii
Cladonia coniocraea
Cladonia didyma
Cladonia furcata
Cladonia leporina
Cladonia peziziformis
Cladonia rappii
Cladonia ramulosa
Parmotrema michauxianum
Parmotrema perforatum

Cinnamon Fern

Osmunda cinnamomea

Bracken

Pteridium aquilinum

Long-leaf Pine

Pinus palustris

Loblolly Pine

Pinus taeda

Pond Pine

Pinus serotina

Swordgrass; Bulrush

Scirpus americanus

Beak-rush

Rhynchospora intermixta
Rhynchospora plumosa
Rhynchospora megalocarpa
Rhynchospora rariflora

Nut-rush

Scleria ciliata

Sedge

Carex lurida

Yellow-eyed-grass

Xyris flabelliformis

Bog-buttons

Lachnocaulon sp.

Roseling; Spiderwort

Tradescantia rosea

Toad Rush

Juncus bufonius

Fringed Greenbrier

Smilax bona-nox

Bamboo Smilax

Smilax laurifolia

Bear-grass

Yucca filamentosa

Colic-root

Aletris farinosa

Black Snakeroot

Zigadenus densus

Redroot

Lachnanthes caroliniana

Flag

Iris tridentata

Spreading-pogonia

Cleistes divaricata

Bearded Grass-pink

Calopogon barbatus

Grass-pink

Calopogon pulchellus

Grass-leaved Ladies'-tresses

Spiranthes praecox

Wax-myrtle; Southern Bayberry

Myrica cerifera

Sand Live Oak

Quercus virginiana geminata

Turkey Oak

Quercus laevis

Blue-jack Oak

Quercus incana

Sweetbay

Magnolia virginiana

Redbay

Persea borbonia

Trumpet Pitcher-plant

Sarracenia flava

Frog's-britches

Sarracenia purpurea

Sundew

Drosera intermedia

Drosera capillaris

Venus'-fly-trap

Dionaea muscipula

Wild Indigo

Baptisia cinerea

Samson Snakeroot

Psoralea psoraloides

Polygala

Polygala grandiflora

Orange Milkwort

Polygala lutea

Tread-softly

Cnidocobolus stimulans

Inkberry

Ilex glabra

Sweet Gallberry

Ilex coriacea

Loblolly-bay

Gordonia lasianthus

Prickly-pear

Opuntia compressa

Smooth Meadow-beauty

Rhexia alifan

Marsh Parsley

Apium leptophyllum

Sweet Pepperbush

Clethra alnifolia

Maleberry

Lyonia ligustrina

Fetterbush

Lyonia lucida

Staggerbush

Lyonia mariana

Dwarf Huckleberry

Gaylussacia dumosa

Dangleberry

Gaylussacia frondosa

Low-bush Blueberry

Vaccinium tenellum

Creeping Blueberry

Vaccinium crassifolium

Water Pimpernel

Samolus parviflorus

Fog-fruit

Lippia nodiflora

Woolly Mullein

Verbascum thapsus

Wiry Bladderwort

Utricularia subulata

Lobelia

Lobelia nuttallii

Black-root

Pterocaulon pycnostachyum

Aster

Aster squarrosus

FAUNA

Tiger Beetle

Cicindela punctulata

Palamedes Swallowtail

Papilio palamedes

Common Buckeye (butterfly)

Junonia coenia

Oak Toad

Bufo quercicus

Six-lined Racerunner

Cnemidophorus sexlineatus

Turkey Vulture

Cathartes aura

Red-cockaded Woodpecker

Picoides borealis

Eastern Phoebe

Sayornis phoebe

Northern Parula

Parula americana

Prairie Warbler

Dendroica discolor

Pine Warbler

Dendroica pinus

Yellowthroat

Geothlypis trichas

Yellow-breasted Chat

Icteria virens

Indigo Bunting

Passerina cyanea

Rufous-sided Towhee

Pipilo erythrophthalmus

White-tailed Deer (tracks)

Odocoileus virginianus

FOSSILS

Sand-dollar

Mellita caroliniana

Exogyra Snail

Exogyra costata

Southern Moon Snail

Polinices duplicatus

Atlantic Slipper

Crepidula fornicata

Letticed Olive

Olivella sayana

Olive

Olivella mutica

Olivella caroliniae

Ark

Anadara aequicostata

Bittersweet Clam

Glycymeris americana

Glycymeris aratus

Mussel

Brachiodontes sp.

Scallop

Carolinapecten arboreus

Kitten's-paw

Plicanula marginata

Oyster

Crassostrea virginiana

Cardita Clam

Cyclocardia granulata

Astarte Clam

Astarte glenni

Gibb's Clam

Eucrasatella speciosa

Dwarf Surf Clam

Mulinia lateralis

Wedge Rangia

Rangia cuneata

Clam

Corbicula densata

Quahog Clam

Mercenaria sp.

Broad-ribbed Chione

Chione latilirata

Cross-barred Chione

Chione cancellata

Gouldia Shell

Gouldia metastriata



Venus'-fly-trap, *Dionaea muscipula*, eats a wolf spider.

(Photo by A. Cuglar)

Playcard Environmental Education Center

Horry County

September 15, 1990, and December 10, 1994

This environmental education center offers hands-on displays and demonstration areas that help school teachers and their students discover the need for a responsible approach to our environment. There are several interesting habitats accessed by short trails.

Some ponds have been set up to demonstrate the use of the Clemson Beaver Pond Leveler, a device which controls the water level in the ponds without triggering a beaver's natural instinct to stop the flow. Other demonstration areas were in the process of being developed.

Owned and operated by a private non-profit organization. Telephone: (843) 756-1277.

Directions to Playcard Environmental Education Center: From Florence, take US 76 east through Marion and Mullins to the Lumber River. Continue on US 76/SC 9 for 0.7 miles, and fork off to the right onto SC 9. About 11-12 miles after crossing the river, SC 9 bypasses the town of Green Sea. Turn right (south) onto Business SC 9/S 26-33. In about 2 miles (at Finkleas Crossroads) Business SC 9 turns to the left toward Loris; however continue straight ahead on S 26-33 for another 3 miles to Playcard Crossroads, the intersection of SC 19. Turn left onto SC 19 and go a short distance up the hill to the entrance on the right.



FLORA

Lichen

Graphis sp.
Cladonia caespiticia
Cladonia capitata
Cladonia coniocraea
Cladonia mateocarpa
Lecanora sp.
Bulbothrix goebelii
Hypogymnia krogiae
Hypotrachyna livida
Parmelia rudecta
Parmelia squarrosa
Parmelia sulcata
Parmelina dissecta
Parmelina galbana
Parmotrema cetratum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampodense
Parmotrema reticulatum
Parmotrema robustum
Parmotrema subintegratum
Pseudoparmelia caperata
Pseudoparmelia caroliniana
Umea strigosa
Physcia alpicola
Physcia americana
Physcia millegrana
Physcia sorediata
Physcia stellaris
Heterodermia albicans

Heterodermia casarettiana
Heterodermia echinata
Heterodermia obscurata
Heterodermia speciosa
Pyxine caesiopurpurea
Phaeophyscia imbricata
Anthracotheicum leucostomum
Pyrenula cruenta
Pyrenula pseudobufonia
Arthopyrenia lapponica
Trypethelium mastoideum
Trypethelium virens
Trypethelium floridanum
Peat Moss
Sphagnum sp.
Southern Grape Fern
Boerhaavia bismarckii
Cinnamon Fern
Osmunda cinnamomea
Bracken
Pteridium aquilinum
Southern Lady Fern
Asplenium adnigrum
Sensitive Fern
Onoclea sensibilis
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda

Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana
Bur-reed
Sparganium americanum
Cane; Switch Cane
Arundinaria gigantea
Uniola Grass
Uniola laxa
Grass
Uniola sp.
Rice Cut Grass
Leersia oryzoides
Giant Foxtail Grass
Setaria magna
Panic Grass
Panicum sp.
Broomsedge
Andropogon virginicus
Andropogon sp.
Dulichium (sedge)
Dulichium arundinaceum
Wool-grass
Scirpus cyperinus
Sedge
Carex glaucescens
Arrowleaf Arum
Peltandra virginica
Spanish-moss
Tillandsia usneoides
Asian Spiderwort
Ancilema krissak

Greenbrier; Bullbrier
Smilax rotundifolia
Fringed Greenbrier
Smilax bona-nox
Bamboo Smilax
Smilax laurifolia
Bear-grass
Yucca filamentosa
Bellwort
Uvularia pudica
Wild Yam
Dioscorea villosa
Flag; Iris
Iris sp.
Crane-fly Orchid
Tipularia discolor
Lizard's-tail
Saururus cernuus
Swamp Cottonwood
Populus heterophylla
Wax-myrtle; Southern Bayberry
Myrica cerifera
Swamp Bayberry
Myrica heterophylla
Mockernut Hickory
Carya tomentosa
Hickory
Carya sp.
Tag Alder
Alnus serrulata
White Oak
Quercus alba

Post Oak <i>Quercus stellata</i>	Groundnut <i>Apios americana</i>	Dog-hobble <i>Leucothoe axillaris</i>	American Elderberry <i>Sambucus canadensis</i>
Swamp Chestnut Oak <i>Quercus michauxii</i>	Cranesbill <i>Geranium carolinianum</i>	Coastal Honeybell <i>Leucothoe racemosa</i>	Cardinal-flower <i>Lobelia cardinalis</i>
Live Oak <i>Quercus virginiana</i>	Chinaberry <i>Melia azedarach</i>	Dangleberry <i>Gaylussacia frondosa</i>	Common Ragweed <i>Ambrosia artemisiifolia</i>
Red Oak <i>Quercus rubra</i>	Tread-softly <i>Cnidioscolus stimulosus</i>	Sparkberry <i>Vaccinium arboreum</i>	Gall-of-the-earth <i>Prenanthes serpentina</i>
Spanish Oak <i>Quercus falcata</i>	Poison Sumac <i>Rhus vernix</i>	Low-bush Blueberry <i>Vaccinium tenellum</i>	Ironweed <i>Vernonia angustifolia</i>
Water Oak <i>Quercus nigra</i>	Poison-ivy <i>Rhus radicans</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>	Elephant's-foot <i>Elephantopus tomentosus</i>
Willow Oak <i>Quercus phellos</i>	Winged Sumac <i>Rhus copallina</i>	Persimmon <i>Diospyros virginiana</i>	Elephantopus sp.
Red Mulberry <i>Morus rubra</i>	Titi <i>Cyrilla racemiflora</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	Thoroughwort <i>Eupatorium dubium</i>
False Nettle <i>Boehmeria cylindrica</i>	American Holly <i>Ilex opaca</i>	Bigleaf Snowbell <i>Syrax grandifolia</i>	Dog-fennel <i>Eupatorium capillifolium</i>
Mistletoe <i>Phoradendron serotinum</i>	Inkberry <i>Ilex glabra</i>	Chinese Privet <i>Ligustrum sinense</i>	Climbing Hempweed <i>Mikania scandens</i>
Heartleaf <i>Hexastylis arifolia</i>	Sweet Gallberry <i>Ilex coriacea</i>	Privet; Ligustrum <i>Ligustrum vulgare</i>	Marsh-fleabane <i>Pluchea rosea</i>
Lamb's-quarters; Pigweed <i>Chenopodium album</i>	Red Maple <i>Acer rubrum</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Pluchea foetida
Pokeweed; Pokeberry <i>Phytolacca americana</i>	Supple-jack; Rattan-vine <i>Berchemia scandens</i>	Compact Dodder <i>Cuscuta compacta</i>	Sea-myrtle; Groundsel-tree <i>Baccharis halimifolia</i>
Spatterdock; Yellow Pond-lily <i>Nuphar luteum</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Dodder <i>Cuscuta sp.</i>	Sweet Goldenrod <i>Solidago odora</i>
Water-lily <i>Nymphaea odorata</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Brazilian Vervain <i>Verbena brasiliensis</i>	Goldenrod <i>Solidago sp.</i>
Leather-flower <i>Clematis crispa</i>	Summer Grape <i>Vitis aestivalis</i>	White Vervain <i>Verbena urticifolia</i>	Beggar-ticks <i>Bidens frondosa</i>
Clematis <i>Clematis sp.</i>	Silky Camellia <i>Stewartia malacodendron</i>	Beautyberry <i>Callicarpa americana</i>	Spanish-needles <i>Bidens bipinnata</i>
Tulip-poplar <i>Liriodendron tulipifera</i>	Loblolly-bay <i>Gordonia lasianthus</i>	Skullcap <i>Scutellaria elliptica</i>	Headlike Cordyrops <i>Cordyrops capitata</i>
Sweetbay <i>Magnolia virginiana</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Common Henbit <i>Lamium amplexicaule</i>	Hypoxylon Canker <i>Hypoxylon sp.</i>
PawPaw <i>Asimina sp.</i>	St.-John's-wort <i>Hypericum walteri</i>	Stachys <i>Stachys sp.</i>	Black-knot <i>Apiosporina morbosa</i>
Redbay <i>Persea borbonia</i>	Prickly-pear <i>Opuntia compressa</i>	Dotted Horsemint <i>Monarda punctata</i>	Witches'-butter <i>Tremella mesenterica</i>
Sassafras <i>Sassafras albidum</i>	Meadow-beauty <i>Rhexia sp.</i>	Mountain Mint <i>Pycnanthemum muticum</i>	Spindle-shaped Yellow Coral <i>Clavulinopsis fusiformis</i>
Wild Radish <i>Raphanus raphanistrum</i>	Ludwigia <i>Ludwigia leptocarpa</i>	Lycopus <i>Lycopus rubellus</i>	Dry-rot Fungus <i>Serpula sp.</i>
Virginia-willow <i>Ita virginica</i>	Ludwigia pilosa <i>Ludwigia sp.</i>	False Foxglove <i>Aureolaria sp.</i>	Veil Bluespread <i>Pulcherrichium caeruleum</i>
Sweet-gum <i>Liquidambar styraciflua</i>	Blackgum <i>Nyssa sylvatica</i>	Cross Vine <i>Anisostichus capreolata</i>	Chicken Mushroom <i>Laetiporus sulphureus</i>
Witch-hazel <i>Hamamelis virginiana</i>	Swamp Tupelo; Swamp Blackgum <i>Nyssa sylvatica biflora</i>	Trumpet Vine <i>Campsis radicans</i>	Turkey-tail <i>Trametes versicolor</i>
American Sycamore <i>Platanus occidentalis</i>	Flowering Dogwood <i>Cornus florida</i>	Bladderwort <i>Utricularia biflora</i>	Crowded Parchment <i>Stereum complicatum</i>
Blackberry; Brambles <i>Rubus sp.</i>	Sweet Pepperbush <i>Clethra alnifolia</i>	Ruellia <i>Ruellia carolinensis</i>	False Turkey-tail <i>Stereum austrea</i>
Red Chokeberry <i>Sorbus arbutifolia</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Button-bush <i>Cephalanthus occidentalis</i>	Silky Parchment <i>Stereum striatum</i>
Black Cherry; Wild Cherry <i>Prunus serotina</i>	Indian-pipe <i>Monotropa uniflora</i>	Partridge-berry <i>Mitchella repens</i>	Red-tinged Leptota <i>Leptota rubroincta</i>
Mimosa; Silk-tree <i>Albizia julibrissin</i>	Piedmont Azalea <i>Rhododendron canescens</i>	Japanese Honey-suckle <i>Lonicera japonica</i>	Cleft-foot Amanita <i>Amanita brassicacea</i>
Wild Sensitive-plant <i>Cassia nictitans</i>	Pinxter-flower; Pinxter-bloom <i>Rhododendron nudiflorum</i>	Coral Honey-suckle <i>Lonicera sempervirens</i>	Citron Amanita <i>Amanita citrina</i>
Wild Indigo <i>Indigofera caroliniana</i>	Fetterbush <i>Lyonia lucida</i>	Possumhaw Viburnum <i>Viburnum nudum</i>	Slippery-Jack <i>Suillus laevis</i>
			Chanterelle Waxy-cap <i>Hygrophorus cantharellus</i>

**Playcard Environmental
Education Center (continued)
September 15, 1990, and December 10, 1994**

Emetic Russula
Russula emetica
Fragile Russula
Russula fragilis
Booted Collybia
Collybia peronata
Oyster Mushroom
Pleurotus ostreatus
Mini Puffball
Lycoperdon pusillum
Columned Stinkhorn
Clathrus columnatus

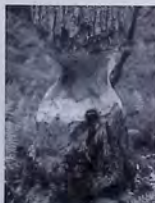
FAUNA

Pregnant Gingernail Clam
Sphaerium parvum
Crab-shaped Spiny-back
Gasteracantha cancriformis
Spiny-backed Spider
Micrathena gracilis
Orchard Spider
Leucauge venusta
Banded Garden Spider
Argiope trifasciata
Basilica Spider
Mecynogea lemniscata
Orb-weaver
Neotoma hantz
Arrowhead Spider
Verrucosa arenata
Long-jawed Orb-weaver
Tetragnatha laboriosa
Six-spotted Fishing Spider
Dolomedes triton
Rabid Wolf Spider
Lycosa rabida
Green Lynx Spider
Psecutia viridans
Common Meadow Katydid
Orchelimum vulgare
Short-tailed Cricket
Acanthogryllus muticus
Field Cricket
Gryllus sp.
Woolly Alder Aphid
Prociphilus tessellatus
Blackberry Knot Gall (wasp)
Diastrophus nebulosus
False Nettle Stem Gall (midge)
Cecidomyia bockmeriae
Cypress Leaf Gall (midge)
Isonida taxodii
Eastern Pondhawk
Erythemis simplicicollis
Blue Dasher
Pachydiplax longipennis
Searcher; Ground Beetle
Carabus vinctus

Dingy Ground Beetle
Harpalus caliginosus
Harpalus pennsylvanicus
Anisodactylus sayi
Notch-mouthed Ground Beetle
Dicaeolus ovalis
Crawling Water Beetle
Peltodytes sp.
Predacious Diving Beetle
Ceptotomus interrogatus
Burrowing Water Beetle
Hydrocanthus oblongus
Whirligig Beetle
Gyrinus borealis
Water Scavenger Beetle
Tropisternus quadristriatus
quadristriatus
Rove Beetle
Oxytelus sp.
Omalius sp.
Crab-like Rove Beetle
Lordithous pygmaeus
Tachinus sp.
Small Carrion Beetle
Catops sp.
Hister Beetle
Margaritorius sp.
Dung Beetle
Copris carolina
Phanaeus vindex
Phanaeus nigrocyanus
Onthophagus hecate
Onthophagus janus
Skin Beetle
Trux tuberculatus

Darkling Beetle
Hoplocephala viridipennis
Platyedema excavatum
Sap-feeding Beetle
Carpophilus sp.
Minute Tree-fungus Beetle
Xestocis sp.
Flea Beetle
Altica maregalis
Eastern Tiger Swallowtail
Papilio glaucus
Palamedes Swallowtail
Papilio palamedes
Cloudless Sulphur
Phoebis sennae eubule
Silver-spotted Skipper
Epargyreus clarus
Long-tailed Skipper
Urbanus proteus
Evergreen Bagworm Moth
Thyridopteryx ephemeraeformis
Saddleback Caterpillar (larva)
Sibine stimulea
Sweetbay Silkmoth (cocoon)
Callosamia securifera
Azalea Hand-maid Moth (larva)
Datana major
Southern Toad
Bufo terrestris
Green Treefrog
Hyla cinerea
Carolina Anole
Anolis carolinensis
Ground Skink
Scincella lateralis
Great Blue Heron
Ardea herodias
Wood Duck
Aix sponsa

Turkey Vulture
Cathartes aura
Red-tailed Hawk
Buteo jamaicensis
Red-bellied Woodpecker
Melanerpes carolinus
Red-headed Woodpecker
Melanerpes erythrocephalus
Downy Woodpecker
Picoides pubescens
Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
Blue Jay
Cyanocitta cristata
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
White-breasted Nuthatch
Sitta carolinensis
Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula
Eastern Bluebird
Sialia sialis
American Robin
Turdus migratorius
Cedar Waxwing
Bombycilla cedrorum
Yellow-rumped Warbler
Dendroica coronata
Pine Warbler
Dendroica pinus
Beaver (gnaw mark)
Castor canadensis



(Photo by L. Greenlee)
Beavers, *Castor canadensis*, are
evident at Playcard.



(Photo by L. Greenlee)
Green treefrog, *Hyla cinerea*.

Southern Aggregate Coquina Mine Horry County December 12, 1992

Many marine fossils have been exposed here in the process of mining the earth for building materials. Because it is a very disturbed site, only a few notable observations of living fauna were recorded. The fossils were diverse and relatively plentiful in the areas visitors could safely access on this particular day. The identification assistance from Aura Baker of Myrtle Beach and Lyle Campbell of Spartanburg was much appreciated.

Privately owned and currently closed. Not accessible to collectors. No map or directions are included.

FAUNA

Black Widow
Latrodectus mactans
Writing Spider
Argiope sp.
American Bird Grasshopper
Schistocerca americana
Fire Ant
Solenopsis sp.
Cloudless Sulphur
Phoebis sennae eubule
Carolina Anole
Anolis carolinensis
Great Blue Heron
Ardea herodias
Turkey Vulture
Cathartes aura
Yellow-bellied Sapsucker
Sphyrapicus varius
Raccoon
Procyon lotor
White-tailed Deer
Odocoileus virginianus

FOSSILS

Turritella Snail
Turritella perexilis
Marine Snail
Turritella sp.
Sand-dollar
Mellita caroliniana
Tagelus
Tagelus gibbus
Whelk
Busycon carica amoena
Lightning Whelk
Busycon contrarium
Whelk
Busycon maximum
Exogyra Snail
Exogyra costata
Atlantic Slipper
Crepidula fornicata

Olive

Oliva carolinensis
Cone Shell
Conus adversarius
Conus waccamawensis
Ark
Anadara lienosa
Bittersweet Clam
Glycymeris americana
Glycymeris pectinata
Scallop
Argopecten vicenarius
Carolinapecten solarioides
Pecten brouweri
Oyster
Crassostrea virginica
Ostrea lawrencei
Cardita Clam
Cyclocardia granulata
Astarte Clam
Astarte concentrica

Gibb's Clam

Eucrasstellata speciosa
Dwarf Surf Clam
Mulinia lateralis
Rangia Clam
Rangia clathrodonta
Clam
Corbicula densata
Hard-shelled Clam
Mercenaria campechiensis
Cross-barred Venus
Chione cribraria
Sand Shark
Odontaspis sp.
Ground Shark (tooth)
Carcharhinus sp.
Modern Great White Shark
Carcharodon carcharias
Mackerel Shark
Lamna sp.
Horse
Equus leidy

(Photo by B. Gilbert)

Fossil casts of gastropods are typical of South Carolina fossil deposits.





Jasper County

Savannah National Wildlife Refuge

Jasper County

December 12, 1987

Birds, huge alligators, butterflies and dragonflies all flourish at this wildlife refuge. The largest number of birds is seen on winter trips, especially waterfowl and wading birds, for which the old rice fields at the refuge are managed. Because this area has been altered extensively by planting crops and animal attractants, the flora is not unusual. However, naturalized and exotic ornamental plants survive around old home sites here, such as the Chinese parasol-tree. The refuge has a road with an auto tour or you may walk the many farm roads and dikes for better views of the birds and other animals.

Directions to Savannah National Wildlife Refuge:

Take I-95 south from Walterboro toward Georgia. At Exit 5 near Hardeeville, take US 17 south toward Savannah. Drive 4.5 miles and then go straight ahead on SC 170 where US 17 diverges to the left. In about 1-2 miles you will pass a large marsh on the right and come to an intersection with the Refuge Headquarters on the right and the parking area on the left; turn in to the left. The Wildlife Drive starts just beyond the parking area.



FLORA

Slash Pine

Pinus elliotii

Pond-cypress

Taxodium ascendens

Common Cat-tail

Typha latifolia

Cane; Switch Cane

Arundinaria gigantea

Southern Wild Rice

Zizaniopsis miliacea

Green Foxtail Grass

Setaria viridis

Opilismenus (grass)

Opilismenus setarius

Dwarf Palmetto

Sabal minor

Spanish-moss

Tillandsia usneoides

Sweet-scented Smilax

Smilax smallii

Swamp Willow

Salix caroliniana

Wax-myrtle; Southern Bayberry

Myrica cerifera

Live Oak

Quercus virginiana

Sugarberry; Hackberry

Celtis laevigata

Red Mulberry

Morus rubra

Sweet-gum

Liquidambar styraciflua

Dewberry

Rubus trivialis

Carolina Cherry Laurel

Prunus caroliniana

Sicklepod

Cassia obtusifolia

Bladderpod

Glottidium vesicarium

Chinaberry

Melios aederauch

Chinese Tallow-tree

Sapium sebiferum

Winged Sumac

Rhus copallina

American Holly

Ilex opaca

Yaupon

Ilex vomitoria

Red Maple

Acer rubrum

Rose Mallow; Wild Cotton

Hibiscus moscheutos

China Parasol-tree

Firmiana platanifolia

Periwinkle

Vinca major

Brazilian Vervain

Verbena braziliensis

Button-bush

Cephalanthus occidentalis

Japanese Honeysuckle

Lonicera japonica

American Elderberry

Sambucus canadensis

Elephant's-foot

Elephantopus carolinianus

Dog-fennel

Eupatorium capillifolium

False-willow

Baccharis angustifolia

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

Rayless Goldenrod

Chondrophora nudata

FAUNA

Eastern Boxelder Bug

Leptocoris trivittatus

Cloudless Sulphur

Phoebastria sennae eubule

Gulf Fritillary

Agraulis vanillae

American Alligator

Alligator mississippiensis

Yellow-bellied Slider

Chrysemys scripta

Cooter

Chrysemys sp.

Eastern Kingsnake

Lampropeltis getulus

Pied-billed Grebe <i>Podilymbus podiceps</i>	Northern Pintail <i>Anas acuta</i>	Red-tailed Hawk <i>Buteo jamaicensis</i>	Loggerhead Shrike <i>Lanius ludovicianus</i>
Anhinga; Snakebird <i>Anhinga anhinga</i>	Northern Shoveler <i>Anas clypeata</i>	Belted Kingfisher <i>Ceryle alcyon</i>	Northern Mockingbird <i>Mimus polyglottos</i>
Double-crested Cormorant <i>Phalacrocorax auritus</i>	Ruddy Duck <i>Oxyura jamaicensis</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>	Brown Thrasher <i>Taxostoma rufum</i>
Green-backed Heron <i>Butorides striatus</i>	Wood Duck <i>Aix sponsa</i>	Downy Woodpecker <i>Picoides pubescens</i>	European Starling <i>Sturnus vulgaris</i>
Little Blue Heron <i>Egretta caerulea</i>	Canvasback <i>Aythya valisineria</i>	Eastern Phoebe <i>Sayornis phoebe</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Great Egret <i>Casmerodius albus</i>	Ring-necked Duck <i>Aythya collaris</i>	Tree Swallow <i>Ichneuteles bicolor</i>	Sharp-tailed Sparrow <i>Ammodramus caudatus</i>
Great Blue Heron <i>Ardea herodias</i>	Lesser Scaup <i>Aythya affinis</i>	Blue Jay <i>Cyanocitta cristata</i>	Song Sparrow <i>Melospiza melodia</i>
Glossy Ibis <i>Plegadis falcinellus</i>	Common Moorhen <i>Gallinula chloropus</i>	American Crow <i>Corvus brachyrhynchos</i>	Dark-eyed Junco <i>Junco hyemalis</i>
White Ibis <i>Eudocimus albus</i>	American Coot <i>Fulica americana</i>	Carolina Chickadee <i>Parus carolinensis</i>	Eastern Meadowlark <i>Sturnella magna</i>
Snow Goose <i>Chen caerulescens</i>	Killdeer <i>Charadrius vociferus</i>	House Wren <i>Troglodytes aedon</i>	Red-winged Blackbird <i>Agelaius phoeniceus</i>
Blue Goose <i>Chen caerulescens</i>	Forster's Tern <i>Sterna forsteri</i>	Golden-crowned Kinglet <i>Regulus satrapa</i>	Common Grackle <i>Quiscalus quiscula</i>
Mallard <i>Anas platyrhynchos</i>	Turkey Vulture <i>Cathartes aura</i>	Ruby-crowned Kinglet <i>Regulus calendula</i>	Boat-tailed Grackle <i>Quiscalus major</i>
Green-winged Teal <i>Anas crecca</i>	Bald Eagle <i>Haliaeetus leucocephalus</i>	Blue-gray Gnatcatcher <i>Poliopelia caerulea</i>	Hispid Cotton Rat (tracks) (sign) <i>Sigmodon hispidus</i>
American Wigeon <i>Anas americana</i>	Northern Harrier <i>Circus cyaneus</i>	American Robin <i>Turdus migratorius</i>	Gray Fox (scat) <i>Urocyon cinereoargenteus</i>

Tillman Sand Ridge Heritage Preserve

Jasper County

July 28, 1990

This sandy area is one of the few sites in South Carolina that is home to the gopher tortoise. There are several plants that are limited to this type of habitat as well. It is a very hot, dry environment and both plants and animals have developed ways to cope. The gopher tortoise digs a large burrow several feet deep. Consequently, a variety of other animals share the burrow to escape from the heat of the sun, or escape from the regular wildfires that occur. These fires maintain this habitat, and are very important to the ecology of the region. The turkey oak, which is a dominant tree on this site, can turn its leaves vertically to escape the direct rays of the sun above and heat reflected from the white sands below. The flora-fauna list produced from this field trip is the result of a short one hour visit after a more extended visit at nearby Webb Wildlife Center in Hampton County.

Directions to Tillman Sand Ridge Heritage Preserve: From Columbia, take US 321 south through Fairfield and Estill to Garnett, about 100 miles. In Garnett, take the right fork onto SC 119; the Post Office is on the left at the intersection. Continue south 4.8 miles farther, then turn left (east) onto County Road S 27-119 toward Tillman. The Heritage Preserve is on the right in about 5 miles, marked with an inconspicuous green sign.



Tillman Sand Ridge Heritage Preserve (continued)
July 28, 1990

FLORA**Lichen**

Cladonia evansii
Cladonia apodocarpa
Cladonia capitata
Cladonia coniocraea
Cladonia cylindrica
Cladonia subradiata
Bulbostylis goebelii
Hypotrachyna livida
Parmelia rudecta
Parmelia sp.
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema rampoddense
Parmotrema reticulatum
Parmotrema rigidum
Parmotrema robustum
Pseudoparmelia caperata
Pseudoparmelia caroliniana
Xanthoparmelia subramigena

Canoparmelia amazonica
Rimelia subdisidia
Ramalina willeyi
Usnea strigosa
Heterodermia obscurata
Pysine caesiopruinosa
Phaeophyscia ciliata

Long-leaf Pine

Pinus palustris

Slash Pine

Pinus elliotii

Wiregrass

Aristida stricta

Bulbostylis (sedge)

Bulbostylis wari

Beak-rush

Rhynchospora graysii

Saw Palmetto

Serenoa repens

White Oak

Quercus alba

Post Oak

Quercus stellata

Turkey Oak

Quercus laevis

Gopher-apple

Chrysobalanus oblongifolius

Wild Indigo

Indigofera caroliniana

Tephrosia

Tephrosia sp.

Crotonopsis

Crotonopsis linearis

Queen's-delight

Siallingia sylvatica

Prickly-pear

Opuntia compressa

Pale Meadow-beauty

Rhexia mariana

Blue-star

Amsonia ciliata

Sandhill Milkweed

Asclepias humistrata

Bonamia

Bonamia humistrata

Skullcap

Scutellaria sp.

Ironweed

Vernonia angustifolia

Blazing-star

Liatris sp.

Black-eyed-Susan

Rudbeckia hirta

FAUNA**Oval Leaf Beetle**

Metachroma pallidum

Flower Weevil

Centrinaspis griseus

Gopher Tortoise

Gopherus polyphemus

Turkey Vulture

Cathartes aura

Rufous-sided Towhee

Pipilo erythrophthalmus

Raccoon (bones)

Procyon lotor

White-tailed Deer (tracks)

Odocoileus virginianus



Kershaw County

Boykin Mill Pond

Kershaw County

June 28, 1986

One of the largest inland wading bird rookeries in South Carolina is Boykin Mill Pond. The pond, created in the 1830's, has a good stand of cypress which provides the nesting sites for the birds. As the list shows, the residents are numerous. This trip was highlighted by the use of several spotting scopes, so good views of adult birds and their nests were seen by all who attended without disturbing the birds. Flying overhead were flocks of adults heading out and returning from foraging – an impressive sight. The large number of other birds seen indicated the openness of the farm land in the immediate area of the pond. This site is no longer accessible except from public roadside. One can still watch the overhead flights of the birds, however.

Directions to Boykin Mill Pond: From Camden, take US 521 south toward Sumter; go under I-20, and after 2 miles bear right onto SC 261. Go 4 miles, crossing Swift Creek, and turn left onto Boykin Mill Road (county road S 28-2).

FLORA**Bracken**

Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Netted Chain Fern
Woodwardia arcolata
Ebony Spleenwort
Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Loblolly Pine

Pinus taeda

Bald-cypress

Taxodium distichum

Pond-cypress

Taxodium ascendens

Common Cat-tail

Typha latifolia

Cane; Switch Cane

Arundinaria gigantea

Southern Wild Rice

Zizaniopsis miliacea

Spike-rush

Eleocharis equisetoides

Wool-grass

Scirpus cyperinus

Arrowleaf Arum

Peltandra virginica

Giant Duckweed

Spirodela punctata

Bogmat

Wolffella floridana

Pickereelweed

Pontederia cordata

Soft Rush

Juncus effusus

Path Rush

Juncus tenuis

Sawbrier; Greenbrier

Smilax glauca

Lizard's-tail

Saururus cernuus

Black Willow

Salix nigra

Wax-myrtle; Southern Bayberry

Myrica cerifera

Tag Alder

Alnus serrulata

Post Oak

Quercus stellata

Water Oak

Quercus nigra

American Elm

Ulmus americana

Winged Elm

Ulmus alata

Sugarberry; Hackberry

Celtis laevigata

Red Mulberry

Morus rubra

False Nettle

Boehmeria cylindrica

Pokeweed; Pokeberry

Physalis americana

Spatterdock; Yellow Pond-lily

Nuphar luteum

Water-lily

Nymphaea odorata

Water-shield

Brasenia schreberi

Sweetbay

Magnolia virginiana

Sassafras

Sassafras albidum

Sweet-gum

Liquidambar styraciflua

Blackberry; Brambles

Rubus sp.

Cherokee Rose

Rosa laevigata

Southern Crabapple

Malus angustifolia

Black Cherry; Wild Cherry

Prunus serotina

Mimosa; Silk-tree

Albizia julibrissin

Pencil-flower

Stylosanthes biflora

Tephrosia

Tephrosia spicata

Climbing Butterfly-pea

Centrosema virginianum

Kudzu

Pueraria lobata

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

Titi

Cyrtilla racemiflora

Boxelder

Acer negundo

Red Maple

Acer rubrum

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Pepper-vine

Ampelopsis arborea

Devil's-shoestring

Sida rhombifolia

St.-Andrew's-cross

Hypericum hypericoides

Pin-weed

Lechea villosa

Water Loosestrife

Decodon verticillatus

Water-milfoil

Myriophyllum heterophyllum

Blackgum

Nyssa sylvatica

Swamp Tupelo; Swamp Blackgum

Nyssa sylvatica biflora

Water Tupelo

Nyssa aquatica

Fetterbush

Lyonia lucida

Coastal Honeybells

Leucothoe racemosa

Blueberry

Vaccinium sp.

Storax; Snowbell

Syrax americana

Yellow Jessamine

Gelsemium sempervirens

Polypremum

Polypremum procumbens

Small Floating-heart

Nymphoides cordata

Floating-heart

Nymphoides aquatica

Ground-ivy; Ponyfoot

Dichondra carolinensis

Brazilian Vervain

Verbena braziliensis

Beautyberry

Callicarpa americana

Carpenterweed

Prunella vulgaris

Horse-nettle

Solanum carolinense

Blue Water-hyssop

Bacopa caroliniana

Woolly Mullein

Verbascum thapsus

Trumpet Vine

Campsis radicans

Purple Bladderwort

Utricularia purpurea

Bladderwort

Utricularia biflora

English Plantain

Plantago lanceolata

Bracted Plantain

Plantago aristata

Button-bush

Cephalanthus occidentalis

Virginia Buttonweed

Diodia virginiana

American Elderberry

Sambucus canadensis

Wahlenbergia

Wahlenbergia marginata

Wild Lettuce

Lactuca canadensis

Small's Ragwort

Senecio smallii

Elephant's-foot

Elephantopus sciolianus

Sea-myrtle; Groundsel-tree

Baccharis halimifolia

FAUNA

Common Eastern Velvet-ant

Dasyneura occidentalis

Cypress Twig Gall (midge)

Thecodiplosis ananasi

Cypress Flower Gall (midge)

Ionida anthici

Banded Pennant (dragonfly)

Celithemis fasciata

Eastern Pondhawk

Erythemis simplicicollis

Blue Dasher

Pachydiplax longipennis

Eastern Amberwing (dragonfly)

Perithemis tenera

White-tail Dragonfly

Plathemis lydia

Violet-masked Glider

Tramea carolina

Eastern Tiger Swallowtail

Papilio glaucus

Sleepy Orange (butterfly)

Eurema nicippe

Pearl Crescent

Phyciodes tharos

Common Buckeye (butterfly)

Junonia coenia

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Silver-spotted Skipper

Epargyreus clarus

Southern Cricket Frog

Acris gryllus

Bullfrog

Rana catesbeiana

Green Frog; Bronze Frog

Rana clamitans

Carpenter Frog

Rana virgatipes

American Alligator

Alligator mississippiensis

Carolina Anole

Anolis carolinensis

Anhinga; Snakebird

Anhinga anhinga

Green-backed Heron

Butorides striatus

Little Blue Heron

Egretta caerulea

Boykin Mill Pond (continued)

June 28, 1986

Snowy Egret

Egretta thula

Cattle Egret

Bulbicus ibis

Great Egret

Casmerodius albus

Great Blue Heron

Ardea herodias

Glossy Ibis

Plegadis falcinellus

White Ibis

Eudocimus albus

Common Moorhen

Gallinula chloropus

Ruby-throated Hummingbird

Archilochus colubris

Northern Rough-winged Swallow

Stelgidopteryx serripennis

Barn Swallow

Hirundo rustica

American Crow

Corvus brachyrhynchos

Fish Crow

Corvus ossifragus

Northern Cardinal

Cardinalis cardinalis

Rufous-sided Towhee

Pipilo erythrophthalmus

Red-winged Blackbird

Agelaius phoeniceus

Summer Tanager

Piranga rubra

(Photo by A. Ciegler)
Immature little blue heron, *Egretta caerulea*.



(Photo by A. Ciegler)
White ibis, *Eudocimus albus*.

Goodale State Park

Kershaw County

October 26, 1991

Goodale is a small, underused park featuring classic sandhills habitats plus a very old mill pond with a large stand of pond cypress and other shallow pond aquatic species. There are some seepage areas that have additional carnivorous plants, and the back side of the dam has a nice population of Atlantic white-cedar. The nature trails wind through sand ridges and lower, more wet habitats, offering a wide variety of native material to be seen. This list represents about a half-day exploration.

Directions to Goodale State Park: From Columbia, take I-20 east toward Florence, and turn north onto US 521 at Exit 98 to Camden. In the center of town, turn right (north) onto US 1 toward McBee. Drive 3.2 miles on US 1 to Old Wire Road (S 28-15) and turn right. Go 2.4 miles and turn left onto S 28-331. The park entrance is on the right and marked by signs.

FLORA

Lichen

Graphis scripta
Lecidea rasilula
Cladonia calycantha
Cladonia capitata
Cladonia chlorophaea
Cladonia cristatella vestita
Cladonia didyma
Cladonia leporina
Cladonia polycarpoides
Cladonia ravenelii
Pertusaria oziolata
Pertusaria paratuberculifera

Pertusaria texana
Pertusaria tetrathalpia
Pertusaria sp.
Haematomma puniceum
Lecanora miculata
Lecanora cupressi
Lecanora pallida
Lecanora pallida cancriformis
Lecanora varia
Lecanora allophana
Ochrolechia africana
Bulbostrix goebelii
Candelaria concolor
Cetraria sp.
Hypotrachyna livida



Parmelia aurulenta
Parmelia horrescens
Parmeliopsis subambigua
Parmotrema cetratum
Parmotrema crinitum
Parmotrema euryzium
Parmotrema hypotropum
Parmotrema mellissii
Parmotrema michauxianum
Parmotrema perforatum

Parmotrema praesorediosum
Parmotrema subsidiosum
Parmotrema subtrictum
Parmotrema tinctorum
Parmotrema ultralucens
Parmotrema xanthinum
Parmotrema sp.
Pseudoparmelia amazonica
Pseudoparmelia caperata
Pseudoparmelia caroliniana

<i>Punctelia hypoleucites</i>	Wax-myrtle; Southern Bayberry	Red Maple	Eupatorium
<i>Ramalina americana</i>	<i>Myrica cerifera</i>	<i>Acer rubrum</i>	<i>Eupatorium</i> sp.
<i>Usnea ceratina</i>	Mockernut Hickory	Virginia-creeper	Sea-myrtle; Groundsel-tree
<i>Usnea rubicunda</i>	<i>Carya tomentosa</i>	<i>Parthenocissus quinquefolia</i>	<i>Baccharis halimifolia</i>
<i>Usnea strigosa</i>	Post Oak	Muscadine; Bullace	Horseweed; Mare's-tail
<i>Usnea trichodea</i>	<i>Quercus stellata</i>	<i>Vitis rotundifolia</i>	<i>Erigeron canadensis</i> sp.
<i>Buellia punctata</i>	Scrubby Post Oak	St.-Andrew's-cross	Aster
<i>Buellia caloosensis</i>	<i>Quercus margarettae</i>	<i>Hypericum hypericoides</i>	<i>Aster dumosus</i>
<i>Buellia curtisii</i>	Turkey Oak	Pineweed	Sweet Goldenrod
<i>Physcia alpicola</i>	<i>Quercus laevis</i>	<i>Hypericum gentianoides</i>	<i>Solidago odora</i>
<i>Physcia millegrana</i>	Spanish Oak	Prickly-pear	Rough-leaved Goldenrod
<i>Heterodermia albicans</i>	<i>Quercus falcata</i>	<i>Opuntia compressa</i>	<i>Solidago rugosa</i>
<i>Heterodermia obscurata</i>	Black Jack Oak	Black Tupelo; Blackgum	Goldenrod
<i>Heterodermia casarettiana</i>	<i>Quercus marilandica</i>	<i>Nyssa sylvatica sylvatica</i>	<i>Solidago microcephala</i>
<i>Pyxine caesiopruinosa</i>	Water Oak	Swamp Tupelo; Swamp Blackgum	Heterotheca
<i>Phaeophyscia rubropulchra</i>	<i>Quercus nigra</i>	<i>Nyssa sylvatica biflora</i>	<i>Heterotheca graminifolia</i>
<i>Physconia detersa</i>	Blue-jack Oak	Flowering Dogwood	Camphorweed
<i>Physconia enteroxantha</i>	<i>Quercus incana</i>	<i>Cornus florida</i>	<i>Heterotheca subaxillaris</i>
<i>Xanthoria candelaria</i>	Winged Elm	Sweet Pepperbush	
<i>Trypethelium virens</i>	<i>Ulmus alata</i>	<i>Clethra alnifolia</i>	FAUNA
Slender Clubmoss	Cottonweed	Spotted Wintergreen	Crab-shaped Spiny-back
<i>Lycopodium carolinianum</i>	<i>Fraeclichia gracilis</i>	<i>Chimaphila maculata</i>	<i>Gasteracantha cancriformis</i>
Royal Fern	Water-lily	Fetterbush	Marbled Orb-weaver
<i>Ornunda regalis spectabilis</i>	<i>Nymphaea odorata</i>	<i>Lyonia lucida</i>	<i>Araneus marmoreus</i>
Bracken	<i>Brasenia schreberi</i>	Sparkleberry	Common Meadow Katydid
<i>Pteridium aquilinum</i>	Tulip-poplar	<i>Vaccinium arboreum</i>	<i>Orchelimum vulgare</i>
Netted Chain Fern	<i>Liriodendron tulipifera</i>	Highbush Blueberry	Cattail Toothpick Grasshopper
<i>Woodwardia areolata</i>	Sweetbay	<i>Vaccinium corymbosum</i>	<i>Leptysma marginicollis</i>
Ebony Spleenwort	<i>Magnolia virginiana</i>	Persimmon	American Bird Grasshopper
<i>Asplenium platyneuron</i>	Southern Magnolia	<i>Diospyros virginiana</i>	<i>Schistocerca americana</i>
Resurrection Fern	<i>Magnolia grandiflora</i>	Horse-sugar; Sweetleaf	Antlion; Doodlebug
<i>Polypodium polypodioides</i>	Redbay	<i>Symplocos tinctoria</i>	<i>Myrmeleon immaculatus</i>
Long-leaf Pine	<i>Persea borbonia</i>	Chinese Privet	Eastern Pondhawk
<i>Pinus palustris</i>	Sassafras	<i>Ligustrum sinense</i>	<i>Erythemis simplicicollis</i>
Loblolly Pine	<i>Sassafras albidum</i>	Privet; Ligustrum	Blue Dragonlet
<i>Pinus taeda</i>	Sundew	<i>Ligustrum</i> sp.	<i>Erythrodiplex minuscula</i>
Bald-cypress	<i>Drosera leucantha</i>	Yellow Jessamine	White-tail Dragonfly
<i>Taxodium distichum</i>	<i>Drosera intermedia</i>	<i>Gelsemium sempervirens</i>	<i>Plathemis lydia</i>
Pond-cypress	Sweet-gum	Beautyberry	Spreading Damselfly
<i>Taxodium ascendens</i>	<i>Liquidambar styraciflua</i>	<i>Callicarpa americana</i>	<i>Lestes</i> sp.
Atlantic White-cedar	Blackberry; Brambles	Blue-curls	Variable Dancer (damselfly)
<i>Chamaecyparis thyoides</i>	<i>Rubus</i> sp.	<i>Trichostema dichotomum</i>	<i>Argia fumipennis</i>
Eastern Red-cedar	Red Chokeberry	Dotted Horsemint	Tiger Beetle
<i>Juniperus virginiana</i>	<i>Sorbus arbutifolia</i>	<i>Monarda punctata</i>	<i>Cicindela scutellaris unicolor</i>
Common Cat-tail	Hawthorn	Blue Water-hyssop	Cloudless Sulphur
<i>Typha latifolia</i>	<i>Crataegus</i> sp.	<i>Bacopa caroliniana</i>	<i>Phoebastria senae eubule</i>
Cane; Switch Cane	Black Cherry; Wild Cherry	Gerardia	Sleepy Orange (butterfly)
<i>Arundinaria gigantea</i>	<i>Prunus serotina</i>	<i>Agalinis setacea</i>	<i>Eurenia nicippe</i>
Wire Grass	Carolina Cherrylaurel	Trumpet Vine	Gulf Fritillary
<i>Aristida</i> sp.	<i>Prunus caroliniana</i>	<i>Campsis radicans</i>	<i>Agraulis vanillae</i>
Little Bluestem	Common Lupine	Purple Bladderwort	Pearl Crescent
<i>Andropogon scoparius</i>	<i>Lupinus diffusus</i>	<i>Utricularia purpurea</i>	<i>Phyciodes thorus</i>
Golden-club	Three-seeded Mercury	Bladderwort	Common Buckeye (butterfly)
<i>Orontium aquaticum</i>	<i>Acalypha</i> sp.	<i>Utricularia</i> sp.	<i>Junonia coenia</i>
Bogmoss	Poison-ivy	Poor-Jo (or Po-Jo)	Monarch (butterfly)
<i>Mayaca aubletii</i>	<i>Rhus typhina</i>	<i>Diodia teres</i>	<i>Danaus plexippus</i>
Greenbrier; Bullbrier	Poison-oak	Japanese Honeysuckle	Yucca Giant-skipper (egg)
<i>Smilax rotundifolia</i>	<i>Rhus toxicodendron</i>	<i>Lonicera japonica</i>	<i>Megathymus yuccae</i>
Bamboo Smilax	Winged Sumac	Common Ragweed	Woolly Bear Caterpillar
<i>Smilax laurifolia</i>	<i>Rhus copallina</i>	<i>Ambrosia artemisiifolia</i>	<i>Pyrrharchia tusabella</i>
Bear-grass	American Holly	Elephant's-foot	Banded Tussock Moth
<i>Yucca filamentosa</i>	<i>Ilex opaca</i>	<i>Elephantopus tomentosus</i>	<i>Halysidota tessellaris</i>
Spoonleaf Yucca	Inkberry	Carphephorus	Dagger Moth
<i>Yucca filamentosa filamentosa</i>	<i>Ilex glabra</i>	<i>Carphephorus</i> sp.	<i>Acronicta</i> sp.
Nodding Ladies'-tresses	Sweet Galberry	White Snakeroot	Southern Toad
<i>Spiranthes cernua cernua</i>	<i>Ilex coriacea</i>	<i>Eupatorium rugosum</i>	<i>Bufo terrestris</i>

Goodale State Park (continued)
October 26, 1991

Southern Cricket Frog

Acris gryllus

Bullfrog

Rana catesbeiana

Yellow-bellied Slider

Chrysemys scripta

Carolina Anole

Anolis carolinensis

Ground Skink

Scincella lateralis

Six-lined Racerunner

Cnemidophorus sexlineatus

Eastern Garter Snake

Thamnophis sirtalis

Pied-billed Grebe

Podilymbus podiceps

Great Egret

Casmerodius albus

Great Blue Heron

Ardea herodias

Mallard

Anas platyrhynchos

Wood Duck

Aix sponsa

Killdeer

Charadrius vociferans

Turkey Vulture

Cathartes aura

Black Vulture

Coragyps atratus

Northern Flicker

Colaptes auratus

Pileated Woodpecker

Dryocopus pileatus

Eastern Phoebe

Sayornis phoebe

American Crow

Corvus brachyrhynchos

Fish Crow

Corvus ossifragus

Carolina Chickadee

Parus carolinensis

Brown-headed Nuthatch

Sitta pusilla

Carolina Wren

Thryothorus ludovicianus

Golden-crowned Kinglet

Regulus satrapa

Eastern Bluebird

Sialia sialis

Northern Mockingbird

Mimus polyglottos

Brown Thrasher

Toxostoma rufum

Yellow-rumped Warbler

Dendroica coronata

Common Grackle

Quiscalus quiscula

Gray Squirrel

Sciurus carolinensis

Raccoon (tracks)

Procyon lotor

White-tailed Deer (tracks)

Odocoileus virginianus

Savage Bay Heritage Preserve

Kershaw County

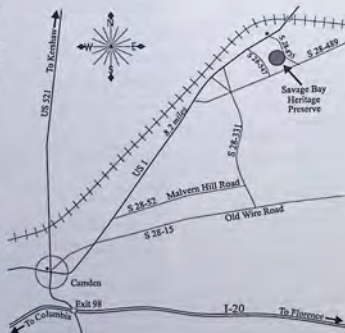
October 26, 1991

Savage Bay is a small bay, but deep in comparison to other Carolina bays, with standing water in its center most of the time. It has a very dense population of "bay" plants around the rim, and then the classic sand ridge that is indicative of most bays, with uncommon sandhills species such as the pine barren gentian. This bay has been timbered, but the cypress stumps have resprouted and young plants have grown to create a complete canopy over the water. The best way to see the bay is to use a canoe, or to wade. This trip is best remembered by SCAN members for the sight of many members standing around in knee-deep water while holding a variety of conversations. The sun filtering through the fall cypress leaves created a cathedral-like effect. There are no foot trails, but with old roads (be aware: some go onto private land) and by keeping sight of the vegetation along the rim of the bay, it is easy to explore the edges of this bay.

Directions to Savage Bay Heritage Preserve: From Columbia, take I-20 east toward Florence, and turn north onto US 521 at Exit 98 to Camden. In the center of town, turn right (north) onto US 1 toward McBee. Drive about 8.2 miles and turn right onto S 28-835; (if you come to the railroad underpass, you have gone too far.) Savage Bay is about half a mile on the right, marked with a sign.

FLORA

Lichen

*Graphis afzelii**Catillaria* sp.*Cladonia calycanthae**Cladonia chlorophaea**Cladonia cristatella**Cladonia cristatella vestita**Cladonia cristatella aurantiaca**Cladonia dudaya**Cladonia leporina**Cladonia pyrenaica**Cladonia polycarpa**Cladonia polycarpoides**Pertusaria ostiolata**Pertusaria texana**Hacmatomma puniceum**Lecanora atra**Lecanora miculata**Lecanora allophana argentata**Lecanora pallida**Lecanora varia**Lecanora* sp.*Ochrolechia africana**Bulbothrix confederata**Bulbothrix goebelii**Bulbothrix isidiza**Hypotrachyna livida**Hypotrachyna pustulifera**Parmelia dissecta**Parmelia horrescens*

Parmotrema cetratum
Parmotrema hypotropum
Parmotrema mellissii
Parmotrema nichauxianum
Parmotrema perforatum
Parmotrema rampoddense
Parmotrema reticulatum
Parmotrema robustum
Parmotrema tinctorum
Pseudoparmelia caperata
Pseudoparmelia caroliniana
Pseudoparmelia crozalsiana
Canoparmelia texana
Ramalina willeyi
Usnea strigosa
Buellia punctata
Buellia caloosensis
Buellia leucocoma
Buellia stillingiana
Physcia cloanthea
Trypethelium sp.
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Long-leaf Pine
Pinus palustris
Pond-cypress
Taxodium ascendens
Panic Grass
Panicum verrucosum
Beard Grass
Erianthus sp.
Little Bluestem
Andropogon scoparius
Wool-grass
Scirpus cyperinus
Pickercorn
Pontederia cordata
Turkey Oak
Quercus laevis
Blue-jack Oak
Quercus incana
Clearweed
Pilea pumila
Wire-plant
Sipulicida setacea
Pondspice
Litsea aestivalis
Virginia-willow
Ita virginica
Sweet-gum
Liquidambar styraciflua
Red Chokeberry
Sorbus arbutifolia arbutifolia
Hog Plum
Prunus umbellata
Orange Milkwort
Polygala lutea
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
Tit
Cyrtia racemiflora
Inkberry
Ilex glabra

Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
Prickly-pear
Opuntia compressa
Intelligence-plant
Centella asiatica
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Sweet Pepperbush
Clethra alnifolia alnifolia
Honey-cup
Zenobia pulverulenta
Fetterbush
Lyonia lucida
Coastal Honeybells
Leucothoe racemosa
Persimmon
Diospyros virginiana
Pine-barren Gentian
Gentiana autumnalis
Bonamia
Bonamia sp.
Wiry Bladderwort
Utricularia subulata
Ironweed
Vernonia angustifolia angustifolia
Elephant's-foot
Elephantopus carolinianus

Blazing-star
Liatris graminifolia
Carphephorus
Carphephorus bellidifolius
Sweet Goldenrod
Solidago odora
Silphium
Silphium sp.

FAUNA

Basilica Spider
Mecynogea lemniscata
Long-jawed Orb-weaver
Tetragnatha laboriosa
Green Lynx Spider
Psecutia viridans
Jumping Spider (large)
Phidippus pulcher
Jumping Spider (small)
Metaphidippus galathea
Common Green Darner
Anax junius
Blue Dragonet
Erythrodiplos minimuscula
Spreading Damselfly
Zestis sp.
Tiger Beetle
Cicindela tranquebarica

Whirligig Beetle
Dineutus sp.
Large Rove Beetle
Staphylinus fossator
Darkling Beetle (larva)
Alobates pennsylvanicus
Twenty-spotted Lady Beetle
Pryllobora vigintimaculata
Cloudless Sulphur
Phoebastria senecae eubale
Little Yellow (butterfly)
Eurema lisa
Gulf Fritillary
Agraulis vanillae
Common Buckeye (butterfly)
Junonia coenia
Carolina Anole
Anolis carolinensis
Eastern Fence Lizard
Sceloporus undulatus
Northern Harrier
Circus cyaneus
Yellow-rumped Warbler
Dendroica coronata
Chipping Sparrow
Spizella passerina
Red-winged Blackbird
Agelaius phoeniceus
Common Grackle
Quiscalus quiscula



Pond-cypress, *Taxodium ascendens*.

(Photos by L. Greenlee and A. Cargill)

(Photo by L. Greenlee)
 The egg cases of the writing spider, *Argiope aurantia*, hang like ornaments.





Lancaster County

Flat Creek Heritage Preserve

Lancaster County

September 24, 1988, April 13, 1991, and April 16, 1994

Flat Creek Heritage Preserve covers one of the most diverse small areas in the state. It includes a large exfoliating granite monadnock with classic vernal solution pools (Forty-acre Rock), a waterfall, a narrow valley that emulates mountainous cove areas, a cave, a beaver pond, a floodplain of a Piedmont creek and its bordering bluff and one of the largest basaltic dikes (Flat Creek Dike) in the eastern United States. This area harbors a very large number of unusual plants, especially in the pools on the rock and in the neutral soil over the dike. The pool sprite (*Amphianthus pusillus*) growing in the vernal pools is very rare, having been found on only one other granite outcrop. The two stonecrops are also quite rare. These plants carpet the pools in red fleshy leaves and white flowers in early spring.

Directions to Flat Creek Heritage Preserve: From Camden, drive north on US 521/601 to Kershaw (21 miles); turn right onto US 601 in downtown Kershaw and continue toward Pageland. Six miles farther, US 601 merges with SC 903. Continue on US 601/SC 903 for 1.6 miles, passing Flat Creek school on the left and crossing over the creek. Turn left onto SC 29-27. Go another half mile; the parking lot is on the left.



FLORA

Lichen

Collema subflaccidum
Leptogium burnetiae
Leptogium chloromelum
Leptogium corticola
Leptogium cyanescens
Leptogium lichenoides
Leptogium marginellum
Leptogium microstictum
Pannaria rubiginosa
Pannaria tavarensii
Parmeliella parvula
Hydrothyria venosa
Coccocarpia erythroxyl
Nephroma helveticum
Peltigera canina
Peltigera horizontalis
Peltigera polydactyla
Lobaria pulmonaria
Lobaria quercizans
Lobaria ravenelii
Lobaria tenuis
Pseudocephalaria aurata

Pseudocephalaria crocata
Pseudocephalaria sp.
Siticia fuliginosa
Siticia weigeli
Graphis scripta
Graphis nitida
Graphis braconitii
Graphis afzelii
Graphis mosquitosensis
Graphis atrorubens
Graphis tenella
Graphis intricata
Graphis scripta topographica
Graphis lineola
Graphis leucophaea
Graphis poirensis
Graphis elegans
Graphis striatula
Graphis grammis
Glyphtis ciliaris
Gyrostomum scyphuliferum
Gyrostomum sp.
Medusulina nitida
Phaeographis erumpens
Sarcographa sp.

Xylographa disseminata
Thelotrema monosporum
Cladonia orbicula
Coenogonium interplexum
Coenogonium moniliforme
Coenogonium sp.
Dimerella lutea
Bacidia phacodes
Bacidia rosella
Bacidia chlorantha
Bacidia atrogrisea
Bilimbia lignaria
Bacidia polychroa
Bacidia schweinitzii
Bacidia incompta
Bacidia abductans
Bacidia suffusa
Bacidia dryina
Bacidia laurocerasti
Bacidia fusca sp. nov.
Bacidia sp.
Leptogium austroamericanum
Brigantia leucoxantha
Cantharella glauconigrans
Lecidea varians

Lecidea nylanderii
Lecidea carneobalbens
Lecidea albocaulis
Lecidea congesta
Lecidea russula
Lecidea cyanea
Lecidea parasema
Lecidea parasema thelopiacea
Lecidea promiscens
Lecidea myriocarpoides
Lecidea tessellata
Lecidea sp.
Porpidia macrocarpa
Rhizocarpon sp.
Leptotrichia domingense
Stereocaulon dactylophyllum
Stereocaulon pileatum
Baeomyces fungoides
Cladonia evansii
Cladonia rangiferina
Cladonia rangiferina f. crispata
Cladonia stellata
Cladonia abbreviata
Cladonia apodocarpa
Cladonia bacillaris

<i>Cladonia balfourii</i>	<i>Haematomma puniceum</i>	Eastern Red-cedar	Blue-eyed-grass
<i>Cladonia beaumontii</i>	<i>Haematomma elatinum</i>	<i>Juniperus virginiana</i>	<i>Sisyrinchium</i> sp.
<i>Cladonia cespiticia</i>	<i>Haematomma ochrophaeum</i>	Cane; Switch Cane	Crested Iris
<i>Cladonia calycantha</i>	<i>Lecanina fuscella</i>	<i>Arundinaria gigantea</i>	<i>Iris cristata</i>
<i>Cladonia capitata</i>	<i>Lecanora laevata</i>	Purple-top	Crane-fly Orchid
<i>Cladonia cariosa</i>	<i>Lecanora cinerea</i>	<i>Trident flava</i>	<i>Tipularia discolor</i>
<i>Cladonia caroliniana</i>	<i>Lecanora deplanans</i>	Spike Grass	Eastern Cottonwood
<i>Cladonia caroliniana caroliniana</i>	<i>Lecanora lacustris</i>	<i>Uniola sessiliflora</i>	<i>Populus deltoides</i>
<i>Cladonia chlorophaea</i>	<i>Lecanora atra</i>	River Oats	Black Walnut
<i>Cladonia sobolescens</i>	<i>Lecanora hypoptoides</i>	<i>Uniola latifolia</i>	<i>Juglans nigra</i>
<i>Cladonia coniocraea</i>	<i>Lecanora miculata</i>	Melic Grass	Southern Shagbark Hickory
<i>Cladonia conista</i>	<i>Lecanora rugosa</i>	<i>Melica nutica</i>	<i>Carya caroliniana-septentrionalis</i>
<i>Cladonia cristatella</i>	<i>Lecanora cenisia</i>	Needle Grass	Mockernut Hickory
<i>Cladonia cylindrica</i>	<i>Lecanora subfusca</i>	<i>Stipa avenacea</i>	<i>Carya tomentosa</i>
<i>Cladonia didyma</i>	<i>Lecanora hageni</i>	Beard Grass	Pignut Hickory
<i>Cladonia digitata</i>	<i>Lecanora willeyi</i>	<i>Gymnopogon ambiguus</i>	<i>Carya glabra</i>
<i>Cladonia floerkeana</i>	<i>Lecanora cupressi</i>	Microstegium (grass)	Hickory
<i>Cladonia furcata</i>	<i>Lecanora pallida</i>	<i>Microstegium vimineum</i>	<i>Carya</i> sp.
<i>Cladonia gracilis</i>	<i>Lecanora parisensis</i>	Beard Grass	Tag Alder
<i>Cladonia incrustata</i>	<i>Lecanora effusa</i>	<i>Eriophorum</i> sp.	<i>Alnus serrulata</i>
<i>Cladonia leporina</i>	<i>Lecanora varia</i>	Broomsedge	Hazel-nut
<i>Cladonia macilentia</i>	<i>Candelaria concolor</i>	<i>Andropogon ternarius</i>	<i>Corylus americana</i>
<i>Cladonia mateocyatha</i>	<i>Hypotrachyna livida</i>	Fimbristylis (sedge)	Hop-hornbeam
<i>Cladonia ochrochlora</i>	<i>Parmotrema reticulatum</i>	<i>Fimbristylis dichotoma</i>	<i>Ostrya virginiana</i>
<i>Cladonia parasitica</i>	<i>Xanthoparmelia conspersa</i>	Jack-in-the-pulpit	American Hornbeam; Ironwood
<i>Cladonia piedmontensis</i>	<i>Ramalina americana</i>	<i>Arisaema triphyllum</i>	<i>Carpinus caroliniana</i>
<i>Cladonia pityrea</i>	<i>Usnea strigosa</i>	Giant Duckweed	White Oak
<i>Cladonia polycarpa</i>	<i>Anaptychia palmatula</i>	<i>Spirodela punctata</i>	<i>Quercus alba</i>
<i>Cladonia polycarpoides</i>	<i>Physcia alpicola</i>	Duckweed	Post Oak
<i>Cladonia pyxidata</i>	<i>Phaeophyscia imbricata</i>	<i>Lemna</i> sp.	<i>Quercus stellata</i>
<i>Cladonia ravenelli</i>	<i>Trypethelium vires</i>	Water-meal	Rock Chestnut Oak
<i>Cladonia rei</i>	Quillwort	<i>Wolffia</i> sp.	<i>Quercus prinus</i>
<i>Cladonia robbinsii</i>	<i>Isoetes</i> sp.	Dayflower	Turkey Oak
<i>Cladonia santensis</i>	Rattlesnake Grape Fern	<i>Commelina erecta</i>	<i>Quercus laevis</i>
<i>Cladonia squamosa</i>	<i>Botrychium virginianum</i>	Asian Spiderwort	Black Oak
<i>Cladonia strepsilis</i>	Common Grape Fern	<i>Anemone keiskei</i>	<i>Quercus velutina</i>
<i>Cladonia subetacea</i>	<i>Botrychium dissectum</i>	Spiderwort	Spanish Oak
<i>Cladonia uncialis</i>	Southern Grape Fern	<i>Tradescantia</i> sp.	<i>Quercus falcata</i>
<i>Cladonia verticillata</i>	<i>Botrychium biternatum</i>	Rush	Black Jack Oak
<i>Cladonia subcariosa</i>	Cinnamon Fern	<i>Juncus georgianus</i>	<i>Quercus marilandica</i>
<i>Cladonia peziziformis</i>	<i>Osmunda cinnamomea</i>	Woodrush	Willow Oak
<i>Pycnophelia papillaria</i>	Maidenhair Fern	<i>Luzula echinata</i>	<i>Quercus phellos</i>
<i>Umbilicaria mammulata</i>	<i>Adiantum pedatum</i>	Carrión-flower	Oak
<i>Melanaria macounii</i>	Hairy Lip Fern	<i>Smilax ecirrhata lugeri</i>	<i>Quercus</i> sp.
<i>Pertusaria multipunctata</i>	<i>Cheilanthes lanosa</i>	Bamboo Smilax	Winged Elm
<i>Pertusaria amara</i>	Woolly Lip Fern	<i>Smilax laurifolia</i>	<i>Ulmus alata</i>
<i>Pertusaria globularis</i>	<i>Cheilanthes tomentosa</i>	Nodding Trillium	Sugarberry; Hackberry
<i>Pertusaria copiosa</i>	<i>Cheilanthes</i> sp.	<i>Trillium cernuum</i>	<i>Celtis laevigata</i>
<i>Pertusaria neoscotica</i>	Lip Fern	<i>Catesby's Trillium</i>	Hackberry
<i>Pertusaria leucostoma</i>	Bracken	<i>Trillium catesboei</i>	<i>Celtis occidentalis georgiana</i>
<i>Pertusaria pustulata</i>	<i>Pteridium aquilinum</i>	False Solomon's Seal	Red Mulberry
<i>Pertusaria ostiolata</i>	Southern Lady Fern	<i>Smilacina racemosa</i>	<i>Morus rubra</i>
<i>Pertusaria paratuberculifera</i>	<i>Athyrium asplenoides</i>	Solomon's-seal	False Nettle
<i>Pertusaria propinqua</i>	Lady Fern	<i>Polygonatum biflorum</i>	<i>Boehmeria cylindrica</i>
<i>Pertusaria plittiana</i>	<i>Athyrium filix-femina</i>	Bear-grass	Clearweed
<i>Pertusaria rubefacta</i>	Christmas Fern	<i>Yucca filamentosa</i>	<i>Pilea pumila</i>
<i>Pertusaria trachythallina</i>	<i>Polystichum acrostichoides</i>	Dog's-tooth-violet	Indian-olive
<i>Pertusaria sinuomexicana</i>	Netted Chain Fern	<i>Erythronium americanum</i>	<i>Nestronia umbellata</i>
<i>Pertusaria velata</i>	<i>Woodwardia areolata</i>	Bellwort	Wild Ginger
<i>Pertusaria macounii</i>	Ebony Spleenwort	<i>Uvularia sessilifolia</i>	<i>Asarum canadense</i>
<i>Pertusaria xanthodes</i>	<i>Asplenium platyneuron</i>	False Garlic	Heartleaf
<i>Pertusaria tuberculifera</i>	Resurrection Fern	<i>Allium trivale</i>	<i>Hetaeris arifolia</i>
<i>Pertusaria ophthalmica</i>	<i>Polypodium polypodioides</i>	Cinnamon-vine	Jumpseed
<i>Pertusaria multipunctoides</i>	Loblolly Pine	<i>Dioscorea batatas</i>	<i>Tovara virginiana</i>
<i>Pertusaria vaticulata</i>	<i>Pinus taeda</i>	Wild Yam	Pokeweed; Pokeberry
<i>Pertusaria caroliniana</i> sp. nov.	Short-leaf Pine	<i>Dioscorea villosa</i>	<i>Phytolacca americana</i>
<i>Maronea constans</i>	<i>Pinus echinata</i>		

Flat Creek Heritage Preserve (continued)
 September 24, 1988, April 13, 1991, and April 16, 1994

- Rock-portulaca**
Talinum terrefolium
Purslane
Portulaca coronata
Giant Chickweed
Stellaria pubera
Rock Sandwort; Rockwort
Arenaria uniflora
Sandwort
Arenaria groenlandica
Mountain Sandwort
Arenaria groenlandica glabra
Wild Pink; Catchfly
Silene caroliniana
Water-shield
Brasenia schreberi
Yellowroot
Xanthoxylum simplicissimum
Black Cohosh
Cimicifuga racemosa
Clematis
Clematis sp.
Windflower
Thalictrum thalictroides
Liverleaf
Hepatica americana
Thimbleweed
Anemone virginiana
Blue Cohosh; Papoose-root
Caulophyllum thalictroides
Mayapple
Podophyllum peltatum
Coralbeads
Coccoloba caroliniana
Moonseed
Menispermum canadense
Tulip-poplar
Liriodendron tulipifera
Cucumber-tree
Magnolia acuminata
PawPaw
Arisaema triloba
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Bloodroot
Sanguinaria canadensis
Draba
Draba aprica
Toothwort
Candamine concatenata
Arabis
Arabis laevigata
Rock-cress
Arabis laevigata missouriensis
Stonecrop
Sedum pusillum
Vernal Pool Stonecrop
Sedum snailii
Stonycrop
Sedum ternatum
Mock-orange
Philadelphus inodorus
Alumroot
Heuchera americana
Foamflower
Tiarella cordifolia
Tiarella cordifolia collina
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana
American Sycamore
Platanus occidentalis
Five-fingers
Potentilla canadensis
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Redbud; Judas-tree
Cercis canadensis
Partridge-pea
Cassia fasciculata
Honey Locust
Gleditsia triacanthos
Sundial Lupine
Lupinus perennis
Carolina Clover
Trifolium carolinianum
Pencil-flower
Sylosanthes biflora
Groundnut
Ajalea americana
Hog-peanut
Amphicarpa bracteata
Violet Wood-sorrel
Oxalis violacea
Wild Geranium
Geranium maculatum
Button-rose
Polygala curtilis
Tread-sofly
Cudicoculus stimulosus
Rushfoil
Crotonopsis elliptica
Flowering Spurge
Euphorbia corollata
Spurge
Euphorbia sp.
Poison-ivy
Rhus radicans
Fragrant Sumac
Rhus aromatica
Winged Sumac
Rhus copallina
Smooth Sumac
Rhus glabra
American Holly
Ilex opaca
Possumhaw Holly
Ilex decidua
Hearts-a-burstin'-with-love
Euxonymus americanus
Bladdernut
Staphylea trifolia
Boxelder
Acer negundo
Red Maple
Acer rubrum
Southern Sugar Maple
Acer saccharum floridanum
Chalk Maple
Acer saccharum leucoderme
Painted Buckeye
Aesculus sylvatica
Red Buckeye
Aesculus pavia
Spotted Touch-me-not
Impatiens capensis
New-Jersey-tea
Ceanothus americanus
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
St-John's-wort
Hypericum lloydii
Hypericum
Hypericum sp.
Green Violet
Hybanthus concolor
Bird-foot Violet
Viola pedata
Primrose-leaved Violet
Viola primifolia
Halberd-leaved Violet
Viola hastata
Violet
Viola sp.
Prickly-pear
Opuntia compressa
Devil-joint
Opuntia drummondii
Ludwigia
Ludwigia repens
Sanicle; Snakeroot
Sanicula canadensis
Wild Chervil
Chaerophyllum tainturieri
Meadow Parsnip
Zizia trifoliata
Blackgum
Nyssa sylvatica
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Sweet Pepperbush
Clethra alnifolia
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora
Pinxter-flower; Pinxter-bloom
Rhododendron nudiflorum
Azalea
Rhododendron sp.
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Buckthorn Bumelia
Bumelia lycioides
Persimmon
Diospyros virginiana
Fringe-tree
Chionanthus virginicus
Yellow Jessamine
Gelsemium sempervirens
Gentian
Gentiana villosa
Blue-star
Amsonia tabernaemontana
Angle-pod
Matelea sp.
Dodder
Cuscuta groenovii
Little Red Morning-glory
Ipomoea coccinea
Morning-glory
Ipomoea lacunosa
Phlox
Phlox nivalis
Phlox sp.
Phacelia
Phacelia dubia
Jussieu
Phacelia maculata
Wild Comfrey
Cynoglossum virginianum
Beautyberry
Callicarpa americana
Common Skullcap
Scutellaria integrifolia
Skullcap
Scutellaria sp.
Carpenterweed
Prunella vulgaris
Lyre-leaved Sage
Salvia lyrata
Sage
Salvia urticifolia
Salvia
Salvia sp.
Bugle-weed
Lycopus virginicus
Pool-sprite
Amphianthus pusillus
Hedge-hyssop
Gratiola sp.
False Pimpernel
Lindernia monticola
Woolly Mullein
Verbascum thapsus
Toadflax
Linaria canadensis
Linaria sp.
False Foxglove
Aureolaria sp.
Agalinis tenuifolia
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans

Partridge-berry <i>Mitchella repens</i>	Cinnabar-red Chanterelle <i>Cantharellus cinnabarinus</i>	Gem-Studded Puffball <i>Lycoperdon perlatum</i>	Golden-winged Skimmer <i>Libellula auripennis</i>
Bluets <i>Houstonia coerules</i> <i>Houstonia purpurea</i> <i>Houstonia tenuifolia</i>	Fragrant Chanterelle <i>Craterellus odoratus</i>	Elegant Stinkhorn <i>Mutinus elegans</i>	Twelve-spotted Skimmer <i>Libellula pulchella</i>
Bedstraw <i>Galium</i> sp.	White Worm Coral <i>Clavaria vermicularis</i>	Cedar Apple Rust <i>Gymnosporangium juniperivirginianae</i>	White-tail Dragonfly <i>Plathemis lydia</i>
Japanese Honeysuckle <i>Lonicera japonica</i>	Crown-tipped Coral <i>Clavicorona pyxidata</i>	FAUNA	Lilypad Forktail (damselfly) <i>Ischnura kellicottii</i>
Coral Honeysuckle <i>Lonicera sempervirens</i>	Violet-branched Coral <i>Clavulina amethystina</i>		Tiger Beetle <i>Cicindela tranquebarica</i>
Black-haw; Nanny-berry <i>Viburnum prunifolium</i>	Yellow-tipped Coral <i>Ramaria formosa</i>	Bowl-and-dolly Spider <i>Frontinella pyramitella</i>	Pedunculate Ground Beetle <i>Pasimachus depressus</i>
American Elderberry <i>Sambucus canadensis</i>	Scaly Tooth <i>Hydnum imbricatum</i>	Arrow-shaped Spiny-back <i>Micrathena saginata</i>	Minute Ground Beetle <i>Microptichus flavicauda</i>
Corn-salad <i>Valerianella radiata</i>	Meadow Mushroom <i>Agaricus campestris</i>	White Micrathena (spider) <i>Micrathena mitrata</i>	Predacious Diving Beetle <i>Laccophilus fasciatus rufus</i>
Bur Cucumber <i>Sicyos angulatus</i>	Parasol <i>Leptota procera</i>	Writing Spider <i>Argiope auratha</i>	Water Scavenger Beetle <i>Tropisternus natator</i>
Cardinal-flower <i>Lobelia cardinalis</i>	American Caesar's Mushroom <i>Amanita caesarea</i>	Orb-weaver <i>Neotoma</i> sp.	Passalus; Bess <i>Popillius disjunctus</i>
Lobelia <i>Lobelia puberula</i>	Rag-veil Amanita <i>Amanita cinereopannosa</i>	Araucis bicentennarius Marbled Orb-weaver <i>Araucis marmoreus</i>	Dung Beetle <i>Ateuchus</i> sp.
Common Ragweed <i>Ambrosia artemisiifolia</i>	Gemmed Amanita <i>Amanita gemmata</i>	Arrowhead Spider <i>Verrucosa arenata</i>	Onthophagus tuberculifrons
Gall-of-the-earth <i>Prenanthes serpentina</i>	Fly Agaric <i>Amanita muscaria</i>	Long-jawed Orb-weaver <i>Tetragnatha laboriosa</i>	Flower Scarab Beetle <i>Euphoria sepulchralis</i>
Prenanthes <i>Prenanthes</i> sp.	Gristle <i>Amanita vaginata</i>	Tetragnatha sp.	Yellow-marked Buprestid Beetle <i>Acmaeodera tubulus</i>
Wild Lettuce <i>Lactuca floridana</i>	Destroying-angel <i>Amanita virosa</i>	Six-spotted Fishing Spider <i>Dolomedes triton</i>	Leaf Buprestid Beetle <i>Brachys cerosus</i>
Rattlesnake-weed <i>Hieracium venosum</i>	Shaggy-stalked Bolete <i>Boletellus betula</i>	Forest Wolf Spider <i>Lycosa galea</i>	Soldier Beetle <i>Chauliognathus pennsylvanicus</i>
Hawkweed <i>Hieracium glanovii</i>	Violet-gray Bolete <i>Tylopilus plumbeoviolaceus</i>	Jumping Spider <i>Menemerus bivittatus</i>	Dermostid Beetle <i>Cryptorhopalum</i> sp.
Dwarf Dandelion <i>Krigia virginica</i>	Flat Crep <i>Crepidotus applanatus</i>	Red Velvet Mite <i>Trombidium</i> sp.	Checkered Beetle <i>Enoclerus ichneumonius</i>
Pale Indian-plantain <i>Cacalia atriplicifolia</i>	Fading Scarlet Waxy-cap <i>Hygrophorus miniatus</i>	Wild Cherry Pouch Gall Mite <i>Eriophyes padi</i>	Soft-winged Flower Beetle <i>Malachius</i> sp.
Small's Ragwort <i>Senecio smallii</i>	Poison Paxillus <i>Paxillus involutus</i>	Sulfur-winged Grasshopper <i>Arphia sulphurea</i>	Hypebaeus oblitus <i>Melyrodes cribrata</i>
Mule-ears; Bitterweed <i>Senecio tomentosus</i>	Indigo Milky <i>Lactarius indigo</i>	Broad-winged Katydid <i>Microcentrum rhombifolium</i>	Black Blister Beetle <i>Epicauta pennsylvanica</i>
Elephant's-foot <i>Elephantopus carolinianus</i>	Peppery Milky <i>Lactarius piperatus</i>	Cone-headed Katydid <i>Neonacanthus</i> sp.	Darkling Beetle <i>Alobates pennsylvanica</i>
Blazing-star <i>Liatris secunda</i>	Common Violet-latex Milky <i>Lactarius uvidus</i>	Negro Bug <i>Corinelaena</i> sp.	False Darkling Beetle <i>Allopatha lutea</i>
Climbing Hempweed <i>Mikania scandens</i>	Tacky Green Russula <i>Russula aeruginea</i>	Seed Bug <i>Hypocoreus</i> sp.	Lady Beetle <i>Brachycauthus</i> sp.
Pussy-toes <i>Antennaria plantaginifolia</i>	Graying Yellow Russula <i>Russula clavigera</i>	Neocarphus bicinctus	Seven-spotted Lady Beetle <i>Coccinella septempunctata</i>
Rabbit-tobacco <i>Gnaphalium obtusifolium</i>	Fragile Russula <i>Russula fragilis</i>	Red Bug <i>Largus succineus</i>	Peasapong Fungus Beetle <i>Tritoma angulata</i>
Aster <i>Aster undulatus</i>	Blackish-red Russula <i>Russula kromholzii</i>	Flat Bug <i>Mecura</i> sp.	Flower Longhorn Beetle <i>Grammoptera</i> sp.
Green-and-gold <i>Chrysogonum virginianum</i>	Violet Collybia <i>Collybia iocophala</i>	Water-scorpion <i>Ranatra</i> sp.	Typocerus sp.
Coneflower <i>Rudbeckia laciniata</i>	Purple-gilled Laccaria <i>Laccaria ochropurpurea</i>	Hickory Leaf Gall (aphid) <i>Phylloxera carposcaulis</i>	Cylindrical Leaf Beetle <i>Pachybrachis</i> sp.
Spanish-needles <i>Bidens bipinnata</i>	Coral Spring Mycena <i>Mycena acicula</i>	Red Imported Fire Ant <i>Solenopsis invicta</i>	Cryptocaphalus quadriflex
Bitterweed <i>Helenium amarum</i>	Orange Moss Agaric <i>Rickenella fibula</i>	Dogwood Club Gall (midge) <i>Lasioptera clazula</i>	Warty Leaf Beetle <i>Chlamys gibbosus</i>
Tree-ear <i>Auricularia auricula</i>	Skull-shaped Puffball <i>Calticia craniformis</i>	Common Green Darner <i>Anax junius</i>	Oval Leaf Beetle <i>Nodonota</i> sp.
	Spiny Puffball <i>Lycoperdon echinatum</i>	Eastern Pondhawk <i>Erythemis simplicicollis</i>	Graphops curtipennis
		Little Corporal Dragonfly <i>Ladona deplanata</i>	Paria canella aterrimus
			Paria canella quadrimaculata
			Alder Leaf Beetle (larva) <i>Chrysomela interrupta</i>

Flat Creek Heritage Preserve (continued)

September 24, 1988, April 13, 1991, and April 16, 1994

Azalea Leaf Beetle <i>Galerucella rufosanguinea</i>	Fowler's Toad <i>Bufo woodhousei</i>
Oak Flea Beetle <i>Oedionychis quercata</i>	Northern Cricket Frog <i>Acris crepitans</i>
Flea Beetle <i>Oedionychis miniata</i>	Green Treefrog <i>Hyla cinerea</i>
<i>Disonycha abbreviata</i>	Bullfrog <i>Rana catesbeiana</i>
Corn Flea Beetle <i>Chaetocnema pulicaria</i>	Carpenter Frog <i>Rana virgatipes</i>
Leaf-mining Beetle <i>Anoplinis inaequalis</i>	Eastern Narrowmouth Toad <i>Gastrophryne carolinensis</i>
Pear-shaped Weevil <i>Apion decoloratum</i>	Yellow-bellied Slider <i>Chrysemys scripta</i>
Short-nosed Weevil <i>Pandeleteius sp.</i>	Eastern Box Turtle <i>Terrapene carolina</i>
Flower Weevil <i>Autobaris ibis</i>	Carolina Anole <i>Anolis carolinensis</i>
<i>Centrinaspis perscillus</i>	Eastern Fence Lizard <i>Sceloporus undulatus</i>
<i>Centrinites sp.</i>	Five-lined Skink <i>Eumeces fasciatus</i>
Zebra Swallowtail <i>Euryides marcellus</i>	Broadhead Skink <i>Eumeces laticeps</i>
Eastern Tiger Swallowtail <i>Papilio glaucus</i>	Skink <i>Eumeces sp.</i>
Spicebush Swallowtail <i>Papilio troilus</i>	Six-lined Racerunner <i>Cnemidophorus sexlineatus</i>
Falcate Orange-tip <i>Anthocharis midea</i>	Eastern Hognose Snake <i>Heterodon platyrhinos</i>
Cloudless Sulphur <i>Phoebastria sennae eubule</i>	Northern Water Snake <i>Nerodia sipedon</i>
Sleepy Orange (butterfly) <i>Eurema nicippe</i>	Anhinga; Snakebird <i>Anhinga anhinga</i>
Gray Hairstreak <i>Styrmion melinus</i>	Great Blue Heron <i>Ardea herodias</i>
Eastern Tailed-blue (butterfly) <i>Everes comyntas</i>	Wood Duck <i>Aix sponsa</i>
Spring Azure (butterfly) <i>Celastrina ladon</i>	Turkey Vulture <i>Cathartes aura</i>
Variegated Fritillary <i>Euploia claudia</i>	Black Vulture <i>Coragyps atratus</i>
Pearl Crescent <i>Phycodes tharos</i>	Sharp-shinned Hawk <i>Accipiter striatus</i>
Red-spotted Purple (butterfly) <i>Limenitis arthemis astyanax</i>	Red-shouldered Hawk <i>Buteo lineatus</i>
Hackberry Emperor (butterfly) <i>Asterocampa celis</i>	Red-tailed Hawk <i>Buteo jamaicensis</i>
Carolina Satyr (butterfly) <i>Hermesmyia soxys</i>	Osprey <i>Pandion haliaetus</i>
Silver-spotted Skipper <i>Epargyreus clarus</i>	Ruby-throated Hummingbird <i>Archilochus colubris</i>
Juvenal's Duskywing <i>Erynnis juvenalis</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>
Yellow-washed Metarranthus <i>Metarranthus obfirmaria</i>	Pileated Woodpecker <i>Dryocopus pileatus</i>
Eastern Tent Caterpillar <i>Malacosoma americanum</i>	Eastern Phoebe <i>Sayornis phoebe</i>
Hummingbird Clearwing Moth <i>Hemaris thysbe</i>	Blue Jay <i>Cyanocitta cristata</i>
Large Necklace Moth <i>Hypocryptus nianalis</i>	American Crow <i>Corvus brachyrhynchos</i>
Roadside Dace <i>Clinostomus funduloides</i>	
Dwarf Mudpuppy <i>Necturus punctatus</i>	

Tufted Titmouse <i>Parus bicolor</i>	Yellow-throated Warbler <i>Dendroica dominica</i>
Carolina Chickadee <i>Parus carolinensis</i>	Prairie Warbler <i>Dendroica discolor</i>
Brown-headed Nuthatch <i>Sitta pusilla</i>	Pine Warbler <i>Dendroica pinus</i>
Carolina Wren <i>Thryothorus ludovicianus</i>	Hooded Warbler <i>Wilsonia citrina</i>
Ruby-crowned Kinglet <i>Regulus calendula</i>	Ovenbird <i>Seiurus aurocapillus</i>
Blue-gray Gnatcatcher <i>Poliopila caerulea</i>	Yellowthroat <i>Geothlypis trichas</i>
Hermit Thrush <i>Cathartes guttatus</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Northern Mockingbird <i>Mimus polyglottos</i>	Indigo Bunting <i>Passerina cyanea</i>
Cedar Waxwing <i>Bombycilla cedrorum</i>	Rufous-sided Towhee <i>Pipilo erythrophthalmus</i>
White-eyed Vireo <i>Vireo griseus</i>	Red-winged Blackbird <i>Agelaius phoeniceus</i>
Yellow-throated Vireo <i>Vireo flavifrons</i>	Brown-headed Cowbird <i>Molothrus ater</i>
Red-eyed Vireo <i>Vireo olivaceus</i>	Common Grackle <i>Quiscalus quiscula</i>
Prothonotary Warbler <i>Protonotaria citrea</i>	Summer Tanager <i>Piranga rubra</i>
Northern Parula <i>Parula americana</i>	Beaver (gnaw mark) <i>Castor canadensis</i>
Black-and-white Warbler <i>Mniotilta varia</i>	Raccoon (scat) <i>Procyon lotor</i>
Black-throated Blue Warbler <i>Dendroica caerulescens</i>	White-tailed Deer <i>Odocoileus virginianus</i>
Yellow-rumped Warbler <i>Dendroica coronata</i>	

Pinxter-flower, *Rhododendron nudiflorum*.

(Photo by A. Ciegler)



Laurens County

Enoree River Site (Sumter National Forest) Laurens County May 26, 1988

This site is on the south bank of the Enoree River where a low bluff creates a north-facing slope. Such slopes create conditions for very rich botanical communities. The slope and floodplain here combine to provide a combination of Piedmont and more typically mountain species. Some exceptionally large specimens of shagbark hickory and northern red oak were found along with less common plants such as fragrant sumac and ginseng. There was even an old cemetery dating from the early 1800's. There are no developed trails at this site. SCAN's experience was enhanced by the leadership of John Green, naturalist with the Spartanburg Science Center, who was already very familiar with the site and showed the members where to look.

Directions to Enoree River Site: From I-26 between Columbia and Spartanburg, take Exit 52 north on SC 56. Travel 0.5 mile, then diverge to the right onto S 30-98 and drive north for 4.4 miles; (watch for the intersection with S 30-34 and be sure to take the left fork.) Pass an inconspicuous lake on the left, and turn right at the 4-way intersection posted with signs to the Rifle Range. Go about a mile, then turn left following the sign to Ridge Road Hunt Camp. Drive about 2 miles and turn left onto Forest Road 334. The pavement ends near a church on the right; continue to the parking area at the end of the road.



FLORA

Rattlesnake Grape Fern

Botrychium virginianum

Maidenhair Fern

Adiantum pedatum

Christmas Fern

Polystichum acrostichoides

Broad Beech-Fern

Thelypteris hexagonoptera

Ebony Spleenwort

Asplenium platyneuron

Eastern Red-cedar

Juniperus virginiana

Cane; Switch Cane

Arundinaria gigantea

Uliola Grass

Uliola laxa

Microstegium (grass)

Microstegium vimineum

Jack-in-the-pulpit

Arisaema triphyllum

Spiderwort

Tradescantia subsparsa

Nodding Trillium

Trillium cernuum

Catesby's Trillium

Trillium catesbaei

Solomon's-seal

Polygonatum biflorum

Bellwort

Uvularia perfoliata

Yellow Star-grass

Hypoxis hirsuta

Downy Rattlesnake-plantain

Goodyera pubescens

Lizard's-tail

Saururus cernuus

Black Walnut

Juglans nigra

Bitternut Hickory

Carya cordiformis

Shagbark Hickory

Carya ovata

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

White Oak

Quercus alba

Post Oak

Quercus stellata

Swamp Chestnut Oak

Quercus michauxii

Yellow Chestnut Oak

Quercus muhlenbergii

Spanish Oak

Quercus falcata

Cherrybark Oak

Quercus falcata pagodaefolia

Water Oak

Quercus nigra

Slippery Elm

Ulmus rubra

Sugarberry; Hackberry

Celtis laevigata

Virginia Snakeroot

Aristolochia serpentaria

Wild Ginger

Asarum canadense

Heartleaf

Hewaxylis arifolia

Black Cohosh

Cimicifuga racemosa

Windflower

Thalictrum thalictroides

Liverleaf

Hepatica americana

Mayapple

Podophyllum peltatum

Enoree River Site (continued)

May 26, 1988

Tulip-poplar
Liriodendron tulipifera
Cucumber-tree
Magnolia acuminata
PawPaw
Asimina triloba
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Bloodroot
Sanguinaria canadensis
Mock-orange
Philadelphus inodorus
Wild Hydrangea
Hydrangea arborescens
Sweet-gum
Liquidambar styraciflua
Cocklebur
Agrimonia sp.
Redbud; Judas-tree
Cercis canadensis
Poison-ivy
Rhus radicans
Fragrant Sumac
Rhus aromatica
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Bladderwort
Utricularia sp.
Boxelder
Acer negundo
Red Maple
Acer rubrum
Chalk Maple
Acer saccharum leucoderme
Painted Buckeye
Aesculus sylvatica
Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
Ginseng
Panax quinquefolium
Devil's-walking-stick
Aralia spinosa
Snakeroot
Sanicula sp.
Queen Anne's-lace; Wild Carrot
Daucus carota
Meadow Parsnip
Thaspium barbinode
Lovage
Ligusticum canadense
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata

Pinxter-flower; Pinxter-bloom
Rhododendron nudiflorum
Mountain-laurel
Kalmia latifolia
Sourwood
Oxydendrum arboreum
Creeping-Charlie
Lysimachia nummularia
Persimmon
Diospyros virginiana
Bigleaf Snowbell
Syrinx grandifolia
Green Ash; Red Ash
Fraxinus pensylvanica
subintergerrima
Forget-me-not
Myosotis macrosperma
Lyre-leaved Sage
Salvia lyrata
Horse-balm
Collinsonia canadensis
Moth Mullein
Verbascum blattaria
Trumpet Vine
Campsis radicans
Beech-drops
Eupifagus virginiana
Blueets
Houstonia purpurea
Cleavers
Galium aparine
Japanese Honeysuckle
Lonicera japonica
Black-haw; Nanny-berry
Viburnum prunifolium
Maple-leaf Viburnum
Viburnum acerifolium
Rattlesnake-weed
Hieracium venosum
Butterweed
Senecio glabellus
Rough Daisy Fleabane
Erigeron strigosus
Tinder Polypore
Fomes fomentarius
Violet-toothed Polypore
Trichaptum biformis
Common Split-gill
Schizophyllum commune
Crowded Parchment
Stereum complicatum
Alcohol Ink
Coprinus atramentarius
Fawn Mushroom
Pluteus cervinus
Oak-loving Collybia
Collybia dryophila

FAUNA

Negro Bug
Cornelia sp.
Leaf-cutting Bee
Megachile sp.

Ebony Jewelwing
Calopteryx maculata
Green Tiger Beetle
Cicindela sexguttata
Woodland Ground Beetle
Pterostichus sp.
Notch-mouthed Ground Beetle
Dicelus ambiguus
False Bombardier Beetle
Galeritula bicolor
Passalus; Bess-beetle
Popillius disjunctus
Tumblebug; Dung Beetle
Glaphyrocathus viridis
Flower Scarab Beetle
Trichiotinus piger
Scarab Beetle
Valgus sp.
Soft-bodied Plant Beetle
Philodactyla sp.
Click Beetle
Agriotes sp.
Soldier Beetle
Chaetognathus marginatus
Podabrus sp.
Long-jointed Bark Beetle
Aethromacra aenea
Comb-clawed Beetle
Isomira sericea
Handsome Fungus Beetle
Stenotaraxus sp.
Dusky Lady Beetle
Scymnus sp.
Pleasing Fungus Beetle
Triphax thoracica
Shining Flower Beetle
Acyclomus piceus
Flower Longhorn Beetle
Typocerus sp.
Longhorn Beetle
Hyperplatys maculatus
Shining Leaf Beetle
Lema albini
Oval Leaf Beetle
Paria canella gilvipes

Skeletonizing Leaf Beetle
Galerucella notulata
12-spotted Cucumber Beetle
Diabrotica duodecimpunctata
Flea Beetle
Altica sp.
Systema taeniatia
Eastern Tailed-blue (butterfly)
Evers comyntas
American Snout (butterfly)
Libythea carinenta
Mourning Cloak
Nymphalis antiopa
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Hackberry Emperor (butterfly)
Asterocampa celis
Carolina Satyr (butterfly)
Hermeupychia sosybius
Marbled Salamander
Ambystoma opacum
Ground Skink
Scincella lateralis
Sharp-shinned Hawk
Accipiter striatus
Wild Turkey
Meleagris gallopavo
Yellow-billed Cuckoo
Coccyzus americanus
Red-bellied Woodpecker
Melanerpes carolinus
Pileated Woodpecker
Dryocopus pileatus
Acadian Flycatcher
Empidonax virens
Tufted Titmouse
Parus bicolor
Wood Thrush
Hylocichla ustulata
Red-Eyed Vireo
Vireo olivaceus
Northern Parula
Parula americana
White-tailed Deer (scat)
Odocoileus virginianus



(Photo by L. Smith)
Horse-balm, *Collinsonia canadensis*.



(Photo by L. Smith)
Mountain-laurel,
Kalmia latifolia.



(Photo by B. Gilbert)
Mayapple, *Podophyllum*
peltatum.



Lee County

Lee State Park

Lee County

September 26, 1987, and August 24, 1991

This park offers the full range of sandhills habitat from floodplain to sand ridge turkey oak-longleaf pine areas. The nature trail skirts small ponds and then climbs to the more sandy areas. In addition there is a sandhills trail through classic turkey oak-longleaf pine habitat. To fully experience the floodplain, walking or driving the loop road provides access except during high water on the Lynch River. The list shows the diversity of plant material and associated animal life in these habitats.

Directions to Lee State Park: From Columbia, take I-20 east toward Florence, and turn north at Exit 123 onto County Road S 31-22. Drive 1.2 miles to the park entrance on the left.



FLORA

Lichen

Graphis scripta
Graphis elegans
Bacidia laurocerasi
Letroitia domingense
Cladonia rangiferina
Cladonia bacillaris
Cladonia beaumontii
Cladonia calycanthae
Cladonia caroliniana
Cladonia chlorophaea

Cladonia coniocraea
Cladonia cristatella scyphulifera
Cladonia cristatella cristatella
Cladonia didyma
Cladonia incrassata
Cladonia macilentia
Cladonia parasitica
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subpertusa
Pertusaria ophthalmita
Lecanora miculata
Lecanora pallida cancriformis

Lecanora varia
Tephromela atra
Bulbothrix goebelii
Parmelia rudecta
Parmelia dissecta
Parmelia horrescens
Parmotrema hypotropum
Parmotrema xanthinum
Pseudoparmelia caroliniana

Ramalina willeyi
Usnea strigosa
Buellia punctata
Buellia stillingiana
Physcia alpicola
Physcia subcinerea
Physconia enteriantha
Caloplaca campidii
Trypetelium tropicum

Lee State Park (continued)
September 26, 1987, and August 24, 1991

Sand Spikemoss
Selaginella arenicola
Cinnamon Fern
Osmunda cinnamomea
Southern Lady Fern
Adiantum asplenifolium
Netted Chain Fern
Woodwardia arcolata
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Cane; Switch Cane
Arundinaria gigantea
Spike Grass
Uniola sessiliflora
River Oats
Uniola latifolia
Dulichium (sedge)
Dulichium arundinaceum
Spike-rush
Eleocharis tuberculosa
Sedge
Carex sp.
Yellow-eyed-grass
Xyris sp.
Spanish-moss
Tillandsia usneoides
Asian Spiderwort
Anemone hepatica
Bamboo Smilax
Smilax laurifolia
Bear-grass
Yucca filamentosa
Yellow Star-grass
Hypoxis hirsuta
Downy Rattlesnake-plantain
Goadardia pubescens
Crane-fly Orchid
Tipularia discolor
Lizard's-tail
Saururus cernuus
Swamp Cottonwood
Populus heterophylla
Wax-myrtle; Southern Bayberry
Myrica cerifera
Mockernut Hickory
Carya tomentosa
Tag Alder
Alnus serrulata
River Birch
Betula nigra
American Hornbeam; Ironwood
Carpinus caroliniana
White Oak
Quercus alba
Post Oak
Quercus stellata
Scrubby Post Oak
Quercus margaretta

Swamp Chestnut Oak
Quercus michauxii
Turkey Oak
Quercus laevis
Scarlet Oak
Quercus coccinea
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
Red Mulberry
Morus rubra
False Nettle
Boehmeria cylindrica
Heartleaf
Hexastylis arifolia
Polygonum
Polygonum sp.
Jointweed
Polygonella polygama
Pokeweed; Pokeberry
Physalis americana
Whitlow-wort
Paronychia herniarioides
Wire-plant
Stipulicida setacea
Tulip-poplar
Liriodendron tulipifera
Sweetbay
Magnolia virginiana
Dwarf PawPaw
Asimina parviflora
Redbay
Persea borbonia
Sassafras
Sassafras albidum
Virginia-willow
Ittea virginica
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana
Hawthorn
Crataegus sp.
Creeping Bush-clover
Lespedeza repens
Goat's-rue
Cynanchum virginiana
Butterfly-pea
Cytisus marianus
Galactia
Galactia sp.
Poison-ivy
Rhus radicans
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
American Holly
Ilex opaca

Hearts-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Pineweed
Hypericum gentianoides
Pale Meadow-beauty
Rhexia mariana
Water-willow
Ludwigia decurrens
Trailing Ludwigia
Ludwigia palustris
Blackgum
Nyssa sylvatica
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Sweet Pepperbush
Clethra alnifolia
Spotted Wintergreen
Chimaphila maculata
Pinxter-flower; Pinxter-bloom
Rhododendron nudiflorum
Fetterbush
Lyonia lucida
Dog-hobble
Leucothoe axillaris
Sourwood
Oxydendron arboreum
Dwarf Huckleberry
Gaylussacia dumosa
Huckleberry
Gaylussacia sp.
Sparkleberry
Vaccinium arboreum
Elliott's Blueberry
Vaccinium ellii
Low-bush Blueberry
Vaccinium vacillans
Persimmon
Diopatra virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Yellow Jessamine
Gelsemium sempervirens
Polypremum
Polypremum procumbens
Bonamia
Bonamia sp.
Beautyberry
Callicarpa americana
Glecoma
Glecoma hederacea
Lycopus
Lycopus sp.
Gerardia
Agalinis linifolia
Cross Vine
Androstichus capreolata
Bladderwort
Utricularia sp.

Button-bush
Cephalanthus occidentalis
Virginia Buttonweed
Diodia virginiana
Poor-jo (or Po-jo)
Diodia teres
Richardia
Richardia sp.
Partridge-berry
Mitchella repens
Oldenlandia
Oldenlandia uniflora
Wahlenbergia
Wahlenbergia marginata
Cardinal-flower
Lobelia cardinalis
Lobelia
Lobelia elongata
Hawkweed
Hieracium gronovii
Elephant's-foot
Elephantopus tomentosus
Carphephorus
Carphephorus belfordii
Mistflower; Ageratum
Eupatorium coelestinum
Sweet Goldenrod
Solidago odora
Goldenrod
Solidago sp.
Acanthospermum
Acanthospermum australe
Eclipta
Eclipta alba
Orange Earth-tongue
Microglossum rufum
Carbon-balls (fungus)
Daldinia concentrica
Dead-man's-fingers
Xylaria polymorpha
Cauliflower Mushroom
Sparassis spathulata
Varnish Shelf
Ganoderma curtisii
Turkey-tail
Trametes versicolor
Crowded Parchment
Stereum complicatum
Yellow Blusher
Amanita flavorubescens
Bolete
Boletus curtisii
Boletus erythropus
Old-man-of-the-woods
Strobilomyces floccopus
Painted Suillus
Suillus pictus
Silvery-violet Cort
Cortinarius albiovivaceus
Chanterelle Waxy-cap
Hygrophorus cantharellus
Milky (mushroom)
Lactarius sp.
Emetic Russula
Russula emetica
Yellow Russula
Russula lutea

Pectinate Russula
Russula pectinatoides
 Sulfur Tuft (mushroom)
Naematoloma fasciculare
 Ringless Honey Mushroom
Armiliariella tubascens
 Barometer Earthstar
Astraeus hygrometricus
 Earthstar
Scleroderma sp.
 Chocolate-tube Slime
Stemonitis splendens

FAUNA

Crab-shaped Spiny-back
Gasteracantha cancriformis
 Marbled Orb-weaver
Araneus marmoreus
 Boll's Sand Grasshopper
Spharagemon bolli
 Witch Hazel Cone Gall (aphid)
Hormaphis hanamelidis
 Eastern Pondhawk
Erythemis simplicicollis

Great Blue Skimmer
Libellula vibrans
 Blue Dasher
Pachydiplax longipennis
 Meadowfly (dragonfly)
Sympetrum sp.
 Glider
Tramea sp.
 Dung Beetle
Phanaeus igneus
 Eastern Tiger Swallowtail
Papilio glaucus
 Palamedes Swallowtail
Papilio palamedes
 Cloudless Sulphur
Phoebastria sennae eubule
 Sleepy Orange (butterfly)
Eurema nicippe
 Eastern Tailed-blue (butterfly)
Everses comyntas
 American Lady (butterfly)
Vanessa virginensis
 Carolina Satyr (butterfly)
Hermesptychia sosybius
 Polyphemus Moth
Antheraea polyphemus

Southern Toad
Bufo terrestris
 Fowler's Toad
Bufo woodhousei
 Southern Cricket Frog
Acris gryllus
 Yellow-bellied Slider
Chrysemys scripta
 Carolina Anole
Anolis carolinensis
 Eastern Fence Lizard
Sceloporus undulatus
 Red-shouldered Hawk
Buteo lineatus
 Belted Kingfisher
Ceryle alcyon
 Red-bellied Woodpecker
Melanerpes carolinus
 Red-cockaded Woodpecker (sign)
Picoides borealis
 Pileated Woodpecker
Dryocopus pileatus
 Blue Jay
Cyanocitta cristata
 Carolina Chickadee
Parus carolinensis

Yellow-throated Warbler
Dendroica dominica
 Chipping Sparrow
Spizella passerina
 Summer Tanager
Piranga rubra
 Gray Squirrel
Sciurus carolinensis
 White-tailed Deer
Odocoileus virginianus



(Photo by A. Ciegler)

Eastern fence lizard, *Sceloporus undulatus*.

Lynchburg Savanna Heritage Preserve

Lee County
 May 22, 1993

Wet pine savannas are fascinating places. This savanna had its tree population reduced by Hurricane Hugo in 1989, and has had both natural and controlled burns since then. One natural burn occurred about a month before this SCAN visit and was followed by adequate rainfall, demonstrating by the lush new growth, the renewal value of fire. The preserve abounds in insectivorous plants, *Zenobia* in full bloom in late May, grasses, sedges, rushes, orchids, and plenty of animal life. This is a large preserve with two gates about a quarter of a mile apart which resulted, accidentally, in two different field trips for a part of the day. Fortunately, near noon, one half of the attending members spotted the other half and finished the trip together, each group having something special to show the other. It also meant there were more observations for the flora and fauna list.

Directions to Lynchburg Savanna Heritage Preserve: From Columbia, take I-20 east toward Florence, and turn south at Exit 120 onto SC 341. After 3 miles (Wisacky Crossroads) fork right onto SC 527; drive 3 miles farther to Elliott. Turn left onto US 401, then immediately right onto S 31-53 and drive 4.5 miles south. As soon as you see a fire tower, turn right onto S 31-327; do not pass the fire tower. Lynchburg Savanna is about one mile past the intersection on the right, with two parallel dirt tracks as entrances.



Lynchburg Savanna Heritage Preserve (continued)

May 22, 1993

FLORA

Lichen

Lecidea mutabilis
Melaspila octomera
Melaspila sp.
Lecidea russula
Lecidea sp.
Cladonia cristatella cristatella
Cladonia cristatella vestita
Cladonia cristatella pleurocarpa
Cladonia polycarpoides
polycarpoides
Cladonia sp.
Pertusaria texana
Pertusaria sp.
Maronea constans
Haematomma puniceum
Lecania fuscella
Lecanora capressi
Lecanora varia
Lecanora sp.
Ochrolechia africana
Bulbothrix confederata
Bulbothrix isidica
Hypotrachyna formosana
Hypotrachyna livida
Parmelia aurelenta
Parmotrema crinitum
Parmotrema hypotropum
Parmotrema mellissii
Parmotrema nicholsonianum
Parmotrema michauxianum roseum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema robustum
Parmotrema stipitem
Parmotrema subinctorium
Parmotrema xanthinum
Casoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Rimelia cetrata
Rimelia subisidiosa
Ramalina americana
Usnea strigosa
Buellia dialyta
Buellia disciformis
Physcia millegrana
Pyxine caesiopruinosa
Arthothelium sp.
Southern Bog Clubmoss
Lycopodium adpressum
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Virginia Chain Fern
Woodwardia virginica
Long-leaf Pine
Pinus palustris

Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Pond-cypress
Taxodium ascendens
Toothache Grass
Cenium aromaticum
Panic Grass
Panicum sp.
Broomsedge
Andropogon sp.
Sedge
Carex walteriana
Arrowleaf Arum
Peltandra virginica
Yellow-eyed-grass
Xyris sp.
Bog-buttens
Lachnocaulon anceps
Greenbrier; Catbrier
Smilax sp.
Colic-root
Aleris farinosa
Black Snakeroot
Zigadenus densus
Yellow Star-grass
Hypoxis hirtuta
Hypoxis sp.
Blue-eyed-grass
Syrinchium sp.
Grass-pink
Calopogon pulchellus
Grass-leaved Ladies'-tresses
Spiranthes praecox
Willow
Salix humilis
Wax-myrtle; Southern Bayberry
Myrica cerifera
Swamp Bayberry
Myrica heterophylla
Black Jack Oak
Quercus marilandica
Water Oak
Quercus nigra
Running Oak
Quercus punctata
Willow Oak
Quercus phellos
Sweetbay
Magnolia virginiana
Sassafras
Sassafras albidum
Trumpet Pitcher-plant
Sarracenia flava
Hooded Pitcher-plant
Sarracenia minor
Sundew
Drosera leucantha
Drosera capillaris
Sweet-gum
Liquidambar styraciflua
Cinquefoil; Five-fingers
Potentilla sp.

Dewberry

Rubus trivialis
Blackberry; Brambles
Rubus sp.
Red Chokeberry
Sorbus arbutifolia
Black Cherry; Wild Cherry
Prunus serotina
Wild Indigo
Baptisia sp.
Samson Snakeroot
Psoralea psoraloides
Orange Milkwort
Polygala lutea
Spurge
Euphorbia curtisii
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
Titi
Cyrtilla racemiflora
Inkberry
Ilex glabra
Red Maple
Acer rubrum
Hypericum
Hypericum sp.
Violet
Viola sp.
Pale Meadow-beauty
Rhexia mariana
Sundrops
Oenothera fruticosa
Mermaid-weed
Proserpinaca pectinata

Button Snakeroot

Eryngium yuccifolium
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Sweet Pepperbush
Clethra alnifolia
Honey-cup
Zenobia pulverulenta
Maleberry
Lyonia ligustrina
Fetterbush
Lyonia lucida
Staggerbush
Lyonia mariana
Dangleberry
Gaylussacia frondosa
Low-bush Blueberry
Vaccinium tenellum
Persimmon
Diospyros virginiana
Indian-hemp
Apocynum cannabinum
Narrowleaf Milkweed
Asclepias verticillata
Milkweed
Asclepias longifolia
Common Skullcap
Scutellaria integrifolia
Mountain Mint
Pycnanthemum sp.
Lousewort
Pedicularis canadensis
Trumpet Vine
Campsis radicans
Butterwort
Pinguicula caerulea



(Photo by L. Smith)

Carolina wolf spider, *Lycosa carolinensis*.

Wiry Bladderwort*Utricularia subulata***Bluests***Houstonia caerulea***Possumhaw Viburnum***Viburnum nudum***Lobelia***Lobelia nuttallii***Leopard's-bane***Arnica acaulia***Sun-bonnets***Chaptalia tomentosa***Thistle***Carduus spinosissimus***Dog-fennel***Eupatorium capillifolium**Eupatorium compositifolium***Sea-myrtle; Groundsel-tree***Baccharis halimifolia***Swamp Fleabane***Erigeron vernus***Silphium***Silphium sp.***Coreopsis***Coreopsis sp.***FAUNA****Carolina Wolf Spider***Lycosa carolinensis***Blackgum Capsule Gall Mite***Eriophyes nyssae***Persimmon Warty Leaf Gall***Trioza diospyri***Gall (wasp)***Andricus petiolicola***Marbled Oak Gall (wasp)***Andricus pisiformis***Oak Stem Gall (wasp)***Disholcaspis spongiosa***Oak Bullet Gall (wasp)***Disholcaspis sp.***Fire Ant***Solenopsis sp.***Maple Leaf Spot Gall (midge)***Cecidomyia ocellaris***Blue Dragonlet***Erythrodiplex minuscula***Painted Skimmer***Libellula semifasciata***Violet-masked Glider***Tramea carolina***Pedunculate Ground Beetle***Ardistomis viridis***Predacious Diving Beetle***Laccophilus fasciatus**Laccophilus schwarzi**Bidessus sp.**Hydroporus lobatus**Hydroporus hybridus**Copelatus chevrolati chevrolati**Copotomus interrogatus***Burrowing Water Beetle***Hydrocanthus irlorum***Whirligig Beetle***Dineutus carolinus***Water Scavenger Beetle***Tropisternus lateralis nimbatus**Berosus pantherinus**Paracymus subcupreus**Enochrus sublongus***Soldier Beetle***Chauliognathus marginatus***Tumbling Flower Beetle***Mordella melana***Spotted Lady Beetle***Coleomegilla maculata***Seven-spotted Lady Beetle***Coccinella septempunctata***Flower Longhorn Beetle***Typocerus sp.***Oval Leaf Beetle***Paria canella gilvipes***Bud Weevil***Rhynchites genus***Baptisia-pod Weevil***Apion rostrum***Pear-shaped Weevil***Apion sp.***Eastern Tailed-blue(butterfly)***Everes comyntas***Painted Lady (butterfly)***Vanessa cardui***Common Buckeye (butterfly)***Junonia coenia***Chorus Frog***Pseudacris sp.***Spotted Turtle***Clemmys guttata***Redbelly Water Snake***Nerodia erythrogaster***Turkey Vulture***Cathartes aura***Black Vulture***Coragyps atratus***Red-tailed Hawk***Buteo jamaicensis***Northern Bobwhite***Colinus virginianus***Mourning Dove***Zenaidura macroura***Eastern Screech-owl***Onus asio***Red-bellied Woodpecker***Melanerpes carolinus***Red-headed Woodpecker***Melanerpes erythrocephalus***Northern Flicker***Colaptes auratus***Downy Woodpecker***Picoides pubescens***Eastern Kingbird***Tyrannus tyrannus***Great Crested Flycatcher***Myiarchus cinerascens***Blue Jay***Cyanocitta cristata***American Crow***Corvus brachyrhynchos***Fish Crow***Corvus ossifragus***Carolina Chickadee***Parus carolinensis***Brown-headed Nuthatch***Sitta pusilla***Carolina Wren***Thryothorus ludovicianus***Blue-gray Gnatcatcher***Polioptila caerulea***Eastern Bluebird***Sialia sialis***Loggerhead Shrike***Lanius ludovicianus***Gray Catbird***Dumetella carolinensis***Northern Mockingbird***Mimus polyglottos***Brown Thrasher***Toxostoma rufum***Yellowthroat***Geothlypis trichas***Yellow-breasted Chat***Icteria virens***Indigo Bunting***Passerina cyanea***Rufous-sided Towhee***Pipilo erythrophthalmus***Field Sparrow***Spizella pusilla***Chipping Sparrow***Spizella passerina***Red-winged Blackbird***Agelaius phoeniceus***Brown-headed Cowbird***Molothrus ater***Common Grackle***Quiscalus quiscula***Orchard Oriole***Icterus spurius***Summer Tanager***Piranga rubra***Raccoon (tracks)***Procyon lotor***Bobcat; Wildcat (tracks)***Felis rufus***White-tailed Deer (tracks)***Odocoileus virginianus*Spotted turtle, *Clemmys guttata*.

(Photo by L. Smith)

Mt. Pleasant Church Bay Heritage Preserve

Lee County

August 24, 1991

This is a bay that can be explored only by getting your feet wet, or visiting only in very dry drought conditions which would not give a normal view of this spectacular bay. The trees associated with this bay are only around the edges with a few cypress scattered across the wet areas creating an open sunny bay. The water usually ranges from about ankle to calf deep. Since most of the spectacular plants bloom in the heat of the summer, the water on your feet is a bonus! Many of the plants found here are rare and unusual, even for bays; for example, there are four species of milkwort (*Polygala*), *Oxypolis canbyi*, and hooded pitcher plant. It is possible that this bay hosts the rare pine barrens treefrog.

Directions to Mt. Pleasant Church Bay Heritage Preserve: From Columbia, take I-20 east toward Florence, and turn south at Exit 120 onto SC 341. After 3 miles (Wisacky Crossroads) fork right onto SC 527; drive 3 miles farther to Elliott. Continue on SC 527 (right fork) for 2.6 miles more, and then turn left onto S 31-44. Mt. Pleasant Church Bay is between S 31-278 and S 31-53 on the left. Park and walk north on a dirt road along a field for a quarter of a mile, and then turn right into the bay.



FLORA

Lichen

- Coccocarpia erythraei*
Cladonia calycantha
Cladonia diadema
Cladonia leporina
Pertusaria parvibulbifera
Pertusaria texana
Lecanora miculata
Lecanora viridis
Ochrolechia africana
Candelaria concolor
Cetraria ciliaris
Hypotrachyna livida
Parmelia radecta
Parmotrema hypotrachum
Parmotrema perforatum
Parmotrema strappum
Parmotrema tinctorum
Pseudovernia cincticincta
Pseudoparmelia caperata
Pseudoparmelia caroliniana
Usnea strigosa
Usnea punctata
Pyxine coccoparvina
Rhodocia sp.

Cinnamon Fern

- Osmunda cinnamomea*
Bracken
Pteridium aquilinum
Virginia Chain Fern
Woodsia virginica
Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Pond-cypress
Taxodium ascendens
Cane; Switch Cane
Arundinaria gigantea
Smut Grass
Sporobolus poiratii
Umbrella-grass
Fuirena squarrosa
Beak-rush
Rhynchospora corniculata
Rhynchospora cephalantha
Rhynchospora filifolia
Rhynchospora torreyana
Rhynchospora perplexa
Nut-rush
Scleria triglomerata
Sedge
Carex glaucescens
Dayflower
Commelina communis

Black Willow

- Black Alder
Salix nigra
Wax-myrtle; Southern Bayberry
Myrica cerifera
Mockernut Hickory
Carya tomentosa
Post Oak
Quercus stellata
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Blue-Jack Oak
Quercus incana
Running Oak
Quercus pumila
Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
False Nettle
Boehmeria cylindrica
Sweetbay
Magnolia virginiana
Redbay
Persea borbonia
Sassafras
Sassafras albidum
Hooded Pitcher-plant
Sarracenia minor

Sunday

- Sundew
- Drosera capillaris*
- Drosera* sp.
- Sweet-gum
- Liquidambar styraciflua*
- Red Chokeberry
- Sorbus arbutifolia*
- Black Cherry; Wild Cherry
- Prunus serotina*
- Mimosa; Silk-tree
- Albizia julibrissin*
- Sicklepod
- Cassia obtusifolia*
- Wild Sensitive-plant
- Cassia niticans*
- Pencil-flower
- Stylsanthes biflora*
- Creeping Bush-clover
- Lespedeza repens*
- Bush-clover
- Lespedeza hirta*
- Bladderpod
- Glottidium vesicarium*
- Climbing Butterfly-pea
- Centrosema virginianum*
- Chinaberry
- Melia azedarach*
- Polygala
- Polygala grandiflora*
- Polygala mariana*

Drum-heads
Polygala cruciata
 Orange Milkwort
Polygala lutea
 Pine-barren Milkwort
Polygala cymosa
 Croton
Croton glandulosus septentrionalis
 Three-seeded Mercury
Acalypha sp.
 Flowering Spurge
Euphorbia corollata
 Poison-oak
Rhus toxicodendron
 Winged Sumac
Rhus copallina
 Myrtle-leaved Holly
Ilex cassine myrtifolia
 Inkberry
Ilex glabra
 Red Maple
Acer rubrum
 Devil's-shoestring
Sida rhombifolia
 St.-Peter's-wort
Hypericum stans
 Pineweed
Hypericum gentianoides
 Pin-weed
Lechea sp.
 Passionflower; Maypops
Passiflora incarnata
 Smooth Meadow-beauty
Rhexia alifanus
 Pale Meadow-beauty
Rhexia mariana
 Seed-box
Ludwigia alternifolia
 Narrow-leaved Ludwigia
Ludwigia linearis
 Ludwigia
Ludwigia pilosa
 Common Evening-primrose
Oenothera biennis
 Sundrops
Oenothera fruticosa
 Devil's-walking-stick
Aralia spinosa
 Oxypolis
Oxypolis filiformis
Oxypolis sp.
 Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
 Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
 Sweet Pepperbush
Clethra alnifolia
 Honey-cup
Zenobia pulverulenta
 Fetterbush
Lyonia lucida
 Staggerbush
Lyonia mariana
 Dangleberry
Gaylussacia frondosa
 Persimmon
Diospyros virginiana

Horse-sugar; Sweetleaf
Symplocos tinctoria
 Sabatia
Sabatia difformis
Sabatia campanulata
 Brazilian Vervain
Verbena braziliensis
 Mountain Mint
Pycnanthemum flexuosum
 Horse-nettle
Solanum carolinense
 Seymeria
Seymeria cassioides
 Gerardia
Agalinis linifolia
 Purple Gerardia
Agalinis purpurea
 Trumpet Vine
Campsis radicans
 Purple Bladderwort
Utricularia purpurea
 English Plantain
Plantago lanceolata
 Virginia Buttonweed
Diodia virginiana
 Poor-jo (or Po-jo)
Diodia teres
 Richardia
Richardia brasiliensis
 Mexican-clover
Richardia scabra
 Japanese Honeysuckle
Lonicera japonica
 Creeping Cucumber
Melothria pendula
 Wahlenbergia
Wahlenbergia marginata
 Lobelia
Lobelia boykinii
Lobelia nuttallii
 Common Ragweed
Ambrosia artemisiifolia
 Ironweed
Vernonia angustifolia angustifolia
 Elephant's-foot
Elephantopus sp.
 Blazing-star
Liatris spicata
Liatris spicata resinosa
 Eupatorium
Eupatorium recurvans
 False Hoarhound
Eupatorium rotundifolium
 Marsh-fleabane
Pluchea rosea
 Horseweed; Mare's-tail
Erigeron canadensis canadensis
 Aster
Aster squarrosus
 Frost Aster
Aster pilosus pilosus
 Sweet Goldenrod
Solidago odora
 Tall Goldenrod
Solidago altissima
 Rayless Goldenrod
Chondrophora nudata

Bitterweed
Helenium autumnum
 FAUNA
 Green Lynx Spider
Peuceia viridans
 Elegant Crab Spider
Xysticus elegans
 Common Meadow Katydid
Orchelimum vulgare
 Cattail Toothpick Grasshopper
Leptysma marginicollis
 American Bird Grasshopper
Schistocerca americana
 Buceates Katydid
Buceates malivolans
 Assassin Bug
Pygodelphus pectoralis
 Common Green Darner (shell)
Anax junius
 Eastern Pondhawk
Erythemis simplicicollis
 Blue Dragonlet
Erythemis blanda
 Blue Dasher
Pachydiplax longipennis

Violet-masked Glider
Tramea carolina
 Swamp Spreadwing (damselfly)
Lestes vigilax
 Blackwater Bluet (damselfly)
Enallagma weewa
 Four-spotted Blister Beetle
Tetraonyx sp.
 Treefrog
Hyla sp.
 Eastern Mud Turtle
Kinosternon subdramum
 King Rail
Rallus elegans
 Blue Jay
Cyanocitta cristata
 Carolina Chickadee
Parus carolinensis
 Gray Catbird
Dumetella carolinensis
 Rufous-sided Towhee
Pipilo erythrophthalmus
 Field Sparrow
Spizella pusilla
 White-tailed Deer (tracks)
Odocoileus virginianus



(Photo by A. Ciegler)

Honey-cup, *Zenobia pulverulenta*.



(Photo by L. Smith)

Swamp spreadwing (damselfly), *Lestes vigilax*.



(Photo by L. Ciesla)

Sundew, *Drosera capillaris*.



Lexington County

Lake Murray Spillway

Lexington County

November 21, 1987

This spillway is cut into the rock that underlies this portion of Lexington County. It creates a vertical cross-section that shows the effects of geologic action, especially metamorphism. These views are usually restricted to manmade cuts such as this spillway or a roadcut. In addition, the testing and water control have scoured a rocky riverbed and have developed a rich system of flora and fauna. Because of the steep sides of the spillway and rough nature of the rocks, it takes a moderately strenuous effort to explore this site.

Private property. Owned by SCE&G, Inc.

Directions to Lake Murray Spillway: From I-20 west of Columbia, take Exit 55 onto SC 6 north. Go about 2.9 miles past the intersection where US 378 splits off to the right. The Lake Murray Spillway can be reached (with advance permission) via SCE&G's private road between Corley Mill Road and the south end of the dam. From I-26 west of Columbia, take Exit 102 onto SC 60 and go south through Irmo about 5.7 miles.



FLORA

Cinnamon Fern
Osmunda cinnamomea
Mosquito Fern
Azolla caroliniana
Loblolly Pine
Pinus taeda
Eastern Red-cedar
Juniperus virginiana
Common Cat-tail
Typha latifolia
Spike Grass
Uniola seculiflora
Love Grass
Eragrostis sp.
Broomsedge
Andropogon virginicus
Andropogon sp.
Yellow-eyed-grass
Xyris sp.
Ladies'-tresses
Spiranthes sp.
Black Willow
Salix nigra
Eastern Cottonwood
Populus deltoides

Wax-myrtle; Southern Bayberry
Myrica cerifera
Tag Alder
Alnus serrulata
White Oak
Quercus alba
Water Oak
Quercus nigra
Alligator-weed
Alternanthera philoxeroides
Pokeweed; Pokeberry
Phytolacca americana
Sweet-gum
Liquidambar styraciflua
Mimosa; Silk-tree
Albizia julibrissin
Poison-ivy
Rhus radicans
Red Maple
Acer rubrum
Water-willow
Ludwigia decurrens
Seed-box
Ludwigia alternifolia
Evening-primrose
Oenothera sp.
Water-milfoil
Myriophyllum brasiliense

Privet; Ligustrum
Ligustrum japonicum
Yellow Jessamine
Gelsemium sempervirens
Sea-myrtle; Groundslee-tree
Baccharis halimifolia
Aster
Aster sp.
Goldenrod
Solidago sp.

FAUNA

Two-keeled Valve Snail
Valvata bicarinata

Freshwater Snail
Physella sp.
Asiatic Clam
Corbicula fluminea
Chinese Mantis
Tenodera aridifolia sinensis
Yellowjacket
Vespula sp.
Blackfly (larva)
Simulium sp.
Eastern Fence Lizard
Sceloporus undulatus
Turkey Vulture
Cathartes aura



(Photo by V. Wint)
Yelow Jessamine,
Gelsemium sempervirens.

Peachtree Rock Heritage Preserve

Lexington County

December 9, 1989

This preserve has a number of unusual geologic features. The peach tree-shaped rock for which it is named is soft sandstone and clay protected by a silicified layer on top which is weather resistant. There is also a waterfall caused by a creek that flows across the hard layer, cutting deeply into an area not so well protected. That the preserve was formerly part of a marine environment is evidenced by the marine fossils found at the site. (Collecting is not allowed.) Fossilized remains of marine worm and ghost shrimp burrows can be seen below the waterfall. There is also a very classic sandhills type habitat with white sand and a population of plants not widely distributed but found at the most extreme of these sandhill sites. The flora and fauna list for this trip was severely restricted by the ice storm that occurred the night before the trip.

Directions to Peachtree Rock Heritage Preserve:

From I-26 southwest of Columbia, take Exit 113, Airport Boulevard (SC 302), past the Columbia Airport to Edmund, where SC 6 joins from the right. Continue on SC 302 for another mile (total of 11.5 miles from the interstate exit), and follow SC 6 where it turns left. Go to the second paved road on the left, Bethel Church Road (0.7 miles) and turn left; go to the stop sign and turn right onto a dirt road. The parking lot for Peachtree Rock is on the left side of the dirt road.



FLORA

Lichen

Cladonia leporina
Parmotrema perforatum

Sand Spikemoss

Selaginella arenicola

Hairy Lip Fern

Cheilanthes lanosa

Bracken

Pteridium aquilinum

Blunt-lobed Woodsia

Woodsia obtusa

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Long-leaf Pine

Pinus palustris

Slash Pine

Pinus elliottii

Cane/Switch Cane

Arundinaria gigantea

Bear-grass

Yucca filamentosa

Crane-fly Orchid

Tipularia discolor

Pale Hickory

Carya pallida

White Oak

Quercus alba

Turkey Oak

Quercus laevis

Black Oak

Quercus velutina

Spanish Oak

Quercus falcata

Black Jack Oak

Quercus marilandica

Water Oak

Quercus nigra

Blue-Jack Oak

Quercus incana

Heartleaf

Hexastylis arifolia

Tulip-poplar

Liriodendron tulipifera

Sweetbay

Magnolia virginiana

Sweet-shrub; Carolina-allspice

Calycanthus floridus

Redbay

Persea borbonia

Sassafras

Sassafras albidum

Sweet-gum

Liquidambar styraciflua

Red Chokeberry

Sorbus arbutifolia

Hawthorn

Crataegus sp.

Black Cherry; Wild Cherry

Prunus serotina

Goat's-rue

Tephrosia virginiana

Poison-oak

Rhus toxicodendron

Tit

Cyrtilla racemiflora

American Holly

Ilex opaca

Red Maple

Acer rubrum

St.-Andrew's-cross

Hypericum hypericoides

St.-John's-wort

Hypericum lloydii

Prickly-pear

Opuntia compressa

Flowering Dogwood

Cornus florida

Sweet Pepperbush

Clethra alnifolia

Rosemary

Cerastium ericoides

Spotted Wintergreen

Chimaphila maculata

Indian-pipe

Monotropa uniflora

Pinxter-flower; Pinxter-bloom

Rhododendron nudiflorum

Sand-myrtle

Leptophyllum buxifolium

Mountain-laurel

Kalmia latifolia

Fetterbush

Lyonia lucida

Leucothoe recurva

Coastal Honeybells

Leucothoe racemosa

Sparkleberry

Vaccinium arboreum

Persimmon

Diospyros virginiana

Horse-sugar; Sweetleaf

Symplocos tinctoria

Yellow Jessamine

Gelsemium sempervirens

False Foxglove

Aureolaria pectinata

Peachtree Rock Heritage Preserve December 9, 1989

Partridge-berry

Mitchella repens
Maple-leaf Viburnum
Viburnum acerifolium

Dog-fennel

Eupatorium capillifolium
Aster

Aster concolor
Cereopsis

Coreopsis major

Sweet Tooth

Dentaria repandum

Varnish Shelf

Ganoderma curtisii

Turkey-tail

Trametes versicolor

Puffball

Lycoperdon sp.

Barometer Earthstar

Astraeus hygrometricus

FAUNA

W.I. Ghost Shrimp (burrows)

Callinassa major

Pipe-organ Wasp

Trypoxylon pollinum

Soft-winged Flower Beetle

Attalus scincerus

Hickory Girdler Beetle

Oncideres cingulata

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Evergreen Bagworm Moth

Thyridopteryx ephemeraeformis

Southern Flannel Moth

Megalopyge opercularis

Eastern Tent Caterpillar

Malacosoma americanum

Fall Webworm Moth

Hyphantria cunea

Shrew

Blarina sp.



(Photo by L. Greenlee)

Peachtree Rock, Lexington
County, Sandhills region.



Marlboro County

Lake Wallace and Pledger Creek

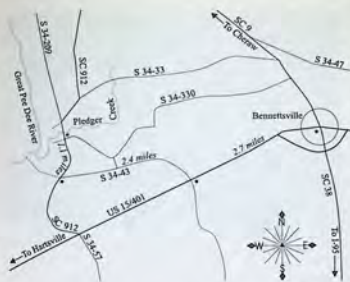
Marlboro County

August 25, 1990

Lake Wallace is primarily oriented toward water activities, and one of the lesser-known activities here is nature watching. The north end of the lake has a waterfowl refuge with wood duck boxes and a "beauty spot" nature trail. This portion of the lakeside and lake provides a wide diversity of plants and animals. While none of the species encountered were rare, the diversity and aesthetics of the trail made the trip most enjoyable. The city of Bennettsville is to be commended for maintaining this area for a wide diversity of water-oriented activities.

Directions to Lake Wallace: Bennettsville may be reached from I-95, exit 181, north on SC 38; or from I-20, exit 116, north via Bishopville on US 15. In Bennettsville, from the intersection of Main Street (SC 385) and SC 38, take SC 385 north. Go 0.6 mile, watch for the Whitner-Evans Funeral Home, and turn left at the sign to Lake Wallace, staying on SC 385 (Gibson Highway). Drive about a mile and turn left again at another sign for the lake.





Pledger Creek offers a look at shallow-water plants and animals. Many insects were utilizing the water or visiting from drier areas to feed on the flowers of the aquatic species. The list demonstrates that a large number of plants and animals were found in the hour SCAN spent at this site.

Directions to Pledger Creek: From the center of downtown Bennettsville, take US 401/US 15 southwest toward Hartsville and Darlington. Drive 2.7 miles, then turn right (north) onto County Road 43. Go 2.4 miles to the junction with SC 912 and turn right (north). After 1.1 miles, SC 912 joins with County Road 209 and intersects S 34-330. The bridge across Pledger Creek is just north of that junction; look for a trail following the creek.

FLORA

Lichen

Lobaria quercizans
Cladonia apodocarpa
Cladonia capitata
Cladonia cristatella
Cladonia floerkeana
Cladonia sp.
Hypotrachyna livida
Parmelia rudecta
Parmelia sulcata
Parmotrema austrosinense
Parmotrema cetratum
Parmotrema dilatatum
Parmotrema hypotropum
Parmotrema perforatum
Parmotrema reticulatum
Tuckermannopsis viridis
Ramalina americana
Usnea strigosa
Physcia alpicola

Bracken

Pteridium aquilinum
 Loblolly Pine
Pinus taeda
 Short-leaf Pine
Pinus echinata

Bald-cypress

Taxodium distichum

Pond-cypress

Taxodium ascendens

Eastern Red-cedar

Juniperus virginiana

Common Cat-tail

Typha latifolia

Bur-reed

Sagittaria arifolium

Spotted Pondweed

Potamogeton pulcher

Arrowhead; Duck-potato

Sagittaria engelmanniana

Foxtail Grass

Setaria sp.

Barnyard Grass

Echinochloa crusgalli

Wool-grass

Scirpus cyperinus

Beak-rush

Rhynchospora chalarocephala
Rhynchospora glomerata
Rhynchospora inexpectata
Rhynchospora sp.

Sedge

Carex glaucescens
Carex lurida

Arrowleaf Arum

Peltandra virginica

Bogmoss

Mayaca eublethii

Yellow-eyed-grass

Xyris sp.

Dayflower

Commelina virginica
Commelina communis

Asian Spiderwort

Anemone keiskei

Greenbrier; Bullbrier

Smilax rotundifolia

Fringed Greenbrier

Smilax bona-nox

Sawbrier; Greenbrier

Smilax glauca

Sweet-scented Smilax

Smilax smallii

Yucca

Yucca sp.

Water-spider Orchid

Habenaria repens

Lizard's-tail

Saururus cernuus

Black Willow

Salix nigra

Pale Hickory

Carya pallida

Tag Alder

Alnus serrulata

River Birch

Betula nigra

White Oak

Quercus alba

Post Oak

Quercus stellata

Overcup Oak

Quercus lyrata

Red Oak

Quercus rubra

Spanish Oak

Quercus falcata

Black Jack Oak

Quercus marilandica

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Laurel Oak

Quercus laurifolia

Sugarberry; Hackberry

Celtis laevigata

Paper Mulberry

Broussonetia papyrifera

Red Mulberry

Morus rubra

Lamb's-quarters; Pigweed

Chenopodium album

Tearthumb

Polygonum sagittatum

Alligator-weed

Alternanthera philoxeroides

Pokeweed; Pokeberry

Phytolacca americana

Spatterdock; Yellow Pond-lily

Nuphar luteum

Water-lily

Nymphaea odorata

Fanwort

Cabomba caroliniana

Water-shield

Brasenia schreberi

Tulip-poplar

Liriodendron tulipifera

Sweetbay

Magnolia virginiana

Dwarf PawPaw

Asimina parviflora

Sassafras

Sassafras albidum

Poor-man's-pepper

Lepidium virginicum

Virginia-willow

Itaia virginica

Sweet-gum

Liquidambar styraciflua

Himalaya-berry

Rubus biflorus

Dwarf Hawthorn

Crataegus uniflora

Black Cherry; Wild Cherry

Prunus serotina

Mimosa; Silk-tree

Albizia julibrissin

Sick-lepod

Cassia obtusifolia

Wild Sensitive-plant

Cassia nictans

Beggar-lice

Desmodium sp.

Creeping Bush-clover

Lespedeza repens

Sericea

Lespedeza cuneata

American Wisteria

Wisteria frutescens

Groundnut

Apios americana

Butterfly-pea

Clipeolium marianum

Kudzu

Pueraria lobata

Tree-of-heaven

Ailanthus altissima

Chinaberry

Melia azedarach

Painted-leaf

Euphorbia heterophylla

Winged Sumac

Rhus copallina

Tili

Cyrilla racemiflora

Lake Wallace and Pledger Creek (continued)

August 25, 1990

American Holly
Ilex opaca
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Devil's-shoestring
Sida rhombifolia
St.-Andrew's-cross
Hypericum hypericoides
St.-John's-wort
Hypericum walteri
Pineweed
Hypericum gentianoides
Passionflower; Maypops
Passiflora incarnata
Prickly-pear
Opuntia compressa
Water Loosestrife
Decodon verticillatus
Pale Meadow-beauty
Rhexia mariana
Common Meadow-beauty
Rhexia virginica virginica
Water-willow
Ludwigia decurrens
Ludwigia
Ludwigia sphaerocarpa
Trailing Ludwigia
Ludwigia palustris
Marsh Pennywort
Hydrocotyle umbellata
Blackgum
Nyssa sylvatica
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Flowering Dogwood
Cornus florida
Sweet Pepperbush
Clethra alnifolia
Dog-hobble
Leucochoe axillaris
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Highbush Blueberry
Vaccinium corymbosum
Persimmon
Diospyros virginiana
Storax; Snowbell
Syrax americana
Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Small Floating-heart
Nymphoides cordata
Compact Dodder
Cuscuta compacta

Hydrolea
Hydrolea quadrivalvis
Heliotrope
Heliotropium amplexicaule
Brazilian Vervain
Verbena brasiliensis
Beautyberry
Callicarpa americana
Horse-nettle
Solanum carolinense
Jimson-weed
Datura stramonium
Lindernia
Lindernia dubia
Woolly Mullein
Verbascum thapsus
Toadflax
Linaris sp.
Trumpet Vine
Campsis radicans
Bladderwort
Utricularia biflora
Button-bush
Cephalanthus occidentalis
Virginia Buttonweed
Diodia virginiana
Poor-jo (or Po-jo)
Diodia teres
Japanese Honeysuckle
Lonicera japonica
Arrowwood
Viburnum dentatum lucidum
Wahlenbergia
Wahlenbergia marginata
Cardinal-flower
Labellia cardinalis
Common Ragweed
Ambrosia artemisiifolia
Common Dandelion
Taraxacum officinale
Elephant's-foot
Elephantopus tomentosus
Dog-fennel
Eupatorium capillifolium
Eupatorium
Eupatorium sp.
Climbing Hempweed
Mikania scandens
Rabbit-tobacco
Gnaphalium obtusifolium
Horsetweed; Mare's-tail
Erigeron sp.
Sweet Goldenrod
Solidago odora
Goldenrod
Solidago sp.
Camphorweed
Heterotheca subaustriaris
Eclipta
Eclipta alba
Spanish-needles
Bidens bipinnata

Bitterweed
Helenium amarum
Citron Amanita
Amanita citrina
Red-cracked Bolete
Boletus chrysenteron
Red Gyroporus
Gyroporus purpurinus

FAUNA

Golden-silk Spider
Nephila clavipes
Writing Spider
Argiope aurantia
Long-jawed Orb-weaver
Tetragnatha sp.
Six-spotted Fishing Spider
Dolomedes triton
Carolina Mantid
Stagmomantis carolina
Eastern Pondhawk
Erythemis simplicicollis
Golden-winged Skimmer
Libellula auripennis
Slaty Skimmer
Libellula incesta
Great Blue Skimmer
Libellula vibrans
Blue Dasher
Pachydiplax longipennis
Eastern Amberwing (dragonfly)
Perithemis tenera
White-tail Dragonfly
Plathemis lydia
Violet-masked Glider
Tramea carolina
Crawling Water Beetle
Haliplus fasciatus
Pelodytes scemaculatus
Pelodytes shermani
Pelodytes sp.
Predacious Diving Beetle
Coptotomus interrogatus
Whirligig Beetle
Dineutus discolor
Gyrinus frossi
Gyrinus analis
Water Scavenger Beetle
Berosus infuscatus
Marsh Beetle
Scirtes orbiculatus
Soldier Beetle
Chauliognathus pennsylvanicus
Fruit Weevil
Anthonomus tectus
Zebra Swallowtail
Eurytides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Sleepy Orange (butterfly)
Eurema nicippe
American Snout (butterfly)
Libytheana carinenta

Variegated Frillitry
Euptoieta claudia
Red Admiral
Vanessa atalanta rubria
Common Buckeye (butterfly)
Junonia coenia
Silver-spotted Skipper
Epargyreus clarus
Fowler's Toad
Bufo woodhousei
Green Frog; Bronze Frog
Rana clamitans
Six-lined Racerunner
Cnemidophorus sexlineatus
Great Egret
Casmerodius albus
Great Blue Heron
Ardea herodias
Mallard
Anas platyrhynchos
Lesser Yellowlegs
Tringa flavipes
Mourning Dove
Zenaidura macroura
Red-bellied Woodpecker
Melanerpes carolinus
Blue Jay
Cyanocitta cristata
Fish Crow
Corvus ossifragus
Carolina Chickadee
Parus carolinensis
Northern Mockingbird
Mimus polyglottos
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Common Grackle
Quiscalus quiscula
Gray Squirrel
Sciurus carolinensis



(Photos by L. Greenlee)

Golden-silk spider, *Nephila clavipes*.



(Photo by L. Greenlee)

Violet-masked glider (saddlebags), *Tramea carolina*.

(Photo by A. Cigler)

Trumpet vine, *Campsis radicans*.

McCormick County

John de la Howe School

McCormick County

April 24, 1988

This school property includes approximately 120 acres of virgin pine-oak forest. The trees are huge, with many species represented. This site has a good representation of understory plants. One unusual shrub found here is leatherwood, which produces a tough, stringy bark that American Indians used to make bow strings. The rolling terrain provides habitats of varying moisture availability, adding to the diversity of plants present.

Privately owned. Access by permission only. Phone: 864-391-2131. No map given.

FLORA

Rattlesnake Grape Fern
Botrychium virginianum
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Eastern Red-cedar
Juniperus virginiana
Jack-in-the-pulpit
Arisaema triphyllum
Bellwort
Uvularia perfoliata
Wild Yam
Dioscorea villosa
Blue-eyed-grass
Spiranthes angustifolia
Downy Rattlesnake-plantain
Goodyera pubescens

Crane-fly Orchid
Tipularia discolor
Black Willow
Salix nigra
Shagbark Hickory
Carya ovata
Hop-hornbeam
Ostrya virginiana
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
White Oak
Quercus alba
Post Oak
Quercus stellata
Swamp Chestnut Oak
Quercus michauxii
Red Oak
Quercus rubra
Black Oak
Quercus velutina
Spanish Oak
Quercus falcata

Willow Oak
Quercus phellos
Heartleaf
Hexastylis arifolia
Meadow-rue
Thalictrum sp.
Tulip-poplar
Liriodendron tulipifera
Dwarf PawPaw
Asimina parviflora
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Yellow Cress
Rorippa islandica
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Hawthorn
Crataegus sp.
Black Cherry; Wild Cherry
Prunus serotina

Redbud; Judas-tree
Cercis canadensis
Violet Wood-sorrel
Oxalis violacea
Wild Geranium
Geranium maculatum
Poison-ivy
Rhus radicans
Hearts-a-bursta'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Southern Sugar Maple
Acer saccharum floridanum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Basswood; Linden
Tilia sp.
Medioli
Mediola caroliniana
Yellow Passionflower
Passiflora lutea

John de la Howe School (continued)

April 24, 1988

Leatherwood

Dicra palustris

Snakeroot

Sanicula sp.

Blackgum

Nyssa sylvatica

Flowering Dogwood

Cornus florida

Spotted Wintergreen

Chimaphila maculata

Deerberry; Squaw-huckleberry

Vaccinium stamineum

Elliott's Blueberry

Vaccinium elliotii

Bigleaf Snowbell

Syrax grandifolia

Ash

Fraxinus sp.

Pennywort

Oblaria virginica

Climbing Dogbane

Trachelospermum difforme

Indian-bemp

Apocynum cannabinum

Angle-pod

Matelea sp.

Lyme-leaved Sage

Salvia lyrata

Toadflax

Linaria canadensis

Cross Vine

Anisostichus capreolata

Button-bush

Cephalanthus occidentalis

Partridge-berry

Mitchella repens

Green-and-gold

Chrysogonum virginianum

Verbesina

Verbesina sp.

Yellow Morel

Morchella esculenta

Dead-man's-fingers

Xylaria polymorpha

Tree-ear

Auricularia auricula

Hophornbeam Disc (fungus)

Aleurodiscus oakesii

Violet-toothed Polypore

Trichaptum biformis

Crowded Parchment

Stereum complicatum

Fly Agaric

Amanita muscaria formosa

Grisette

Amanita vaginata

Oak-loving Collybia

Collybia dryophila

Coral Spring Mycena

Mycena acicula

Oyster Mushroom

Pleurotus ostreatus

FAUNA

Hornbeam Leaf-fold Gall(midge)

Cecidomyia pudibunda

Pedunculate Ground Beetle

Scarites sp.

Minute Ground Beetle

*Bembidion confusum**Bembidion dilatatum*

Dingy Ground Beetle

Agonoderus sp.

Notch-mouthed Ground Beetle

Dicaelus sp.

Crawling Water Beetle

Haliplus triopisus

Water Scavenger Beetle

Benossus sp.

June Beetle

Phyllophaga prunina

Blind Elater

Alaus myops

Net-winged Beetle

Eros humeralis

Soft-winged Flower Beetle

Malachius sp.

Hypebaeus sp.

Lagrid Bark Beetle

Statira sp.

Comb-clawed Beetle

Isomira sericea

Round-necked Longhorn Beetle

*Molochus bimaculatus**Molochus sp.*

Flower Longhorn Beetle

Toxotus cinnamopterus

Hickory Girdler Beetle (sign)

Oncideres cingulata

Leaf Beetle

Anomoea sp.

Broad-bodied Leaf Beetle

Calligrapha rhoda

Oak Flea Beetle

Oedionychis quercata

Flea Beetle

Disonycha abbreviata

Leaf-mining Beetle

Chalepus scapularis

Zebra Swallowtail

Eurytides marcellus

Spicebush Swallowtail

Papilio troilus

Fairy Moth

Adela purpurea

Northern Cricket Frog

Acris crepitans

Carolina Anole

Anolis carolinensis

Canada Goose

Branta canadensis

Red-bellied Woodpecker

Melanerpes carolinus

Downy Woodpecker

Picoides pubescens

Red-Eyed Vireo

Vireo olivaceus

Pine Warbler

Dendroica pinus

Red-winged Blackbird

Agelaius phoeniceus

Summer Tanager

Piranga rubra

(Photo by L. Greenlee)

Flowering dogwood, *Cornus florida*.

Stevens Creek Heritage Preserve McCormick County April 23, 1988, and March 29, 1992

This north-facing slope along the south bank of Stevens Creek is considered one of the best wildflower sites in South Carolina and possibly the entire Southeast. Imagine hillsides in full bloom with almost no bare ground visible, and you have an idea of the scope of this site at peak bloom. These flowers are mostly spring ephemerals, but a few rare shrubs share the spotlight. The dominant tree cover is old-growth hardwoods such as white oak, bitternut hickory and American ash. This plant community probably dates back to the Pleistocene Era as a glacial relict. It is unusual in that the soils are basic, but the parent material is acidic; it is also unusual because it contains so many disjunct species from both northern and southern distributions, and for its many rare species. North-facing slopes harbor a large diversity of plant life. The lack of direct sunlight results in a more constant temperature and soil moisture levels than would otherwise be found.

Directions to Stevens Creek Heritage Preserve:

From Edgefield, drive west on SC 283 for 18 miles to Modoc. Turn left (south) onto US 221/SC 28 and travel 5 miles to the Clarks Hill Dam. Continue straight ahead on SC 28 for 0.3 miles past the intersection where US 221 crosses the dam, then turn left onto County Road 88. Stevens Creek Heritage Preserve is on the left in about a mile, marked by a small sign.



FLORA

Lichen

Collema furfuraceum
Leptogium burnetiae
Leptogium cyanescens
Pannaria rubiginosa
Peltigera canina
Graphis scripta
Graphis mosquitensis
Graphis striatula
Graphis sp.
Glyphis cicuticosa
Phaeographina sp.
Bacidia schweinitzii
Leptogium austroamericanum
Lecidea russula
Lecidea sp.
Cladonia bacillaris
Cladonia balfourii
Cladonia capitata
Cladonia chlorophaea
Cladonia soloritana
Cladonia coniocraea
Cladonia cristatella
Cladonia cristatella cristatella
Cladonia cristatella vestita
Cladonia cristatella squamosissima

Cladonia cristatella pleurocarpa
Cladonia didyma
Cladonia macilenta
Cladonia sp.
Pertusaria neoscotica
Pertusaria leucostoma
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria trachythallina
Pertusaria subperusta
Pertusaria texana
Pertusaria macounii
Pertusaria sp.
Haematomma puniceum
Lecanora lacustris
Lecanora miculata
Ochrolechia africana
Bulbothrix goebelii
Hypotrachyna livida
Parmelia aurulenta
Parmotrema cetratum
Parmotrema crinitum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema reticulatum
Parmotrema subdisiduosum
Parmotrema ultralucens
Pseudoparmelia baltimorensis

Pseudoparmelia caroliniana
Xanthoparmelia plittii
Usnea ceratina
Usnea strigosa
Buellia stigmosa
Buellia callosensis
Buellia coccinea
Physcia americana
Physcia millegrana
Physcia subtilis
Heterodermia speciosa
Heterodermia caesarietina
Phaeoplyscia ciliata
Phaeoplyscia rubropulchra
Caloplyscia citrina
Pyrenula laevigata
Pyrenula mamillana
Pyrenula nitida
Mycoporum compositum
Arthonia sp.
Trypetellum vitreum
Trypetellum sp.
Maidenhair Fern
Adiantum pedatum
Hay-scented Fern
Dennstaedtia punctilobula
Blunt-lobed Woodsia
Woodsia obtusa

Spreading Bladder Fern

Cystopteris protrusa
Marginal Shield Fern
Dryopteris marginalis
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
Mellic Grass
Melica mutica
Jack-in-the-pulpit
Arisaema triphyllum
Spiderwort
Tradescantia hirsuticaulis
Tradescantia sp.
Woodrush
Luzula sp.
Sawbrier; Greenbrier
Smilax glauca

Stevens Creek Heritage Preserve (continued)
April 23, 1988, and March 29, 1992

Trillium
Trillium discolor
Trillium lancolatum
Nodding Trillium
Trillium cernuum
Solomon's-seal
Polygonatum biflorum
Dog's-tooth-violet
Erythronium americanum
Bellwort
Uvularia perfoliata
Uvularia sp.
False Garlic
Allium bivalve
Blue-eyed-grass
Styrinchium albidum
Downy Rattlesnake-plantain
Goodyera pubescens
Bitternut Hickory
Carya cordiformis
Shagbark Hickory
Carya ovata
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
River Birch
Betula nigra
Hop-burnbeam
Ostrya virginiana
American Hornbeam; Ironwood
Carpinus caroliniana
White Oak
Quercus alba
Swamp Chestnut Oak
Quercus michauxii
Red Oak
Quercus rubra
Black Oak
Quercus velutina
Spanish Oak
Quercus falcata
American Elm
Ulmus americana
Winged Elm
Ulmus alata
Sugarberry; Hackberry
Celtis laciniata
Wood-nettle
Laportea canadensis
Stinging Nettle
Urtica chamaedryoides
Wild Ginger
Asarum canadense
Heartleaf
Petasites arifolia
Spring-beauty
Claytonia virginica
Common Chickweed
Stellaria media
Giant Chickweed
Stellaria pubera
Mouse-ear Chickweed
Cerastium nutans

False Rue-anemone
Isopyrum bistratum
Windflower
Thalictrum thalictroides
Small-flowered Crowfoot
Ranunculus abortivus
Buttercup
Ranunculus sp.
Liverleaf
Hepatica americana
Windflower
Anemone lancifolia
Mayapple
Podophyllum peltatum
Tulip-poplar
Liriodendron tulipifera
Southern Magnolia
Magnolia grandiflora
Dwarf PawPaw
Asimina parviflora
PawPaw
Asimina triloba
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Bloodroot
Sanguinaria canadensis
Dutchman's-breeches
Dicentra cucullaria
Yellow Corydalis
Corydalis flava
Toothwort
Cardamine angustata angustata
Hairy Bitter Cress
Cardamine hirsuta
Spiny Gooseberry
Ribes cynosbati
Mock-orange
Philadelphus inodorus
Alumroot
Heuchera americana
Foamflower
Tiarella cordifolia collina
Saxifrage
Saxifraga virginensis
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana
American Sycamore
Platanus occidentalis
Five-fingers
Potentilla canadensis
Potentilla simplex
Southern Crabapple
Malus angustifolia
Littlehip Hawthorn
Crataegus spathulata
Hawthorn
Crataegus sp.

Shadbush; Serviceberry
Amelanchier sp.
Black Cherry; Wild Cherry
Prunus serotina
Redbud; Judas-tree
Cercis canadensis
Bush-clover
Lespedeza sp.
Violet Wood-sorrel
Oxalis violacea
Wild Geranium
Geranium maculatum
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Possumhaw Holly
Ilex decidua
Hearts-a-burstin'-with-love
Euonymus americanus
Bladderhut
Staphylea trifolia
Boxelder
Acer negundo
Southern Sugar Maple
Acer saccharum floridanum
Painted Buckeye
Aesculus sylvatica
Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Basswood; Linden
Tilia caroliniana
St.-Andrew's-cross
Hypericum hypericoides
Green Violet
Hybanthus concolor
Common Blue Violet
Viola papilionacea
Sweet Chervil
Osmorhiza longistylis
Meadow Parsnip
Zizia trifoliata
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Azalea
Rhododendron sp.
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Elliott's Blueberry
Vaccinium elliotii
Shooting-star
Dodecatheon meadia
Creeping-Charlie
Lysimachia nummularia

Persimmon
Diospyros virginiana
Carolina Silverbell
Halesia carolina
Fringe-tree
Chionanthus virginicus
Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Pennywort
Obolaria virginica
Baby-blue-eyes
Nemophila microcalyx
Phacelia
Phacelia dubia
Stoneseed
Lithospermum tuberosum
Lyre-leaved Sage
Salvia lyrata
Shrubby Savory
Satureja georgiana
Cross Vine
Anisostichus capreaeola
Squaw-root
Conopholis americana
Partridge-berry
Mitchella repens
Cleavers
Galium aparine
Bedstraw
Galium sp.
Japanese Honeysuckle
Lonicera japonica
Coral-berry
Symphoricarpos orbiculatus
Rusty Black-haw
Viburnum rufidulum
American Elderberry
Sambucus canadensis
Pale Indian-plantain
Cacalia atriplicifolia
Butterweed
Senecio glabellus
Senecio obovatus
Thistle
Carduus sp.
Pussy-toes
Antennaria plantaginifolia
Green-and-gold
Chrysogonum virginianum australe
Yellow Morel
Morchella esculenta

FAUNA

Almond Millipede
Sigmoria aberrans
Bowl-and-dolly Spider
Frontinella pyramitella
Long-jawed Orb-weaver
Tetragnatha sp.
Wolf Spider
Lycosa sp.
Jumping Spider (large)
Phidippus pucher

Red Velvet Mite
Trombidium sp.
Oak-apple (gall wasp)
Amphibolips inanis
Crawling Water Beetle
Halplus triopis
Pelodytes duodecimpunctatus
Water Scavenger Beetle
Berosus pantherinus
Aphodine Dung Beetle
Ataenius sp.
Garden Beetle
Serica sp.
June Beetle
Phyllophaga sp.
Soldier Beetle
Cantharis sp.
Mallothes sp.
Dermeid Beetle
Cryptorhopalum picicorne
Cryptorhopalum sp.
Soft-winged Flower Beetle
Collops sp.
Lagriid Bark Beetle
Satira sp.
False Ant-like Flower Beetle
Pedilus sp.

Flower Longhorn Beetle
Anoplodera sp.
Leaf Beetle
Coscinoptera dominicana
Oval Leaf Beetle
Paria canella quadrinotata
Skeletonizing Leaf Beetle
Luperodes cyanellus
Oak Flea Beetle
Oedionychis quercata
Grape Flea Beetle
Altica chalybea
Flower Weevil
Centrinaspis sp.
Zebra Swallowtail
Eurytides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Falcate Orangetip
Anthocharis mida
Spring Azure (butterfly)
Celastrina ladon
Pearl Crescent
Phyciodes tharos

Red Admiral
Vanessa atalanta rubria
Fowler's Toad
Bufo woodhousei
Northern Cricket Frog
Acris crepitans
Cope's Gray Treefrog
Hyla chrysoscelis
Upland Chorus Frog
Pseudacris triseriata
Eastern Box Turtle
Terrapene carolina
Carolina Anole
Anolis carolinensis
Ground Skink
Scincella lateralis
Turkey Vulture
Cathartes aura
Wild Turkey
Meleagris gallopavo
Northern Flicker
Colaptes auratus
Pileated Woodpecker
Dryocopus pileatus
Eastern Wood-pewee
Contopus virens

Acadian Flycatcher
Empidonax virens
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Red-eyed Vireo
Vireo olivaceus
Prothonotary Warbler
Protonotaria citrea
Northern Parula
Parula americana
Black-and-white Warbler
Mniotilta varia
Yellow-rumped Warbler
Dendroica coronata
Pine Warbler
Dendroica pinus
Hooded Warbler
Wilsonia citrina
Summer Tanager
Piranga rubra



Newberry County

Molly's Rock Recreation Area

(Sumter National Forest)

Newberry County

June 27, 1987

Molly's Rock is like most wooded areas in the South Carolina Piedmont in its recent origins. Here, the growth is about 60 years from old field habitat to forest in succession. The resulting diversity of plants, and habitats from pond to open field, provide ample insect life and other wildlife. Dragonflies and butterflies, as you can see from the list, were plentiful.

Directions to Molly's Rock Recreation Area: From I-26 near Newberry, take Exit 74 and go north on SC 34 toward Winnsboro. After 5 miles, turn left (north) on US 176 toward Whitmire, and proceed approximately 4 miles. The Sumter National Forest-Molly's Rock Recreation Area sign will be on your right. Turn right onto the gravel road by the sign, and follow it to the picnic area where the trail begins.



Molly's Rock Recreation Area (continued)

June 27, 1987

FLORA

Running-pine

Lycopodium flabelliforme

Rattlesnake Grape Fern

Botrychium virginianum

Southern Lady Fern

Adiantum asplenoides

Christmas Fern

Polystichum acrostichoides

Netted Chain Fern

Woodwardia areolata

Ebony Spleenwort

Asplenium platyneuron

Resurrection Fern

Polypodium polypodioides

Loblolly Pine

Pinus taeda

Eastern Red-cedar

Juniperus virginiana

Cane; Switch Cane

Arundinaria gigantea

Yellow-groove Bamboo

Phyllostachys aurea

Microstegium (grass)

Microstegium vimineum

Downy Rattlesnake-plantain

Goodyera pubescens

Black Walnut

Juglans nigra

Tag Alder

Alnus serrulata

White Oak

Quercus alba

Red Oak

Quercus rubra

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Winged Elm

Ulmus alata

Hackberry

Celtis occidentalis georgiana

Red Mulberry

Morus rubra

Heartleaf

Hexastylis sp.

Tulip-poplar

Liriodendron tulipifera

PawPaw

Asimina triloba

Sassafras

Sassafras albidum

Spicebush

Lindera benzoin

Climbing-hydrangea

Dicentra barbara

Sweet-gum

Liquidambar styraciflua

Hawthorn

Crataegus sp.

Black Cherry; Wild Cherry

Prunus serotina

Mimosa; Silk-tree

Albizia julibrissin

Redbud; Judas-tree

Cercis canadensis

Pencil-flower

Stylosanthes biflora

Naked-flower Tick-trefoil

Desmodium nudiflorum

Beggar-lice

Desmodium sp.

Tephrosia

Tephrosia spicata

Butterfly-pea

Clitoria mariana

Poison-ivy

Rhus radicans

Winged Sumac

Rhus copallina

American Holly

Ilex opaca

Possunhaw Holly

Ilex decidua

Hearts-a-burstin'-with-love

Erionanthus americanus

Red Maple

Acer rubrum

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

Devil's-walking-stick

Aralia spinosa

Blackgum

Nyssa sylvatica

Flowering Dogwood

Cornus florida

Spotted Wintergreen

Chimaphila maculata

Soarwood

Oxydendrum arboreum

Sparkleberry

Vaccinium arboreum

Elliot's Blueberry

Vaccinium elliotii

Persimmon

Diospyros virginiana

American Ash; White Ash

Fraxinus americana

Climbing Dogbane

Trachelospermum diffusum

Beautyberry

Callicarpa americana

Carpenterweed

Prunella vulgaris

Lyre-leaved Sage

Salvia lyrata

Cross Vine

Aristolochia capitata

Trumpet Vine

Campsis radicans

Ruellia

Ruellia carolinensis

Virginia Buttonweed

Diodia virginiana

Partridge-berry

Mitchella repens

Japanese Honeysuckle

Lonicera japonica

Black-haw; Nanny-berry

Viburnum prunifolium

American Elderberry

Sambucus canadensis

Creeeping Cucumber

Melothria pendula

Climbing Hempweed

Mikania scandens

Bitterweed

Helenium amarum

FAUNA

Writing Spider

Argiope aurantia

Orb-weaver

Araneus sp.

Long-jawed Orb-weaver

Tetragnatha sp.

Fishing Spider

Dolomedes sp.

Carolina Locust

Dissosteira carolina

Banded Pennant (dragonfly)

Cerithemis fasciata

Eastern Pondhawk

Erythemis simplicicollis

Slaty Skimmer

Libellula incesta

Pied Skimmer

Libellula lucivosa

Blue Dasher

Pachydiplax longipennis

Eastern Amberwing (dragonfly)

Perithemis tenera

White-tail Dragonfly

Plathemis lydia

Ebony Jewelwing

Galepteryx maculata

Japanese Beetle

Popillia japonica

Spotless Lady Beetle

Cycloneda sanguinea

Red-banded Hairstreak

Calycopis cecrops

Eastern Tailed-blue (butterfly)

Evers conynx

American Snout (butterfly)

Libythea carinaria

Pearl Crescent

Phycodes tharos

Mourning Cloak

Nymphalis antiopa

American Lady (butterfly)

Vanessa virginiensis

Common Buckeye (butterfly)

Junonia coenia

Red-spotted Purple (butterfly)

Limenitis arthemis astyanax

Hackberry Emperor (butterfly)

Asterocampa celtis

Carolina Satyr (butterfly)

Hermeuptychia sosybius

Georgia Satyr (butterfly)

Neonympha areolata

Silver-spotted Skipper

Epagreus clarus

Io Moth

Automeris io

Green Frog; Bronze Frog

Rana clamitans

Southern Leopard Frog

Rana sphenoccephala

Yellow-bellied Slider

Chrysemys scripta

Carolina Anole

Anolis carolinensis

Ground Skink

Scincella lateralis

Six-lined Racerunner

Cnemidophorus sexlineatus

Redbelly Water Snake

Nerodia erythrogaster

Red-shouldered Hawk

Buteo lineatus

Red-bellied Woodpecker

Melanerpes formicivorus

Great Crested Flycatcher

Myiarchus cinerascens

Eastern Wood-pewee

Contopus virens

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

Carolina Wren

Troglodytes ludovicianus

Wood Thrush

Hylocichla ustulata

Northern Mockingbird

Mimus polyglottos

Red-Eyed Vireo

Vireo olivaceus

Northern Parula

Parula americana

Pine Warbler

Dendroica pinus

Hooded Warbler

Wilsonia citrina



(Photo by V. Wain)

Butterfly-pea, *Clitoria mariana*.



Oconee County

Brasstown Falls (Sumter National Forest) Oconee County August 23, 1986

This waterfall is a series of short drops and cascades, but the total drop makes a very picturesque portion of Brasstown Creek. All the ledges and small outcrops seem to be ideal places for "spray habitat" plants such as filmy fern. Unfortunately SCAN was unable to find the plant on the day of our visit. The walk in from the access road travels an old logging road which goes alongside a small tributary. One hillside was covered with barren strawberry, a very uncommon plant in South Carolina. Oak-leaf hydrangea is found at this site, the only such colony in South Carolina. Although the terrain is technically still piedmont, many plants typical of mountains are found in this area.

Directions to Brasstown Falls: From the railroad bridge in Westminster, take US 76 northwest for 11 miles, and turn left at the first paved road after Brasstown Church. After a distance, the paved road will become a gravel road. Where the gravel road crosses Brasstown Creek, you will see the trail head to the falls on the right.



FLORA

Meadow Spikemoss

Selaginella apoda

Common Grape Fern

Botrychium dissectum

Bracken

Pteridium aquilinum

Southern Lady Fern

Athyrium asplenoides

Marginal Shield Fern

Dryopteris marginalis

Christmas Fern

Polystichum acrostichoides

New York Fern

Thelypteris noveboracensis

Ebony Spleenwort

Asplenium platyneuron

White Pine

Pinus strobus

Eastern Hemlock

Tsuga canadensis

Wapato; Duck-potato

Sagittaria latifolia pubescens

Cane; Switch Cane

Arundinaria gigantea

Microstegium (grass)

Microstegium vimineum

Jack-in-the-pulpit

Arisaema triphyllum

Dayflower

Commelina communis

Spiderwort

Tradescantia subspersa

Catesby's Trillium

Trillium catesbaei

Indian Cucumber-root

Medeola virginiana

False Solomon's Seal

Smilacina racemosa

Solomon's-seal

Polygonatum biflorum

Wild Yam

Dioscorea villosa

Downy Rattlesnake-plantain

Goodyera pubescens

Black Walnut

Juglans nigra

Tag Alder

Alnus serrulata

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

White Oak

Quercus alba

Rock Chestnut Oak

Quercus prinus

False Nettle

Boehmeria cylindrica

Buffalo-nut

Pyralia pubera

Tearthumb

Polygonum sagittatum

Starry Campion

Silene stellata

Yellowroot

Xanthorhiza simplicissima

Meadow-rue

Thalictrum clavatum

Tulip-poplar

Liriodendron tulipifera

Umbrella-tree

Magnolia fraseri

Sweet-shrub; Carolina-allspice

Calycanthus floridus

Sassafras

Sassafras albidum

Riverweed

Podostemum ceratophyllum

Virginia-willow

Hea virginica

Climbing-hydrangea

Decumaria barbara

Wild Hydrangea

Hydrangea arborescens

Sweet-gum

Liquidambar styraciflua

Witch-hazel

Hamamelis virginiana

Barren Strawberry

Waldsteinia fragarioides

Agrimony

Agrimonia parviflora

Downy Serviceberry

Amelanchier arborea

Sensitive-brier

Schrankia microphylla

Redbud; Judas-tree

Cercis canadensis

Groundnut

Apios americana

Butterfly-pea

Clitorea mariana

Brasstown Falls (continued)

August 23, 1986

Hog-peanut

Amphicarpa bracteata

Poison-ivy

Rhus radicans

American Holly

Ilex opaca

Hearts-a-bustin'-with-love

Exonymus americanus

Red Maple

Acer rubrum

Spotted Touch-me-not

Impatiens capensis

St.-John's-wort

Hypericum matronum

Devil's-walking-stick

Aralia spinosa

Spikenard

Aralia racemosa

Sanicle; Snakeroot

Sanicula canadensis

Water Hemlock

Cicuta maculata

Blackgum

Nyssa sylvatica

Flowering Dogwood

Cornus florida

Alternate-leaved Dogwood

Cornus alternifolia

Silky Dogwood

Cornus amomum

Spotted Wintergreen

Chimaphila maculata

Indian-pipe

Monotropa uniflora

Rosebay; Great Laurel

Rhododendron maximum

Carolina-laurel

Rhododendron minus

Mountain-laurel

Kalmia latifolia

Dog-hobble

Leucothoe axillaris

Deerberry; Squaw-huckleberry

Vaccinium stamineum

Galax; Galaxy; Coltsfoot

Galax aplylia

Carolina Silverbell

Halesia carolina

American Ash; White Ash

Fraxinus americana

Rose-pink; Bitter-bloom

Sabatia angularis

Man-root

Ipomoea pandurata

Carpenterweed

Prunella vulgaris

Bee-balm

Monarda clinopodia

Mountain Mint

Pycnanthemum incanum

Mecardonia

Mecardonia acuminata

Hairy Gratiola

Gratiola pilosa

Lindernia

Lindernia dubia

Monkey-flower

Mimulus ringens

Woolly Mullein

Verbascum thapsus

False Foxglove

Aureolaria sp.

Lousewort

Pedicularis canadensis

Broadleaf Plantain

Plantago rugelii

Virginia Buttonweed

Diodia virginiana

Partridge-berry

Mitchella repens

Cardinal-flower

Lobelia cardinalis

Lobelia

*Lobelia amoena**Lobelia puberula*

Indian-tobacco

Lobelia inflata

Wild Lettuce

Lactuca biennis

Pale Indian-plantain

Cacalia atriplicifolia

Thistle

Carduus sp.

Ironweed

Vernonia glauca

Elephant's-foot

Elephantopus carolinianus

Joe-pye-weed

Eupatorium fistulosum

Pussy-toes

Antennaria solitaria

Coneflower

Rudbeckia laciniata

Wing-stem

Verbesina virginica

Coreopsis

Coreopsis major

Spanish-needles

Bidens bipinnata

Spindle-shaped Yellow Coral

Clavulinopsis fusiformis

Crested Coral

Clavulina cristata

Gelatinous-pored Polypore

Caloporus dichrous

False Caesar's Mushroom

Amanita parcivolvata

Birch Bolete

Austroboletus betula

Bolete

Austroboletus gracilis

Emetic Russula

Russula emetica

Violet Collybia

Collybia lecephala

Splash-cups

Cyathus striatus

Barometer Earthstar

Astracys hygrometricus

Carnival Candy Slime

Arctia demodata

Chocolate Tube Slime

Stemonitis splendens

FAUNA

Filmy Dome Spider

Prolinyphia marginata

Nursery-web Spider

Pisaurina sp.

Wheel Bug

Arilus cristatus

Dingy Ground Beetle

Anisodactylus rusticus

Common Tumblebug

Canthon laevis

Soldier Beetle

Chauliognathus pennsylvanicus

Blister Beetle

*Epicauta vittata**Epicauta trichrus*

Rove Beetle

Conotelus sp.

Sap-feeding Beetle

Pallodes sp.

Pleasing Fungus Beetle

Triplax sp.

Shining Flower Beetle

Olibrus sp.

12-spotted Cucumber Beetle

Diabrotica duodecimpunctata

Skeletonizing Leaf Beetle

Luperodes sp.

Pipevine Swallowtail

Battus philenor

Black Swallowtail

Papilio polyxenes asterius

Eastern Tiger Swallowtail

Papilio glaucus

Sleepy Orange (butterfly)

Eurema nicippe

Great Spangled Fritillary

Speyeria cybele

Pearl Crescent

Phycodes tharos

Monarch (butterfly)

Danaus plexippus

Silver-spotted Skipper

Epargyreus clarus

Clymene Moth

Haploa clymene

American Toad

Bufo americanus

Eastern Fence Lizard

Sceloporus undulatus

Red-tailed Hawk

Buteo jamaicensis

(Photos by L. Greenlee and V. Wain)

Solomon's-seal, *Polygonatum biflorum* (above) and false solomon's seal, *Smilacina racemosa*, (below) in fruit.

Burrells Ford, King Creek Falls, and Cherry Hill Campground (Sumter National Forest)

Oconee County

August 22, 1987, April 28, 1990, and May 19, 1991

This area of Sumter National Forest is on the west-facing slope of the Chattooga River watershed. The Cherry Hill campground includes a nature trail with typical mountain species. Burrells Ford and the King Creek area provide pleasant trails with creek and riverside plant and animal life. In damp weather these areas are often rich in salamanders and other amphibians. The falls are a nice drop of about 60 feet, and reached on an easy trail with lots of interesting mountain plants. The Chattooga River is a National Wild and Scenic River, and the trail alongside allows a look at relatively undisturbed mountain river edges.

Directions to Cherry Hill Campground: From Wallhalla, travel north on SC 28 for 8 miles. Take the right fork onto SC 107 and continue for about 9 more miles, bypassing Oconee State Park. Cherry Hill Campground is on the right and is marked with a sign. If you come to the Burrells Ford road, turn around and go back a mile or two.

Directions to Burrells Ford and King Creek Falls: To reach Burrells Ford Campground, continue north on SC 107 for another mile or two past Cherry Hill Campground. Turn left on the Forest Service Road 708, where there is a sign "Georgia Highway 28 — 10 miles, Chattooga River — 3 miles". Park in the parking lot just before crossing the Chattooga River and walk to the campground, about 0.25 mile. From the parking lot near the Burrells Ford campground is the trail head for the King Creek Waterfall, about 0.5 mile.



FLORA

Lichen

Collema subflaccidum
Leptogium cyanescens
Passuria tavaresii
Parmeliella pavonosa
Coccocarpia erythroxyli
Nephroma helveticum
Peltigera horizontalis
Peltigera polydactyla
Lobaria sp.
Graphis scripta
Conogonium interplexum
Lecidea parasema
Lecidea parasema theioplaca
Lecidea tessellata
Stereocaulon pileatum
Cladonia bacillaris
Cladonia caespiticia
Cladonia coniocraea

Cladonia cristatella
Cladonia cylindrica
Cladonia didyma
Cladonia gracilis
Cladonia parasitica
Lecanora varia
Aspicilia lacustris
Bulbothrix confederata
Cetraria oakesiana
Parmelia rufescens
Parmotrema dilatatum
Parmotrema euryacum
Parmotrema haitiense
Parmotrema hypoleucum
Parmotrema praesorediosum
Parmotrema reticulatum
Parmotrema robustum
Parmotrema subinctorium
Parmotrema sulphuratum
Platismatia tuckermanni
Pseudovernia consocians

Pseudoparmelia caperata
Pseudoparmelia caroliniana
Xanthoparmelia subnigra
Canoparmelia caroliniana
Flavopunctelia zoredica
Evernia mesomorpha
Usnea ceratina
Usnea mutabilis
Usnea strigosa
Usnea trichodea
Anaptychia palmata
Buellia punctata
Physcia millegrana
Physcia pseudospectiosa
Physcia subtilis
Heterodermia hypoleuca
Heterodermia speciosa
Heterodermia leucocoma
Phaeophyscia adustula
Phaeophyscia ciliata
Phaeophyscia imbricata

Rinodina tephraeopsis
Porina nucula
Gymnoderma lineare
Running-pine
Lycopodium flabelliforme
Meadow Spikemoss
Selaginella apoda
Rattlesnake Grape Fern
Botrychium virginianum
Cinnamon Fern
Onoclea cinnamonomea
Maidenhair Fern
Adiantum pedatum
Hay-scented Fern
Desmazzetia pumilobolus
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Fancy Fern
Dryopteris intermedia

Burrells Ford, King Creek Falls and
Cherry Hill Campground (continued)

August 22, 1987, April 28, 1990, and May 19, 1991

Christmas Fern
Polystichum acrostichoides
Broad Beech-Fern
Thelypteris hexagonoptera
New York Fern
Thelypteris noveboracensis
Ebony Spleenwort
Asplenium platyneuron
Mountain Spleenwort
Asplenium montanum
Rock Cap Fern
Polypodium virginianum
Resurrection Fern
Polypodium polypodioides
White Pine
Pinus strobus
Loblolly Pine
Pinus taeda
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Hemlock
Tsuga canadensis
Hemlock
Tsuga sp.
Cane; Switch Cane
Arundinaria gigantea
Panic Grass
Panicum sp.
Microstegium (grass)
Microstegium vimineum
Jack-In-the-pulpit
Arisaema triphyllum
Woodrush
Luzula acuminata
Nodding Trillium
Trillium cernuum
Catesby's Trillium
Trillium catesbaei
Vasey's Trillium
Trillium vaseyi
Indian Cucumber-root
Medeola virginiana
Bluebead-lily
Clintonia borealis
Speckled Wood-lily
Clintonia umbellulata
False Solomon's Seal
Smilacina racemosa
Solomon's-seal
Polygonatum biflorum
Blazing-star
Chamaelirium luteum
Yellow Star-grass
Hypoxis hirsuta
Pink Lady's-slipper
Cypripedium acaule
Downy Rattlesnake-plantain
Godyera pubescens
Crane-fly Orchid
Tipularia discolor
Bitternut Hickory
Carya cordiformis

Tag Alder
Alnus serrulata
Cherry Birch
Betula lenta
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
American Chestnut
Castanea dentata
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Yellow Chestnut Oak
Quercus muhlenbergii
Red Oak
Quercus rubra
Scarlet Oak
Quercus coccinea
Buffalo-nut
Pyrularia pubera
Wild Ginger
Hexasylis heterophylla
Heartleaf
Hexasylis sp.
Jumpseed
Tovara virginiana
Yellowroot
Xanthorrhiza simplicissima
Banewort
Actaea pachypoda
Virgin's-bower
Clematis virginiana
Hooked Buttercup
Ranunculus recurvatus
Liverleaf
Hepatica acutiloba
Windflower
Anemone quinquefolia
Mayapple
Podophyllum peltatum
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Riverweed
Podostemum ceratophyllum
Wild Hydrangea
Hydrangea arborescens radiata
Alumroot
Heuchera villosa
Foamflower
Tiarella cordifolia
Sweet-gum
Liquidambar styraciflua

Witch-hazel
Hamamelis virginiana
Wild Strawberry
Fragaria virginiana
Five-fingers
Potentilla canadensis
Blackberry
Rubus argutus
Agrimony
Agrimonia parviflora
Swamp Rose
Rosa palustris
Hawthorn
Crataegus sp.
Downy Serviceberry
Amelanchier arborea
Choke Cherry
Prunus virginiana
Black Cherry; Wild Cherry
Prunus serotina
Naked-ferret Tick-trefoil
Desmodium nudiflorum
Bush-clover
Lespedeza sp.
Black Locust
Robinia pseudo-acacia
Wood-sorrel
Oxalis grandis
Poison-ivy
Rhus radicans
Staghorn Sumac
Rhus typhina
Winged Sumac
Rhus copallina
Smooth Sumac
Rhus glabra
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
SL-Andrew's-cross
Hypericum hypericoides
Bird-foot Violet
Viola pedata
Sweet White Violet
Viola blanda
Halberd-leaved Violet
Viola hastata
Common Evening-primrose
Oenothera biennis
Angelica
Angelica sp.
Flowering Dogwood
Cornus florida
Mountain Sweet Pepperbush
Clethra acuminata
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora

Pine-sap
Monotropa hypophytus
Rosebay; Great Laurel
Rhododendron maximum
Purple Laurel
Rhododendron catawbiense
Carolina-laurel
Rhododendron minus
Pinxter-flower; Pinxter-bloom
Rhododendron nudiflorum
Swamp Honeysuckle
Rhododendron viscosum
Mountain-laurel
Kalmia latifolia
Dog-hobble
Leucothoe axillaris
Sourwood
Oxydendrum arboreum
Trailing-arbutus
Epigaea repens
Huckleberry
Gaylussacia ursina
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Low-bush Blueberry
Vaccinium vacillans
Oconee-bells; Shortia
Shortia galacifolia
Galax; Galaxy; Coltsfoot
Galax aphylla
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Carolina Silverbell
Halesia carolina
American Ash; White Ash
Fraxinus americana
Phlox
Phlox amoena
Carpenterweed
Prunella vulgaris
Lyre-leaved Sage
Salvia lyrata
Bugle-weed
Lycopus virginicus
Horse-balm
Collinsonia canadensis
Cow-wheat
Melampyrum lineare
Squaw-root
Conopholis americana
Virginia Buttonweed
Diodia virginiana
Partridge-berry
Mitchella repens
Bluets
Houstonia serpyllifolia
Bush Honeysuckle
Diervilla sessilifolia
Japanese Honeysuckle
Lonicera japonica
Coral-berry
Symphoricarpos orbiculatus
Wild-raisin; Witherod
Viburnum cassinoides

Rusty Black-haw
Viburnum rigidulum
 American Elderberry
Sambucus canadensis
 Lobelia
Lobelia puberula
 Parnassia
Parnassia sp.
 Rattlesnake-weed
Hieracium venosum
 Green-stemmed Joe-pye-weed
Eupatorium purpureum
 Robin's-plantain
Erigeron pulchellus
 Beggar-ticks
Bidens frondosa
 Yarrow; Milfoil
Achillea millefolium
 Ox-eye Daisy
Chrysanthemum leucanthemum
 Moose-antlers
Wynema americana
 Black-club
Trichoglossum geoglossum
 Jelly-club
Leotia ascomyces
 Tree-ear
Auricularia auricula
 Golden Chanterelle
Cantharellus cibarius
 Cinnabar-red Chanterelle
Cantharellus cinnabarinus
 Black-trumpet
Craterellus fallax
 Fragrant Chanterelle
Craterellus odoratus
 Spindle-shaped Yellow Coral
Clavulinopsis fusiformis
 Coral Mushroom; Cole
Clavaria flava
 Crown-tipped Coral
Clavicornia pyxidata
 Crested Coral
Clavulina cristata
 Cotton-base Coral
Lentaria byssidea
 Straight-branched Coral
Ramaria stricta
 Ochre Spreading Tooth
Steccherinum ochraceum
 Turkey-tail
Trametes versicolor
 Crowded Parchment
Stereum complicatum
 American Caesar's Mushroom
Amanita caesarea
 King Bolete
Boletus edulis
 Zeller's Bolete
Boletus zelleri
 Old-man-of-the-woods
Strobilomyces floccopus
 Dotted-stalk Suillus
Suillus granulatus
 Bitter Bolete
Tylopilus felix

Alcohol Inky
Coprinus atramentarius
 Psathyrella (mushroom)
Psathyrella sp.
 Black-nipple Fiber-head
Inocybe fasciculata
 Tacky Green Russula
Russula aeruginea
 Emetic Russula
Russula emetica
 Fragile Russula
Russula fragilis
 Rosy Russula
Russula rosacea
 Family Collybia
Clitocybula familia
 Pinwheel Marasmius
Marasmius sp.
 Black Jelly Oyster
Resupinatus applicatus
 Skull-shaped Puffball
Calvatia craniformis
 Purple-spored Puffball
Calvatia cyathiformis
 Pear-shaped Puffball
Lycoperdon pyriforme
 Dog Stinkhorn
Mutinus caninus
 Stalked Puffball-in-aspic
Calostoma cinnabarinum
 Buried-stalk Puffball
Tulostoma simulans

FAUNA

Millipede
Narceus americanus
 Crab Spider
Misumenops sp.
 Mayfly (larva)
Ephemera sp.
 Stonely (larva)
Phasganophora capitata
 Bush Katydid
Scudderella sp.
 Wheel Bug
Arhilus cristatus
 Water-strider
Gerris sp.
 Annual Cicada
Tibicen sp.
 June Beetle
Phyllophaga sp.
 Japanese Beetle
Popillia japonica
 Marsh Beetle
Prionocyphus discoloratus
 Click Beetle
Ampedus areolatus
 Soldier Beetle
Chauliognathus pennsylvanicus
 Red-banded Hairstreak
Calyptis cecropis
 Gray Hairstreak
Strymon melinus
 Eastern Tailed-blue(butterfly)
Eyeris conyrtus

Spring Azure (butterfly)
Lycanopsis argiolus
 Pearl Crescent
Phycodes tharos
 Eastern Comma; Hop Merchant
Polygonia comma
 Common Buckeye (butterfly)
Junonia coenia
 Silver-spotted Skipper
Ergatis clausus
 Golden Skipper
Poanes sp.
 Tulip-tree Beauty Moth
Epimachia hortaria
 Pistachio Emerald Moth
Heliothis pistaciaria
 Eastern Newt
Notophthalmus viridescens
 Mountain Dusky Salamander
Desmognathus ochrophaeus
 Two-lined Salamander
Eurycea bislineata
 Spring Peeper
Hyla crucifer
 Common Loon
Gavia immer
 Osprey
Pandion haliaetus
 Chimney Swift
Chaetura pelagica

Ruby-throated Hummingbird
Archilochus colubris
 Pileated Woodpecker
Dryocopus pileatus
 Eastern Phoebe
Sayornis phoebe
 American Crow
Corvus brachyrhynchos
 Carolina Chickadee
Parus carolinensis
 Prothonotary Warbler
Protonotaria citrea
 Northern Parula
Parula americana
 Black-throated Blue Warbler
Dendroica caerulescens
 Black-throated Green Warbler
Dendroica virens
 Kentucky Warbler
Oporornis formosus
 Hooded Warbler
Wilsonia citrina
 Worm-eating Warbler
Helmitheros vermivorus
 American Goldfinch
Carduelis tristis
 Gray Squirrel
Sciurus carolinensis
 Beaver (gnaw mark)
Castor canadensis



(Photo L. Smith)

Turkey-tail, *Trametes versicolor*.



(Photo by A. C. Cline)

Red eft or eastern newt, *Notophthalmus viridescens*.

Buzzards Roost Heritage Preserve

Oconee County

May 18, 1991

Buzzards Roost is a small monadnock with a cap of low-grade marble adjacent to Sumter National Forest. The view from the top is spectacular, although the climb is steep to reach it. The area contains specimens of several uncommon to rare plants, including the fern purple cliff-brake, table mountain pine, and August-blooming smooth coneflower. Mountain-laurel is abundant and was in full bloom on the day SCAN visited. Also along the trail that day was a molting katydid that was performing this feat in full view beside the trail. The more common plant and animal species in the preserve create a rich representation of higher elevation Piedmont flora and fauna.

Directions to Buzzards Roost Heritage Preserve:

From Walhalla, take SC 28 north approximately 6 miles. Turn left onto County Road 193 (Whetstone Road) and drive 0.7 miles. Turn left onto County Road 290 (Cassidy Bridge Road) and drive 0.9 miles. Turn left again onto the gravel Forest Service road FS 744 and drive 3.1 miles. Turn left for the fourth time onto FS 7441 and drive 1.2 miles to the end of the road. Park in the turn-around.



FLORA

Lichen

Leptogium corticola
Pannaria tavaresii
Peltigera canina
Graphis scripta
Lecidea myriocarpoides
Lecidea sp.
Boeomycetes fungoides
Cladonia capitata
Cladonia curiosa
Cladonia chlorophaea
Cladonia sobolescens
Cladonia coniocraea
Cladonia cristatella
Cladonia cylindrica
Cladonia incrustata
Cladonia leporina
Cladonia papyrea
Cladonia polycarpoides
Cladonia verticillata
Pycnothelia papillaria
Pertusaria leucostoma
Pertusaria paratuberculifera
Pertusaria texana
Pertusaria tetrahalma
Pertusaria sinuomexicana
Pertusaria velata
Pertusaria tuberculifera
Pertusaria ophthalmica

Pertusaria valliculata
Pertusaria sp.
Leconora cupressi
Ochrolechia africana
Candelaria fibrosa
Hypotrachyna livida
Hypotrachyna ensifolia
Parmelia saxatilis
Parmelia squarrosa
Parmelia aurulenta
Parmelia horrescens
Parmotrema cetratum
Parmotrema crinitum
Parmotrema michauxianum
Parmotrema reticulatum
Pseudoparmelia cespitosa
Pseudoparmelia caroliniana
Isotriaena aleurites
Tuckermannopsis ciliaris
Ramalina americana
Usnea strigosa
Usnea trichodea
Anaptychia palmatula
Buellia parasma
Buellia curatellae
Buellia curtisii
Physcia stellaris
Heterodermia obscurata
Phaeophyscia pusilluloides
Phaeophyscia rubropulchra
Hyperphyscia syncolla

Trypethelium virens
Trypethelium scorites
Maidenhair Fern
Adiantum pedatum
Purple Cliff-brake
Pellaea atropurpurea
Bracken
Pteridium aquilinum
Christmas Fern
Polystichum acrostichoides
Blackstem Spleenwort
Asplenium seidlitzii
Rock Cap Fern
Polypodium virginianum
White Pine
Pinus strobus
Table Mountain Pine
Pinus pungens
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
Orchard Grass
Dactylis glomerata
Melic Grass
Melica mutica
Needle Grass
Stipa avenacea

Sawbrier; Greenbrier
Smilax glauca
Indian Cucumber-root
Medeola virginiana
False Solomon's Seal
Smilacina racemosa
Solomon's-seal
Polygonatum biflorum
Bellwort
Uvularia perfoliata
Wild Yam
Dioscorea villosa
Yellow Star-grass
Hypoxis hirsuta
Dwarf Iris
Iris verna
Small Green Wood Orchid
Habenaria clavellata
Downy Rattlesnake-plantain
Goodyera pubescens
Mockernut Hickory
Carya tomentosa
Tag Alder
Alnus serrulata
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Red Oak
Quercus rubra

Scarlet Oak
Quercus coccinea
Spanish Oak
Quercus falcata
Black Jack Oak
Quercus marilandica
Virginia Snakeroot
Aristolochia serpentaria
Tulip-poplar
Liriodendron tulipifera
Cucumber-tree
Magnolia acuminata
PawPaw
Asimina sp.
Sassafras
Sassafras albidum
Bloodroot
Sanguinaria canadensis
Poor-man's-pepper
Lepidium virginicum
Wild Hydrangea
Hydrangea arborescens
Sweet-gum
Liquidambar styraciflua
Five-fingers
Potentilla canadensis
Indian-physic
Gillenia trifoliata
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Mimosa; Silk-tree
Albizia julibrissin
Redbud; Judas-tree
Cercis canadensis
Wild Indigo
Baptisia tinctoria
White Wild Indigo
Baptisia alba
Low Hop Clover
Trifolium campestre
Leadplant; Indigo-bush
Amorpha sp.
Black Locust
Robinia pseudo-acacia
Bristly Locust
Robinia hispida
Hop-peanut
Amphicarpa bracteata
Flowering Spurge
Euphorbia corollata
Poison-oak
Rhus toxicodendron
Winged Sumac
Rhus copallina
Hearts-a-burstin'-with-love
Eonymus americanus
Red Maple
Acer rubrum
Spotted Touch-me-not
Impatiens capensis
New-Jersey-tea
Ceanothus americanus
Virginia-creeper
Parthenocissus quinquefolia

Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
Bird-foot Violet
Viola pedata
Russian-olive
Elaeagnus umbellata
Angelica
Angelica venenosa
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Carolina-laurel
Rhododendron minus
Mountain-laurel
Kalmia latifolia
Maleberry
Lyonia ligustrina
Sourwood
Oxydendrum arboreum
Trailing-arbutus
Epigaea repens
Sparkleberry
Vaccinium arboreum
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Low-bush Blueberry
Vaccinium vacillans
Galax; Galaxy; Coltsfoot
Galax aphylla
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Fringe-tree
Chionanthus virginicus
Indian-pink
Spigelia marilandica
Bindweed
Calystegia sericata
Horse-balm
Collinsonia verticillata
False Foxglove
Aureolaria pectinata
Bluets
Houstonia longifolia
Rattlesnake-weed
Hieracium venosum
Small's Ragwort
Senecio smallii
Pussy-toes
Antennaria solitaria
Antennaria plantaginifolia
Rosiweed
Silphium compositum
Green-and-gold
Chrysogonum virginianum
Wild Quinine
Parthenium integrifolium
Coreopsis
Coreopsis major
Yarrow; Milfoil
Achillea millefolium

Hairy Rubber Cup
Gallesia rufa
Crown-tipped Coral
Clavicorona pyxidata
Coral Slime
Ceratomyxa fruticulosa
FAUNA
Giant Forest Snail
Mesodon normalis
Red Velvet Mite
Trombidium sp.
Shortleg Shield-backed Katydid
Atractodes testaceus
Searcher; Ground Beetle
Carabus sylvaticus
Water Scavenger Beetle
Phaenonomenon estriatum
Tumblebug; Dung Beetle
Glaphyrocathus viridis
Aphodine Dung Beetle
Aeneas cognatus
Earth-boring Dung Beetle
Bolboceras sp.
Garden Beetle
Serica sp.
Chafer; Scarab Beetle
Dichelonyx sp.
Buprestid Beetle
Dicerca divaricata
Soldier Beetle
Chauliognathus pennsylvanicus
Cantharis lineola
Firefly; Lightning Beetle
Photinus sp.

Flat Bark Beetle
Silvanus bidentatus
Eastern Tailed-blue(butterfly)
Evers corymbus
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Orange-patched Smoky Moth
Pyromorpha dimidiata
Eastern Newt
Notophthalmus viridescens
Fowler's Toad
Bufo woodhousei
Cope's Gray Treefrog
Hyla chrysocelis
Spring Peeper
Hyla crucifer
Carolina Anole
Anolis carolinensis
Eastern Fence Lizard
Sceloporus undulatus
Five-lined Skink
Eumeces fasciatus
Turkey Vulture
Cathartes aura
Carolina Wren
Thryothorus ludovicianus
Pine Warbler
Dendroica pinus
Yellow-breasted Chat
Icteria virens
Indigo Bunting
Passerina cyanea
Rufous-sided Towhee
Pipilo erythrophthalmus



(Photos by V. Wren and L. Smith)

SCAN members saw a shortleg shield-back katydid, *Atractodes testaceus*, molt from start to finish.

Coon Branch Trail, April 22, 1995, and Lower Whitewater Falls Overlook Trail, August 28, 1993 Oconee County

The Coon Branch Trail, accessed from the Bad Creek parking area provided by Duke Power, goes about a mile up the west side of the Whitewater River and dead-ends near a huge, unforgettable Eastern Hemlock. That tree measured twelve feet, ten inches in circumference and fifty inches in diameter. This same area was walked in 1788 by the French botanist Andre Michaux, who discovered and named many plants that were new to science at that time. As the flora and fauna list shows, late April is a good time to visit for spring flowers and migrating birds, offering looks at species of birds we see in South Carolina only during the spring or fall migration. The grade is quite easy on this trail although there is a mildly steep ridge to cross before reaching the river from the parking lot. The Coon Branch Trail is on land owned by Duke Power.

Also accessible from this point on the river is the trail to an overlook to view Lower Whitewater Falls. One crosses the river rather than turning upstream on the Coon Branch Trail. This trail follows the side of the mountain and climbs slightly, while the river drops away toward Lake Jocassee. The view across the ravine to the falls is spectacular. Along that trail are mountain plants that do well in dry habitats, as the trail quickly leaves the moisture along the river.

Directions to Coon Branch Trail and Lower Whitewater Falls Overlook Trail: From Walhalla, drive northeast on SC 11 through Tamassee to SC 130, about 14 miles. Turn left (north) on SC 130 and drive about 10 miles. Watch for the intersection of County Road 413. Continue on SC 130 about 0.4 mile past that intersection to the gated Bad Creek Entrance to the Duke Power facility on the right. (If you cross the state line into North Carolina or come to the Upper Whitewater Falls entrance, you missed the entrance; turn around and try again.) At the entrance, stop and tell the guard that you have come to hike the trails. The guard should admit you and direct you to the trail heads. Both the Lower Whitewater Falls trail and the Coon Branch trail begin within this area.



FLORA

Lichen

Collema subflaccidum
Leptogium corticola
Leptogium cyanescens
Pannaria lurida
Pannaria rubiginosa
Pannaria tavarelli
Coccocarpia cronia
Peltigera horizontalis
Scleria wigellii
Graphis scripta
Bacidia schvinitzii
Bacidia sp.
Leptogium austroamericanum
Lecidea russula
Lecidea sp.

Baeomyces fungoides
Cladonia subtenaxis
Cladonia bacillaris
Cladonia chlorophaea
Cladonia chlorophaea f. *intermedia*
Cladonia comocroea
Cladonia comocroea f. *phyllostrota*
Cladonia comocroea f. *subpellucida*
Cladonia comocroea *expansa*
Cladonia cristatella
Cladonia cristatella *vestita*
Cladonia cristatella *epiphylla*
Cladonia diadema
Cladonia diadema *squamulosa*
Cladonia polycarpoides
Cladonia peziziformis

Cladonia peziziformis *dissectula*
Cladonia rappii
Pertusaria neoscotica
Pertusaria ostiolata
Pertusaria paranebulifera
Pertusaria subpernosa
Pertusaria texana
Pertusaria sinuomexicana
Pertusaria multipunctoides
Lecanora cypressi
Lecanora varia
Lecanora sp.
Candelaria concolor
Hypotrachyna livida
Hypotrachyna revoluta
Parmelia saxatilis
Parmelia squarrosa
Parmelia aurulenta

Parmelia horrescens
Parmelia horrescens *assidua*
Parmelia minarum
Parmotrema austrosinense
Parmotrema tinctorum
Platismatia tuckermanni
Pseudevernia consocians
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Punctelia subrudecta
Imshaugia aleurites
Rimelia reticulata
Rimelia cetrata
Ramalina americana
Usnea ceratina
Usnea rubicunda
Usnea strigosa

<i>Urena trichodea</i>	White Hellebore	<i>Spicebush</i>	Sweet White Violet
<i>Baellia punctata</i>	<i>Veratrum viride</i>	<i>Lindera benzoin</i>	<i>Viola blanda</i>
<i>Physcia aipolia</i>	Bellwort	Bloodroot	Primrose-leaved Violet
<i>Heterodermia obscurata</i>	<i>Uvularia perfoliata</i>	<i>Sanguinaria canadensis</i>	<i>Viola primulifolia</i>
<i>Heterodermia casaretiana</i>	<i>Uvularia sessilifolia</i>	Wild Hydrangea	Round-leaved Yellow Violet
<i>Phaeophyscia rubropulchra</i>	<i>Uvularia</i> sp.	<i>Hydrangea arborescens radiata</i>	<i>Viola rotundifolia</i>
<i>Physconia deterosa</i>	Wild Yam	Foamflower	Halberd-leaved Violet
<i>Normandina pulchella</i>	<i>Dioscorea villosa villosa</i>	<i>Tiarella cordifolia</i>	<i>Viola hastata</i>
Shining Clubmoss	<i>Dioscorea</i> sp.	Sweet-gum	Devil's-walking-stick
<i>Lycopodium lucidulum</i>	Yellow Star-grass	<i>Liquidambar styraciflua</i>	<i>Aralia spinosa</i>
Running-pine	<i>Hypoxis hirsuta</i>	Witch-hazel	Wild Sarsaparilla
<i>Lycopodium flabelliforme</i>	Dwarf Iris	<i>Hamamelis virginiana</i>	<i>Aralia nudicaulis</i>
Rattlesnake Grape Fern	<i>Iris verna</i>	Cinquefoil; Five-fingers	Black Tupelo; Blackgum
<i>Botrychium virginianum</i>	Yellow Lady's-slipper	<i>Potentilla</i> sp.	<i>Nyssa sylvatica sylvatica</i>
Grape Fern; Moonwort	<i>Cypripedium calceolus</i>	Blackberry; Brambles	Flowering Dogwood
<i>Botrychium</i> sp.	Showy Orchis	<i>Rubus</i> sp.	<i>Cornus florida</i>
Maidenhair Fern	<i>Orchis spectabilis</i>	Cocklebur	Spotted Wintergreen
<i>Adiantum pedatum</i>	Downy Rattlesnake-plantain	<i>Agrimonia</i> sp.	<i>Chimaphila maculata</i>
Hay-scented Fern	<i>Goodyera pubescens</i>	Hawthorn	Pine-sap
<i>Dennstaedtia punctilobula</i>	Crane-fly Orchid	<i>Crataegus</i> sp.	<i>Monotropa hypopitys</i>
Bracken	<i>Tipularia discolor</i>	Downy Serviceberry	Rosebay; Great Laurel
<i>Pteridium aquilinum</i>	Black Willow	<i>Amelanchier arborea</i>	<i>Rhododendron maximum</i>
Southern Lady Fern	<i>Salix nigra</i>	Black Cherry; Wild Cherry	Azalea
<i>Athyrium asplenoides</i>	Mockernut Hickory	<i>Prunus serotina</i>	<i>Rhododendron</i> sp.
Christmas Fern	<i>Carya tomentosa</i>	Sensitive-brier	Mountain-laurel
<i>Polystichum acrostichoides</i>	Pignut Hickory	<i>Schrankia microphylla</i>	<i>Kalmia latifolia</i>
Broad Beech-Fern	<i>Carya glabra</i>	Redbud; Judas-tree	Dog-hobble
<i>Thelypteris hexagonoptera</i>	Tag Alder	<i>Cercis canadensis</i>	<i>Leucothoe axillaris editorum</i>
New York Fern	<i>Alnus serrulata</i>	Partridge-pea	Sourwood
<i>Thelypteris noveboracensis</i>	Cherry Birch	<i>Cassia fasciculata</i>	<i>Oxydendrum arboreum</i>
Ebony Spleenwort	<i>Betula lenta</i>	Naked-flower Tick-trefoil	<i>Trailing-arbutus</i>
<i>Asplenium platyneuron</i>	American Chestnut	<i>Desmodium nudiflorum</i>	<i>Epigaea repens</i>
Resurrection Fern	<i>Castanea dentata</i>	Black Locust	Black Huckleberry
<i>Polypodium polypodioides</i>	White Oak	<i>Robinia pseudo-acacia</i>	<i>Gaylussacia baccata</i>
White Pine	<i>Quercus alba</i>	Hog-peanut	Huckleberry
<i>Pinus strobus</i>	Rock Chestnut Oak	<i>Amphicarpa bracteata</i>	<i>Gaylussacia urtica</i>
Short-leaf Pine	<i>Quercus prinus</i>	Milkwort	Sparkleberry
<i>Pinus echinata</i>	Red Oak	<i>Polygala</i> sp.	<i>Vaccinium arboreum</i>
Virginia Pine; Scrub Pine	<i>Quercus rubra</i>	Poison-ivy	Low-bush Blueberry
<i>Pinus virginiana</i>	Red Oak	<i>Rhus radicans</i>	<i>Vaccinium vacillans</i>
Eastern Hemlock	<i>Quercus rubra rubra</i>	Poison-oak	Galax; Galaxy; Coltsfoot
<i>Tsuga canadensis</i>	Black Oak	<i>Rhus toxicodendron</i>	<i>Galat aphylla</i>
Cane; Switch Cane	<i>Quercus velutina</i>	American Holly	Whorled Loosestrife
<i>Arundinaria gigantea</i>	Scarlet Oak	<i>Ilex opaca</i>	<i>Lysimachia quadrifolia</i>
Bulrush	<i>Quercus coccinea</i>	Hearts-a-burstin'-with-love	Horse-sugar; Sweetleaf
<i>Scirpus purshianus</i>	Southern Red Oak; Spanish Oak	<i>Euonymus americanus</i>	<i>Symplocos tinctoria</i>
Wool-grass	<i>Quercus falcata falcata</i>	Red Maple	Carolina Silverbell
<i>Scirpus cyperinus</i>	Buffalo-nut	<i>Acer rubrum</i>	<i>Halesia carolina</i>
Jack-in-the-pulpit	<i>Pyralaria pubera</i>	Chalk Maple	American Ash; White Ash
<i>Arisaema triphyllum</i>	Heartleaf	<i>Acer saccharum leucoderme</i>	<i>Fraxinus americana</i>
Sawbrier; Greenbrier	<i>Hexastylis arifolia</i>	Virginia-creeper	White Ash; American Ash
<i>Smilax glauca</i>	Wild Ginger	<i>Parthenocissus quinquefolia</i>	<i>Fraxinus americana americana</i>
Greenbrier; Catbrier	<i>Hexastylis shuttleworthii</i>	Muscadine; Bullace	Morning-glory
<i>Smilax</i> sp.	Heartleaf	<i>Vitis rotundifolia</i>	<i>Ipomoea</i> sp.
Little-sweet-Betsy	<i>Hexastylis</i> sp.	Basswood; Linden	Skullcap
<i>Trillium cuneatum luteum</i>	Yellowroot	<i>Tilia</i> sp.	<i>Scutellaria</i> sp.
Wake-robin	<i>Xanthorhiza simplicissima</i>	St.-Andrew's-cross	Squaw-root
<i>Trillium erectum</i>	Mayapple	<i>Hypericum hypericoides</i>	<i>Conopliotis americana</i>
Catesby's Trillium	<i>Podophyllum peltatum</i>	Hypericum	Partridge-berry
<i>Trillium catesbaei</i>	Tulip-poplar	<i>Hypericum</i> sp.	<i>Mitchella repens</i>
Indian Cucumber-root	<i>Liriodendron tulipifera</i>	Common Blue Violet	Bluets
<i>Medeola virginiana</i>	Umbrella-tree	<i>Viola papilionacea</i>	<i>Houstonia scrypifolia</i>
Speckled Wood-illy	<i>Magnolia fraseri</i>	Wood Violet	Japanese Honeysuckle
<i>Clinomena umbellulata</i>	Sweet-shrub; Carolina-allspice	<i>Viola palmata triloba</i>	<i>Lonicera japonica</i>
Solomon's-seal	<i>Calycanthus floridus</i>	Violet	Wild-raisin; Withered
<i>Polygonatum biflorum</i>	Sassafras	<i>Viola septemloba</i>	<i>Viburnum cassinoides</i>
	<i>Sassafras albidum</i>	<i>Viola</i> sp.	

Coon Branch Trail and
Lower Whitewater Falls Overlook Trail (continued)
April 22, 1995, and August 28, 1993

Viburnum

Viburnum sp.

American Elderberry

Sambucus canadensis

Lobelia

Lobelia puberula

Indian-tobacco

Lobelia inflata

Elephant's-foot

Elephantopus carolinianus

Elephantopus tomentosus

Blazing-star

Liatris graminifolia

Eupatorium

Eupatorium sp.

Marsh-Hebane

Pluchea camphurata

Pussy-toes

Antennaria sp.

Robin's-plantain

Erigeron pulchellus

Heart-leaved Aster

Aster divaricatus

Sweet Goldenrod

Solidago odora

Goldenrod

Solidago sp.

Heterotheca

Heterotheca graminifolia

Rosinweed

Silphium compositum

Wild Quinine

Parthenium integrifolium

Conflower

Rudbeckia laciniata

Sunflower

Helianthus microcephalus

Helianthus sp.

Coreopsis

Coreopsis major

Carbon-balls (fungus)

Daldinia concentrica

Black-knot

Apistopora morboza

Tree-ear

Auricularia auricula

Witches'-butter

Tremella mesenterica

Cauliflower Mushroom

Sparassis sp.

Mustard-yellow Polypore

Phellinus gilvus

Orange Poria

Poria spissa

Violet-toothed Polypore

Trichaptum bifurmis

Common Split-gill

Schizophyllum commune

Crowded Parchment

Stereum complicatum

False Turkey-tail

Stereum ostrea

Shaggy-stalked Bolete

Boletellus betula

Old-man-of-the-woods

Strobilomyces floccopus

Dotted-stalk Suillus

Suillus granulatus

Fawn Mushroom

Pluteus cervinus

Gill Fungus

Clitocybe sp.

Carnival-candy Slime

Acrisia denudata

FAUNA

Giant Forest Snail

Meadow normalis

White-lipped Forest Snail

Meadow thyridius

Disk Cannibal Snail

Haplotrema concavum

Millipede

Narcus americanus

Writing Spider

Argiope aurantia

Rabbit Wolf Spider

Lycosa rabida

Red Velvet Mite

Trombidium sp.

June-beetle Wasp

Pelecinus polyturator

Mayfly

Isonychia sp.

Heptageniid Mayfly

Epeorus sp.

Common Stonefly

Acronyia internata

Common Stonefly

Paragnetia immarginata

Walkingstick

Diaperomera femorata

Carolina Locust

Disosteira carolina

Boll's Sand Grasshopper

Spharagemon bolli

Differential Grasshopper

Melanoplus differentialis

Red-legged Grasshopper

Melanoplus femurrubrum

Spar-throated Grasshopper

Melanoplus sp.

Angular-winged Katydid

Microcentrum retinerve

True Katydid

Pterophylla camellifolia

Leaf-rolling Cricket

Camptonotus carolinianus

Carolina Mantid (egg)

Stagmomantis carolina

Large Water-strider

Gerris remigis

Rifle Bug

Rhagovella obesa

Dark Fishfly

Nigronia serricornis

Common Eastern Velvet-ant

Dasyntilla occidentalis

occidentalis

Velvet-ant

Dasyntilla asopus hexar

Bald-faced Hornet (nest)

Vespa maculata

Yellowjacket

Vespa sp.

Eastern Yellowjacket

Vespa maculifrons

Bumblebee

Bombus impatiens

Bumblebee

Bombus sp.

Medium Evening Sedge Caddisfly

Dolophilodes sp.

Brown Checkered Summer Sedge

Polycentropus sp.

Spotted Sedge Caddisfly

Hydropsyche sp.

Caddisfly

Rhyacophila fuscula

Saddle-case Maker Caddisfly

Glossosoma sp.

Giant Brown Autumn Sedge

Pycnospyche divergens

Pycnospyche gentilis

Autumn Mottled Sedge Caddisfly

Neophylax mitchelli

Little Plain Brown Sedge

Lepidostoma sp.

Flower Fly

Milesia virginensis

Shiny Bluebottle Fly

Cynomyopsis cadaverina

Common Green Darner

Anax junius

Single-striped Clubtail

Lanthus vernalis

Green Tiger Beetle

Cicindela sexguttata

Woodland Ground Beetle

Agonum extensicollis

Dingy Ground Beetle

Anisodactylus rusticus

Large Rove Beetle

Psephenus fossator

Carriion Beetle

Nicrophorus sp.

Tumblebug; Dung Beetle

Canthon chalcites

Water-penny Beetle (larva)

Psephenus herickii

Click Beetle

Heteroderes sp.

Soldier Beetle

Chauliognathus marginatus

Chauliognathus pennsylvanicus

Soft-winged Flower Beetle

Collops quadrimaculatus

Convergent Lady Beetle

Hippodamia convergens

Seven-spotted Lady Beetle

Coccinella septempunctata

Spotless Lady Beetle

Cycloneda sanguinea

Alder Leaf Beetle

Chrysomela interrupta

E. Spotted Cucumber Beetle

Diabrotica undecimpunctata

howardi

Leaf-mining Beetle

Anoplitis inaequalis

White-fringed Beetle

Graphognathus leucoloma

Broad-nosed Weevil

Phyllotribus sp.

Eastern Tiger Swallowtail

Papilio glaucus

Clouded Sulphur

Colias philodice

Cloudless Sulphur

Phoebastria sennae eubule

Red-banded Hairstreak

Calycopis cecrops

Eastern Tailed-blue(butterfly)

Everes comyntas

Crescent Butterfly

Phyciodes sp.

Viceroy; Mimic (cocoons)

Limenitis archippus

Silver-spotted Skipper

Epargyreus clarus

Juvenal's Duskywing

Erynnis juvenalis

Grape Leafroller Moth

Desmia funeralis

Minor Angle (moth)

Semiaethia minorata

Angle Moth

Semiaethia sp.

Bent-line Gray (moth)

Iridopsis larvata

Yellow Slant-line (moth)

Tetracis crocaltata

Pistachio Emerald Moth

Helthemia pistaciaria

Ferguson's Scallop Shell Moth

Hydria prunivora

Luna Moth

Actias luna

Fall Webworm Moth

Hyphantria cunea

Dusky Salamander

Desmognathus sp.

Southern Toad

Bufo terrestris

Eastern Fence Lizard

Sceloporus undulatus

Broadhead Skink

Eumeces laticeps

Turkey Vulture

Cathartes aura

Red-tailed Hawk

Buteo jamaicensis

Wild Turkey

Meleagris gallopavo

Mourning Dove

Zenaidura macroura

Downy Woodpecker
Picoides pubescens
Pileated Woodpecker
Dryocopus pileatus
Eastern Kingbird
Tyrannus tyrannus
Eastern Phoebe
Sayornis phoebe
Northern Rough-winged Swallow
Stelgidopteryx serripennis
Barn Swallow
Hirundo rustica
American Crow
Corvus brachyrhynchos
Common Raven
Corvus corax
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula
Blue-gray Gnatcatcher
Polioptila caerulea
Eastern Bluebird
Sialia sialis
Wood Thrush
Hylocichla ustulata
American Robin
Turdus migratorius

Solitary Vireo
Vireo solitarius
Red-Eyed Vireo
Vireo olivaceus
Northern Parula
Parula americana
Black-and-white Warbler
Mniotilta varia
Yellow-rumped Warbler
Dendroica coronata
Black-throated Green Warbler
Dendroica virens
Prairie Warbler
Dendroica discolor
Pine Warbler
Dendroica pinus
Hooded Warbler
Wilsonia citrina
Worm-eating Warbler
Helmitheros vermivorus
Swainson's Warbler
Limnethys swainsonii
American Redstart
Setophaga ruticilla
Rose-breasted Grosbeak
Pheucticus ludovicianus
Northern Cardinal
Cardinalis cardinalis
Blue Grosbeak
Guiraca caerulea
Indigo Bunting
Passerina cyanea



(Photo by L. Smith)
Lower Whitewater Falls,
Oconee County, Blue Ridge
region.

Rufous-sided Towhee
Pipilo erythrophthalmus
Savannah Sparrow
Passerculus sandwichensis
Chipping Sparrow
Spizella passerina
Red-winged Blackbird
Agelaius phoeniceus
Scarlet Tanager
Piranga olivacea

Summer Tanager
Piranga rubra
American Goldfinch
Carduelis tristis
Eastern Chipmunk
Tamias striatus
Wild Pig (sign)
Sus scrofa
White-tailed Deer (tracks)
Odocoileus virginianus

Devils Fork State Park Oconee County April 23, 1994

Devils Fork State Park is located on the west shore of Lake Jocassee, giving it a background of beautiful mountain scenery. This park occupies a portion of the limited range of Oconee-bells, harboring one of the few large stands left after the flooding of the lake. The nature trail offers an excellent opportunity to view closely this beautiful plant, as well as other species typical of the higher elevations in the state. Birds use this area on their migrations, making spring and fall good bird-observing times to visit. On this visit, SCAN members were able to see common loons in their summer plumage before they left for their summer breeding areas.

Directions to Devils Fork State Park: From Walhalla, drive northeast on SC 11 through Tamassee to SC 130, about 14 miles. Continue on SC 11 a short distance and watch for the brown sign directing you to the park. Turn left onto S 37-25; the park is about 4 miles north of SC 11. If coming from the east on SC 11, cross Lake Keowee and turn right onto S 37-127 at another brown park sign; turn right again onto S 37-25 and follow signs to the park.



(Photo by L. Smith)
Sassafras, Sassafras albidum.



FLORA

Lichen

Colletes subfucicollum
Leptogium cyaneescens
Leptogium laevidens
Graphis scripta
Graphis mosquitensis
Bacidia schweinitzii
Leptogium austroromanicum
Brigantesia leucostachia
Lecidea rissula
Racomyses fungoides
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia cylindrica
Cladonia dydima
Cladonia pycnidiformis
Pennaria amara
Pennaria neocotica
Pennaria paratuberculifera
Pennaria subulpsus
Pennaria texana
Pennaria multipunctatoides
Lecanora minutella
Lecanora cupressi
Lecanora pallida
Lecanora varia
Lecanora allopilana
Ochrolechia africana
Baibothrix goebelii
Hypotrachyna livida
Parmelia aureolata
Parmelia galbana
Parmelia horrescens
Parmelia minarum
Parmotrema hypopneum
Parmotrema mellissii

Parmotrema michauxianum
Parmotrema subtricturium
Flavoparmelia cespersata
Canoparmelia caroliniana
Punctelia rudecta
Melanelania exasperata
Rimelia reticulata
Tuckermannopsis oaketiana
Usnea ceratina
Usnea rubicunda
Usnea strigosa
Usnea filpendula
Anaptychia palmatula
Buellia dialytia
Buellia curatellae
Physcia alpicola
Physcia americana
Physcia stellaris
Heterodermia echinata
Heterodermia obscurata
Pyxine sorediata
Phaeophyscia imbricata
Phaeophyscia rubropulchra
Physconia neriostantha f. detersa
Pyrenula laevigata
Trypetidium mastoldense
Trypetidium virens
Porina salicina
Southern Grape Fern
Botrychium biternatum
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides

Christmas Fern
 Polystichum acrostichoides
New York Fern
 Thelypteris noveboracensis
Sensitive Fern
 Oncoclea sensibilis
Netted Chain Fern
 Woodwardia areolata
Ebony Spleenwort
 Asplenium platyneuron
White Pine
 Pinus strobus
Short-leaf Pine
 Pinus echinata
Virginia Pine; Scrub Pine
 Pinus virginiana
Eastern Hemlock
 Tsuga canadensis
Bur-reed
 Sparganium americanum
Cane; Switch Cane
 Arundinaria gigantea
Needle Grass
 Stipa avenacea
Greenbrier; Catbrier
 Smilax sp.
Indian Cucumber-root
 Medeola virginiana
Blazing-star
 Chamaelirium luteum
Bellwort
 Uvularia sp.
Wild Yam
 Dioscorea villosa
Yellow Star-grass
 Hypoxis hirsuta
Dwarf Iris
 Iris verna
Pink Lady's-slipper
 Cypripedium acaule
Downy Rattlesnake-plantain
 Goodyera pubescens
Crane-fly Orchid
 Tipularia discolor
Willow
 Salix sp.
Mockernut Hickory
 Carya tomentosa
Tag Alder
 Alnus serrulata
Beech
 Fagus grandifolia
American Chestnut
 Castanea dentata
White Oak
 Quercus alba
Post Oak
 Quercus stellata
Black Oak
 Quercus velutina
Scarlet Oak
 Quercus coccinea
Spanish Oak
 Quercus falcata
Heartleaf
 Hexastylis sp.

Yellowroot
Xanthorhiza simplicissima
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Dwarf PawPaw
Asimina parviflora
Sweet-shrub; Carolina-allspice
Calycanthus floridus
Sassafras
Sassafras albidum
Virginia-willow
Itea virginica
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana
Wild Strawberry
Fragaria virginiana
Blackberry; Brambles
Rubus sp.
Red Chokeberry
Sorbus arbutifolia
Hawthorn
Crataegus sp.
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Black Locust
Robinia pseudo-acacia
Bristly Locust
Robinia hispida
Flowering Spurge
Euphorbia corollata
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
St.-Andrew's-cross
Hypericum stragalium
Primrose-leaved Violet
Viola primulifolia
Halberd-leaved Violet
Viola hastata
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Mountain Sweet Pepperbush
Clethra acuminata
Spotted Wintergreen
Chimaphila maculata
Pine-sap
Monotropa hypopitys

Devils Fork State Park (continued)

April 23, 1994

Rosebay; Great Laurel
Rhododendron maximum
 Pinxter-flower; Pinxter-bloom
Rhododendron nudiflorum
 Mountain-laurel
Kalmia latifolia
 Dog-hobble
Leucothoe axillaris editorum
 Sourwood
Oxydendrum arboreum
 Trailing-arbutus
Epigaea repens
 Huckleberry
Gaylussacia ursina
 Sparkleberry
Vaccinium arboreum
 Low-bush Blueberry
Vaccinium vacillans
 Oconee-bells; Shortia
Shortia galacifolia
 Galax; Galaxy; Coltsfoot
Galax aphylla
 Persimmon
Diospyros virginiana
 Horse-sugar; Sweetleaf
Symplocos tinctoria
 Carolina Silverbell
Halesia carolina
 Fringe-tree
Chionanthus virginicus
 Cross Vine
Anisostichus capreolata
 Partridge-berry
Mitchella repens
 Possumhaw Viburnum
Viburnum nudum
 Rattlesnake-weed
Hieracium venosum
 Pussy-toes
Asterina sp.
 Robin's-plantain
Eriogon pulchellus
 Rosinweed
Silphium compositum
 Devil's-urn
Urtica crataegum
 Eyelash Cup
Scutellaria scutellata
 Swamp-beacon
Mitella paludosa
 Carbon-cushion
Urtica densa
 Fawn Mushroom
Pluteus cervinus
 Chocolate-tube Slime
Stemonitis splendens

FAUNA

Orchard Spider
Leucage venusta
 Long-jawed Orb-weaver
Tetragnatha laboriosa

Six-spotted Fishing Spider
Dolomedes triton
 Nursery-web Spider
Pisaurina mira
 Scorpion
Centruroides sp.
 Spur-throated Grasshopper
Melanoplus sp.
 Stilt Bug
Jalysus spinosus
 Toad Bug
Gelastocoris oculatus
 Eastern Green Lacewing
Chrysopa ornata
 Bumblebee
Bombus sp.
 Common Green Darner
Anax junius
 Spiketail Dragonfly
Cordulegaster sp.
 Common Baskettail (dragonfly)
Epiheca cynosura
 Little Corporal Dragonfly
Ladona deplanata
 White-tail Dragonfly
Plathemis lydia
 Violet-masked Glider
Tramea carolina
 Dancer (damselfly)
Argia sp.
 Green Tiger Beetle
Cicindela sexguttata
 Tiger Beetle
Cicindela tortuosa
 Round Sand Beetle
Omophron americanum
 Minute Ground Beetle
Bembidion americanum
Bembidion sp.
 Woodland Ground Beetle
Agonum errans
Agonum sp.
 Crawling Water Beetle
Peltodytes sexmaculatus
 Paederine Rove Beetle
Sunius sp.
Popitilus disjunctus
 June Beetle
Phyllotropa sp.
 Click Beetle
Ampedus sp.
 Soldier Beetle
Silix sp.
 Flat Bark Beetle
Brontes dubius
 Lady Beetle
Brachycaantha sp.
 Long-horned Leaf Beetle
Donacia subtilis
 Locust Leaf-mining Beetle
Chalepus dorsalis
 Zebra Swallowtail
Euryides marcellus

Eastern Tiger Swallowtail
Papilio glaucus
 Eastern Tailed-blue(butterfly)
Evers corinthus
 Spring Azure (butterfly)
Castranea ladon
 American Snout (butterfly)
Libytheana carinenta
 American Lady (butterfly)
Vanessa virginiensis
 Red Admiral
Vanessa atalanta rubria
 Carolina Satyr (butterfly)
Hermesptychia sxybius
 Duskywing Skipper
Erynnis sp.
 Emerald Moth
Synchlora sp.
 Slimy Salamander
Plethodon glutinosus
 Cope's Gray Treefrog (call)
Hyla chrysocelis
 Eastern Fence Lizard
Sceloporus undulatus
 Common Loon
Gavia immer
 Canada Goose
Branta canadensis
 Spotted Sandpiper
Actitis macularia
 Ring-billed Gull
Larus delawarensis
 Turkey Vulture
Cathartes aura
 Bald Eagle
Haliaeetus leucocephalus
 Mourning Dove
Zenaidura macroura

Downy Woodpecker
Picoides pubescens
 Pileated Woodpecker
Dryocopus pileatus
 Eastern Kingbird
Tyrannus tyrannus
 Great Crested Flycatcher
Myiarchus cinerascens
 Eastern Phoebe
Sayornis phoebe
 Northern Rough-winged Swallow
Sialidopteryx serripennis
 American Crow
Corvus brachyrhynchos
 Tufted Titmouse
Parus bicolor
 Carolina Chickadee
Parus carolinensis
 White-breasted Nuthatch
Sitta carolinensis
 Blue-gray Gnatcatcher
Poliophaea caerulea
 Wood Thrush
Hylocichla ustulata
 Red-Eyed Vireo
Vireo olivaceus
 Yellow-throated Warbler
Dendroica dominica
 Pine Warbler
Dendroica pinus
 Northern Cardinal
Cardinalis cardinalis
 Common Grackle
Quiscalus quiscula
 Summer Tanager
Piranga rubra
 Gray Squirrel
Sciurus carolinensis
 Raccoon (tracks)
Procyon lotor

Spotted wintergreen, *Chimaphila maculata*.

(Photos by V. Wiers)

Station Falls

(Oconee Station State Historic Site)
Oconee County
April 29, 1990

Station Falls is formed by Station Creek dropping over a rock outcrop into a rich mountain cove. In doing so, the falls create a most attractive backdrop for an unusually rich spring wildflower diversity. Hard use has damaged some of the populations of rare plants, but it is still one of the richest areas for mountain plants in the state. The beavers have dammed the creek about a thousand feet downstream from the falls, creating a nice wetlands area for plants and animals to colonize and humans to explore. For wildflower enthusiasts, this is one of the stellar sites in South Carolina.

Since SCAN's visit to Station Falls in 1990, it has become part of Oconee Station State Historic Site.

Directions to Station Falls: From Walhalla, go east on SC 183 toward Pickens for 3.2 miles. Turn left (north) onto SC 11 toward Tamassee and drive 2.1 miles. Just after County Road 181 comes in from the left and then S 37-198 joins from the right, fork left onto S 37-95. Go about 2 miles and cross Oconee Creek. Park there and follow the trail to Station Falls on the right.



FLORA

Shining Clubmoss

Lycopodium lucidulum

Rattlesnake Grape Fern

Botrychium virginianum

Maidenhair Fern

Adiantum pedatum

Southern Lady Fern

Athyrium asplenoides

Christmas Fern

Polystichum acrostichoides

Broad Beech-Fern

Thelypteris hexagonoptera

New York Fern

Thelypteris noveboracensis

Walking Fern

Asplenium rhizophyllum

Resurrection Fern

Polypodium polypodioides

Virginia Pine; Scrub Pine

Pinus virginiana

Eastern Red-cedar

Juniperus virginiana

Common Cat-tail

Typha latifolia

Cane; Switch Cane

Arundinaria gigantea

Melic Grass

Melica nutica

Nut-rush

Scleria sp.

Sedge

Carex communis

Carex laticulmis

Jack-in-the-pulpit

Arisaema triphyllum

Sawbrier; Greenbrier

Smilax glauca

Little-sweet-Betsy

Trillium cuneatum

Wake-robin

Trillium erectum

Catesby's Trillium

Trillium catesbaei

False Solomon's Seal

Smilacina racemosa

Yellow Mandarin

Disporum lanuginosum

Solomon's-seal

Polygonatum biflorum

Blazing-star

Chamaelirium luteum

Bellwort

Uvularia perfoliata

Wild Yam

Dioscorea villosa

Yellow Star-grass

Hypoxis hirsuta

Blue-eyed-grass

Styracinchium angustifolium

Pink Lady's-slipper

Cypripedium acaule

Downy Rattlesnake-plantain

Goodyera pubescens

Crane-fly Orchid

Tipularia discolor

Hickory

Carya sp.

Tag Alder

Alnus serrulata

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

Chinquapin

Castanea sp.

White Oak

Quercus alba

Spanish Oak

Quercus falcata

Slippery Elm

Ulmus rubra

Wood-nettle

Laportea canadensis

Virginia Snakeroot

Aristolochia serpentaria

Wild Ginger

Asarum canadense

Hexastylis shuttleworthii

Yellowroot

Xanthorhiza simplicissima

Monkshood

Aconitum uncinatum

Black Cohosh

Cimicifuga racemosa

Windflower

Thalictrum thalictroides

Meadow-rue

Thalictrum sp.

Bulbous Buttercup

Ranunculus bulbosus

Buttercup

Ranunculus hispidus

Liverleaf

Hepatica acutiloba

Blue Cohosh; Papooserooot

Sanicula thalictroides

Mayapple

Podophyllum peltatum

Tulip-poplar

Liriodendron tulipifera

Umbrella-tree

Magnolia fraseri

PawPaw

Asimina triloba

Sweet-shrub; Carolina-allspice

Calycanthus floridus

Sassafras

Sassafras albidum

Spicebush

Lindera benzoin

Bloodroot

Sanguinaria canadensis

Riverweed

Podostemum ceratophyllum

Wild Hydrangea

Hydrangea arborescens radiata

Alumroot

Heuchera americana

Foamflower

Tiarella cordifolia

Witch-hazel

Hamamelis virginiana

Five-fingers

Potentilla canadensis

Agrimonia

Agrimonia parviflora

Wild Rose
Rosa carolina
Indian-physic
Gillenia trifoliata
Black Cherry; Wild Cherry
Prunus serotina
Redbud; Judas-tree
Cercis canadensis
White Wild Indigo
Baptisia alba
Naked-flower Tick-trefoil
Desmodium nudiflorum
Vetch
Vicia hageri
Hug-peanut
Amphicarpa bracteata
Wild Geranium
Geranium maculatum
Cranesbill
Geranium carolinianum
Flowering Spurge
Euphorbia corollata
Peanut-ivy
Rhus radicans
American Holly
Ilex opaca
Hears-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Yellow Buckeye
Aesculus octandra
Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Basswood; Linden
Tilia heterophylla
Bird-foot Violet
Viola pedata
Common Blue Violet
Viola papilionacea
Sweet White Violet
Viola blanda
Halberd-leaved Violet
Viola hastata
Canada Violet
Viola canadensis
Ginseng
Panax quinquefolium
Wild Sarsaparilla
Aralia nudicaulis
Sanicle; Snakeroot
Sanicula canadensis
Meadow Parsnip
Zizia trifoliata
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Alternate-leaved Dogwood
Cornus alternifolia
Spotted Wintergreen
Chimaphila maculata

Indian-pipe
Monotropa uniflora
Rosebay; Great Laurel
Rhododendron maximum
Carolina-laurel
Rhododendron minus
Pinxter-flower; Pinxter-bloom
Rhododendron nudiflorum
Mountain-laurel
Kalmia latifolia
Dog-hobble
Leucothoe axillaris
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Low-bush Blueberry
Vaccinium vacillans
Horse-sugar; Sweetleaf
Symplocos tinctoria
Carolina Silverbell
Halesia carolina
American Ash; White Ash
Fraxinus americana
Pennywort
Obolaria virginica
Bindweed
Calyptegia sericata
Phlox
Phlox amoena
Wild Comfrey
Cynoglossum virginianum
Lyre-leaved Sage
Salvia lyrata
Horse-balm
Collinsonia canadensis
Horse-balm
Collinsonia verticillata
Beardtongue
Penstemon sp.
False Foxglove
Aureolaria sp.
Lousewort
Pedicularis canadensis
Partridge-berry
Mitchella repens
Bluets
Houstonia longifolia
Bedstraw
Galium sp.
American Elderberry
Sambucus canadensis
Prenanthes
Prenanthes sp.
Rattlesnake-weed
Hieracium venosum
Common Dandelion
Taraxacum officinale
Small's Ragwort
Senecio smallii
Robin's-plantain
Erigeron pulchellus
Rosinweed
Silphium compositum

Green-and-gold
Chrysogonum virginianum australe
Coneflower
Rudbeckia laciniata
Coreopsis
Coreopsis major
Tree-ear
Auricularia auricula

FAUNA

Orchard Spider
Leucauge venusta
Basilia Spider
Mecynogea lemniscata
White-tail Dragonfly
Plathemis lydia
Green Tiger Beetle
Cicindela sexguttata
Marsh Beetle
Cyphon obscurus
Buprestid Beetle
Dicerca tuberculata
Firefly; Lightning Beetle
Ellychnia sp.
Twenty-spotted Lady Beetle
Psyllolobus vigintimaculata
Cylindrical Bark Beetle
Philothermus glabriculus
Flower Longhorn Beetle
Troxus cinnamomatus
Leaf-mining Beetle
Anoplitis inaequalis

Eastern Tiger Swallowtail
Papilio glaucus
Spring Azure (butterfly)
Celastrina ladon
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Carolina Satyr (butterfly)
Hermesptichia soybhis
Tent Caterpillar
Molocaoma sp.
Mountain Dusky Salamander
Desmognathus ochrophacus
Shovelnose Salamander
Leurognathus marmoratus
Spring Peeper
Hyla crucifer
Eastern Box Turtle
Terrapene carolina
Turkey Vulture
Cathartes aura
Belted Kingfisher
Ceryle alcyon
Pileated Woodpecker
Dryocopus pileatus
American Crow
Corvus brachyrhynchus
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Northern Cardinal
Cardinalis cardinalis
Beaver (dam)
Castor canadensis



Station Falls, Oconee County, Blue Ridge region.

(Photo by L. Chausse)



Orangeburg County

Santee Sinkholes and Santee State Park

Orangeburg County

June 24, 1995

This park is located on the south shore of Lake Marion providing good access to the lake with its aquatic and bird life, plus typical inner coastal plain wooded and open areas. These areas offer a good diversity of species typical of these types of habitats. The unusual feature of the park is the limestone rock near the surface, drained by underground streams. In areas where the overhead soil has collapsed, there are classic conic depressions called sinkholes. In other places the soil has been eroded so that the streams emerge from a hillside and offer caves with shallow stream bottoms as floors. It is possible to walk into these caves to areas where it is pitch black. Near these holes are calcium-loving plants, unusual in most parts of the state.

Note: The sink holes are in a restricted area with limited access to prevent damage from excessive use. Contact the park office to plan a visit to this area of the park.

Directions to Santee State State Park: From Orangeburg, take US 301 east; cross I-26 at Exit 154 and continue for 14 miles more. At the second traffic light, turn left (north) to Santee on US 15, 1.8 miles. In the center of Santee, turn left again onto SC 6 and drive west 1 mile. Turn right at the sign to Santee State Park (S 38-105) and drive 2.4 miles to the main park entrance; the park is on the right.



FLORA

Lichen

Graphis scripta
Graphis anfractuosa
Graphis mosquitensis
Graphis insidiosa
Graphis sp.
Phaeographis dendritica
Bacidia laurocerasi
Bacidia sp.
Cladonia cristatella vestita
Cladonia polycarpoides squamulosa
Cladonia polycarpoides polycarpoides
Cladonia peziziformis
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subpertusa
Pertusaria texana
Pertusaria tetrathalmia
Pertusaria sp.
Maronea constants

Haematomma puncticum
Haematomma cismonicum
Lecanora hageni
Lecanora cupressi
Lecanora varia
Lecanora sp.
Phycitis sp.
Bulbothrix goebelii
Bulbothrix tildiae
Hypotrachyna livida
Parmelia nularum
Parmetina michauxianum
Parmotrema perforatum
Parmotrema praesorediosum
Parmotrema subintinctum
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Rimelia cetrata
Buellia punctata
Buellia dialyza
Buellia curatellae
Physcia americana
Physcia millegrana

Heterodermia albicans
Heterodermia obscurata
Heterodermia spaltans sp. nov.
Pyxine caesiopruinosa
Phaeophyscia rubropulchra
Anthracotheicum libricola
Anthracotheicum sp.
Pyrenula nitida
Arthonia sp.
Trypethelium mastoideum
Trypethelium tropicum
Trypethelium virens
Porina nucula
Cinnamon Fern
Osmunda cinnamomea
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Netted Chain Fern
Woodwardia areolata

Ebony Spleenwort
Asplenium platyneuron
Spleenwort
Asplenium sp.
Mosquito Fern
Azolla caroliniana
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Eastern Red-cedar
Juniperus virginiana
Brazilian Elodea
Egeria densa
Oplismenus (grass)
Oplismenus setarius
Nut-rush
Scleria triglomerata
Jack-in-the-pulpit
Arisaema triphyllum
Giant Duckweed
Spirodela punctata
Spanish-moss
Tillandsia usneoides

Dayflower <i>Commelina communis</i>	Sweet-gum <i>Liquidambar styraciflua</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	Thread-legged Bug <i>Zelus exsanguis</i>
Water-hyacinth <i>Eichhornia crassipes</i>	Witch-hazel <i>Hamamelis virginiana</i>	American Ash; White Ash <i>Fraxinus americana</i>	Froghopper <i>Psosapha bicincta</i>
Carrión-flower <i>Smilax ecirrhata hugeri</i>	Redroot; Aven's <i>Geum canadense</i>	Fringe-tree <i>Chionanthus virginicus</i>	Common Eastern Velvet-ant <i>Daemania occidentalis</i>
Fringed Greenbrier <i>Smilax bona-nox</i>	Cocklebur <i>Agrimonia pubescens microcarpa</i>	Chinese Privet <i>Ligustrum sinense</i>	Red Imported Fire Ant <i>Solenopsis invicta</i>
Sweet-scented Smilax <i>Smilax smilax</i>	Hawthorn <i>Crataegus sp.</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Comet Darner <i>Anax longipes</i>
Wax-myrtle <i>Myrica cerifera cerifera</i>	Hog Plum <i>Prunus umbellata</i>	Angle-pod <i>Motelea sp.</i>	Southeastern Spinyleg (sign) <i>Dromogomphus armatus</i>
Blitternut Hickory <i>Carya cordiformis</i>	Black Cherry; Wild Cherry <i>Prunus serotina</i>	Beautyberry <i>Callicarpa americana</i>	Halloween Pennant (dragonfly) <i>Celithemis eponina</i>
Water Hickory <i>Carya aquatica</i>	Redbud; Judas-tree <i>Cercis canadensis</i>	Woolly Mullein <i>Verbascum thapsus</i>	Eastern Pondhawk <i>Erythemis simplicicollis</i>
Mackernut Hickory <i>Carya tomentosa</i>	Water Locust <i>Gleditsia aquatica</i>	Cross Vine <i>Aristolochia capreolata</i>	Blue Dragonlet <i>Erythroneura minuscula</i>
American Hornbeam; Ironwood <i>Carpinus caroliniana</i>	Beggar-lice <i>Desmodium sp.</i>	Trumpet Vine <i>Campsis radicans</i>	Golden-winged Skimmer <i>Libellula auripennis</i>
Beech <i>Fagus grandifolia</i>	Tread-softly <i>Cnidococcus stimulosis</i>	Squaw-root <i>Conopholis americana</i>	Slaty Skimmer <i>Libellula incesta</i>
Chinquapin <i>Castanea sp.</i>	Poison-ivy <i>Rhus radicans</i>	Ruellia <i>Ruellia carolinensis</i>	Pied Skimmer <i>Libellula lactosa</i>
White Oak <i>Quercus alba</i>	Poison-oak <i>Rhus toxicodendron</i>	Partridge-berry <i>Mitchella repens</i>	Blue Dasher <i>Pachydiplax longipennis</i>
Live Oak <i>Quercus virginiana</i>	Winged Sumac <i>Rhus copallina</i>	Coral Honeysuckle <i>Lonicera sempervirens</i>	Eastern Amberwing (dragonfly) <i>Perithemis tenera</i>
Black Oak <i>Quercus velutina</i>	American Holly <i>Ilex opaca</i>	Rusty Black-haw <i>Viburnum rufidulum</i>	Ebony Jewelwing <i>Colaptes auratus</i>
Southern Red Oak; Spanish Oak <i>Quercus falcata falcata</i>	Red Maple <i>Acer rubrum</i>	Wahlenbergia <i>Wahlenbergia marginata</i>	Citrine Forktail (damselfly) <i>Ischnura hastata</i>
Water Oak <i>Quercus nigra</i>	Chalk Maple <i>Acer saccharum leucoderme</i>	Pale Indian-plantain <i>Cacalia atriplicifolia</i>	Rose Chafer <i>Macrodactylus angustatus</i>
Laurel Oak <i>Quercus laurifolia</i>	Red Buckeye <i>Aesculus pavia</i>	Elephant's-foot <i>Elephantopus tomentosus</i>	Eyed Elater <i>Alaus oculatus</i>
Slippery Elm <i>Ulmus rubra</i>	Spotted Touch-me-not <i>Impatiens capensis</i>	Rough Daisy Fleabane <i>Erigeron strigosus</i>	Net-winged Beetle <i>Calopteron sp.</i>
Elm <i>Ulmus sp.</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Sweet Goldenrod <i>Solidago odora</i>	Spotted Lady Beetle <i>Coleomegilla maculata</i>
Sugarberry; Hackberry <i>Celtis laevigata</i>	Summer Grape <i>Vitis aestivalis</i>	Black-eyed Susan <i>Rudbeckia sp.</i>	Smartweed Flea Beetle <i>Disonycha pentastriata</i>
Hackberry <i>Celtis occidentalis georgiana</i>	Pepper-vine <i>Ampelopsis arborea</i>	FAUNA	Pipeline Swallowtail <i>Battus philenor</i>
Red Mulberry <i>Morus rubra</i>	Basswood; Linden <i>Tilia sp.</i>	White-lipped Forest Snail <i>Triodopsis albolaris</i>	Zebra Swallowtail <i>Euryides marcellus</i>
False Nettle <i>Boehmeria cylindrica</i>	Rockrose, Frostweed <i>Helianthemum rosmarinifolium</i>	Chain River Water Snail <i>Goniobasis catenaria</i>	Eastern Tery Swallowtail <i>Papilio glaucus</i>
Heartleaf <i>Hesaystis arifolia</i>	Passionflower; Maypops <i>Passiflora incarnata</i>	Asiatic Clam <i>Corbicula sp.</i>	Spicebush Swallowtail <i>Papilio troilus</i>
Windflower <i>Thalictrum thalictroides</i>	Yellow Passionflower <i>Passiflora lutea</i>	Almond Millipede <i>Signoria aberrans</i>	Cloudless Sulphur <i>Phoebastria senae eubale</i>
Liverleaf <i>Hepatica americana</i>	Pennywort <i>Hydrocotyle sp.</i>	Spiny-backed Spider <i>Micrathena gracilis</i>	Sleepy Orange (butterfly) <i>Eurema nicippe</i>
Coralbeads <i>Coccoloba carolinus</i>	Flowering Dogwood <i>Cornus florida</i>	Arrow-shaped Spiny-back <i>Micrathena saginata</i>	Red-spotted Purple (butterfly) <i>Limenitis archimedes atysanas</i>
PawPaw <i>Asimina triloba</i>	Swamp Dogwood; Stiff Cornel <i>Cornus stricta</i>	Long-jawed Orb-weaver <i>Tetragnatha sp.</i>	Viceroy; Mimic <i>Limenitis archippus</i>
Sassafras <i>Sassafras albidum</i>	Spotted Wintergreen <i>Chimaphila maculata</i>	Common Meadow Katydid <i>Orchelimum vulgare</i>	Carolina Satyr (butterfly) <i>Hemipterichia arylia</i>
Spicebush <i>Lindera benzoin</i>	Piedmont Azalea <i>Rhododendron canadense</i>	Black-sided Pygmy Grasshopper <i>Tettigidea lateralis</i>	Common Wood-nymph (butterfly) <i>Cercyonis pegala</i>
Bloodroot <i>Sanguinaria canadensis</i>	Sparkleberry <i>Vaccinium arboreum</i>	Carolina Locust <i>Dissosteira carolina</i>	Duskywing Skipper <i>Erynnis sp.</i>
Climbing-hydrangea <i>Decumaria barbara</i>	Persimmon <i>Diospyros virginiana</i>	Red-legged Grasshopper <i>Melanoplus femurrubrum</i>	Southern Skipperling <i>Copaeodes minimus</i>

Santee Sinkholes and Santee State Park (continued)

June 24, 1995

Fiery Skipper

Heliothia phyleus

Banded Tussock Moth

Halysidota tessellaris

Southern Toad

Bufo terrestris

Broadhead Skink

Eumeces laticeps

Skink

Eumeces sp.

Anhinga; Snakebird

Anhinga anhinga

Double-crested Cormorant

Phalacrocorax auritus

Great Blue Heron

Ardea herodias

Mallard

Anas platyrhynchos

Laughing Gull

Larus atricilla

Turkey Vulture

Cathartes aura

Osprey

Pandion haliaetus

Northern Bobwhite

Colinus virginianus

Yellow-billed Cuckoo

Coccyzus americanus

Ruby-throated Hummingbird

Archilochus colubris

Red-bellied Woodpecker

Melanerpes carolinus

Red-headed Woodpecker

Melanerpes erythrocephalus

Downy Woodpecker

Picoides pubescens

Pileated Woodpecker

Dryocopus pileatus

Eastern Kingbird

Tyrannus tyrannus

Great Crested Flycatcher

Myiarchus cinerascens

Eastern Wood-pewee

Contopus virens

Acadian Flycatcher

Empidonax virens

Barn Swallow

Hirundo rustica

Blue Jay

Cyanocitta cristata

Fish Crow

Corvus ossifragus

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

Carolina Wren

Thryothorus ludovicianus

Eastern Bluebird

Sialia sialis

Wood Thrush

Hylocichla ustulata

American Robin

Turdus migratorius

Northern Mockingbird

Mimus polyglottos

Brown Thrasher

Toxostoma rufum

Northern Parula

Parula americana

Yellow-throated Warbler

Dendroica dominica

Pine Warbler

Dendroica pinus

Northern Cardinal

Cardinalis cardinalis

Common Grackle

Quiscalus quiscula

Orchard Oriole

Icterus spurius

Summer Tanager

Piranga rubra

Gray Squirrel

Sciurus carolinensis

Raccoon (tracks)

Procyon lotor

White-tailed Deer (tracks)

Odocoileus virginianus

Pickens County

Eastatoe Creek Heritage Preserve

Pickens County

July 27, 1991

Eastatoe (pronounced East-ah-toy) is an Indian word meaning "valley of the green bird" referring to the now extinct Carolina parakeet. It is now the only known location in North America of the tunbridge fern (*Hymenophyllum tunbridgense*). Unfortunately, some of the really rare species such as this fern are in almost completely inaccessible areas of the gorge and were not encountered on this trip. The two and a half mile trail from the parking area down into the creek gorge traverses a wide spectrum of habitats, from open roadside to steep wooded hillsides with mature hemlocks to streamside floodplain at the bottom; the flora and fauna one can encounter are numerous and varied. As all persons who attended this trip can tell you, this area is prone to a regular summer phenomenon known as the late afternoon thunderstorm. They can come up very quickly and get you very wet. They also seem to sense when people are farthest from their cars! On this trip, the term "drowned rat" seemed to be used frequently as we returned to our cars. We suggest raingear even when the skies look sunny.

Directions to Eastatoe Creek Heritage Preserve: From Greenville, take US 276 north through Travelers Rest and Marietta to Cleveland. Turn left on US 276/SC 11 and go 6 miles. Where US 276 forks right toward Caesars Head, take the left fork on SC 11, and continue 11 miles farther. Turn right (north) on US 178, drive 7.4 miles to Rocky Bottom, and continue 0.9 miles farther. Make a sharp left onto a gravel road, and immediately take the right fork up the hill to the parking lot.

Stalked puffball-in-aspic, *Calostoma cinnabarinum*.

(Photo by A. Ciegler)



FLORA

Lichen

Collemia subflaccidum
Leptogium corticola
Graphis scripta
Graphis atrorubens
Lecidea russula
Porpidia alboaculeolens
Baromyces fungoides
Cladonia bacillaris
Cladonia capitata
Cladonia chlorophaea
Cladonia cristatella scyphulifera
Cladonia cristatella cristatella
Cladonia cristatella ramosa
Cladonia cristatella vestita
Cladonia cristatella pleurocarpa
Cladonia cristatella degenerata
Cladonia cylindrica
Cladonia leporina ramosa
Cladonia polycarpoides
Pertusaria copiosa
Pertusaria subpernosa
Pertusaria texana
Pertusaria tetrathalmia
Pertusaria ophthalmiza
Pertusaria sp.
Lecanora sp.
Ochrolechia africana
Bulbothrix confederata
Parmelina aurulenta
Parmelina galbina
Parmotrema cetratum
Parmotrema perforatum
Parmotrema reticulatum
Pseudoparmelia caroliniana
Ramalina americana
Usnea rubicunda

Usnea strigosa
Usnea trichodea
Buellia parasema
Buellia punctata
Buellia elizae
Physcia aipolia
Physcia americana
Heterodermia obscurata
Heterodermia speciosa
Heterodermia casarettiana
Phaeophyscia imbricata
Phaeophyscia rubropulchra
Physconia enteroxantha
Pyrenula mamillana
Pyrenula nitida
Mycoporum compositum
Porina raphidosperma
Maidenhair Fern
Adiantum pedatum
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Broad Beech-Fern
Thelypteris hexagonoptera
New York Fern
Thelypteris noveboracensis
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
White Pine
Pinus strobus
Eastern Hemlock
Tsuga canadensis
Cane; Switch Cane
Arundinaria gigantea

Goose Grass
Eleusine indica
Dallis Grass
Paspalum dilatatum
Microstegium (grass)
Microstegium vimineum
Nut-rush
Scleria triglomerata
Jack-in-the-pulpit
Arisaema triphyllum
False Solomon's Seal
Smilacina racemosa
Solomon's-seal
Polygonatum biflorum
Carolina Lily
Lilium michauxii
Wild Yam
Dioscorea villosa
Yellow Star-grass
Hypoxis hirsuta
Crested Iris
Iris cristata
Small Green Wood Orchid
Habenaria clavellata
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Mockernut Hickory
Carya tomentosa
Cherry Birch
Betula lenta
Beech
Fagus grandifolia
American Chestnut
Castanea dentata
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Red Oak
Quercus rubra
Scarlet Oak
Quercus coccinea
Wood-nettle
Laportea canadensis
Buffalo-nut
Pyralia pubera
Dutchman's-pipe
Aristolochia macrrophylla
Virginia Snakeroot
Aristolochia serpentaria
Pokeweed; Pokeberry
Phytolacca americana
Yellowroot
Xanthorrhiza simplicissima
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Cucumber-tree
Magnolia acuminata
Sweet-shrub; Carolina-allspice
Calyculanthus floridus
Sassafras
Sassafras albidum

Climbing-hydrangea
Decumaria barbara
Mock-orange
Philadelphus inodorus
Wild Hydrangea
Hydrangea arborescens
Foamflower
Tiarella cordifolia
Sweet-gum
Liquidambar styraciflua
Indian Strawberry
Duchesnea indica
Five-fingers
Potentilla canadensis
Downy Serviceberry
Amelanchier arborea
Sensitive-brier
Schrankia microphylla
Pencil-flower
Sylosanthes biflora
Naked-flower Tick-trefoil
Desmodium nudiflorum
Sericea
Lespedeza cuneata
Black Locust
Robinia pseudo-acacia
Flowering Spurge
Euphorbia corollata
Poison-ivy
Rhus radicans
Smooth Sumac
Rhus glabra
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Basswood; Linden
Tilia heterophylla
St.-Andrew's-cross
Hypericum stragulum
Halberd-leaved Violet
Viola hastata
Yellow Passionflower
Passiflora lutea
Spikenard
Aralia racemosa
Sanicle; Snakeroot
Sanicula canadensis
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Alternate-leaved Dogwood
Cornus alternifolia
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora

Eastatoe Creek Heritage Preserve (continued) July 27, 1991

Rosebay; Great Laurel
Rhododendron maximum
 Carolina-laurel
Rhododendron minus
 Mountain-laurel
Kalmia latifolia
 Dog-hobble
Leucothoe axillaris
 Sourwood
Oxydendrum arborescens
 Trailing-arbutus
Epigaea repens
 Galax; Galax; Coltsfoot
Galax aphylla
 Whorled Loosestrife
Lysimachia quadrifolia
 Horse-sugar; Sweetleaf
Symplocos tinctoria
 Bindweed
Calyptegia sericata
 Lop-seed
Phryma leptostachya
 Bee-balm
Monarda clinopodia
 Mountain Mint
Pycnanthemum incanum
 Cross Vine
Anisostichus capreolata

Squaw-root
Conopholis americana
 Partridge-berry
Mitchella repens
 Bluets
Houstonia purpurea
 Indian-tobacco
Lobelia inflata
 Prenanthes
Prenanthes sp.
 Pussy-toes
Antennaria sp.
 Coreopsis
Coreopsis major
 Golden Chanterelle
Cantharellus cibarius
 Flame-colored Chanterelle
Cantharellus ignicolor
 Chanterelle
Craterellus cornucopioides
 Cinnabar-red Polypore
Pycnoporus cinnabarinus
 Indigo Milky
Lactarius indigo
 Magnolia-cone Mushroom
Strobilurus conigenoides
 Stalked Puffball-in-asple
Calostoma cinnabarinum

FAUNA

Giant Forest Snail
Mesodon normalis
 Arrow-shaped Spiny-back
Microthana sagittata
 Writing Spider
Argiope aurantia
 Orb-weaver
Neoscona sp.
 June-beetle Wasp
Pelecinus polyturator
 Leaf-footed Bug
Acanthoccephala sp.
 Oak-apple (gall wasp)
Amphibolips inanis
 Green Tiger Beetle
Cicindela sexguttata
 Red-bellied Tiger Beetle
Cicindela rufigiventris
 Purple Ground Beetle
Dicaeolus purpuratus
 Green Foliage Ground Beetle
Lebia viridis
 Japanese Beetle
Popillia japonica
 Bean Leaf Beetle
Cerotoma trifurcata
 Gray-sided Oak Weevil
Pandeletius hilaris
 Eastern Tiger Swallowtail
Papilio glaucus
 Banded Hairstreak
Satyrus calanus

Eastern Tailed-blue(butterfly)
Evers comyntas
 Pearl Crescent
Phyciodes tharos
 Silver-spotted Skipper
Ergatyreus clarus
 Dagger Moth (larva)
Acronicta sp.
 Ashen Pinion Moth
Lithophane antennata
 Cope's Gray Treefrog (call)
Hyla chrysoscelis
 Gray Treefrog (call)
Hyla versicolor
 Eastern Box Turtle
Terrapene carolina
 Eastern Fence Lizard
Sceloporus undulatus
 Skink
Eumeces sp.
 Rat Snake
Elaphe obsoleta
 Eastern Screech-owl (call)
Otus asio
 Chimney Swift
Chaetura pelagica
 American Crow
Corvus brachyrhynchos
 Northern Cardinal
Cardinalis cardinalis
 Indigo Bunting
Passerina cyanea
 Rufous-sided Towhee
Pipilo erythrophthalmus

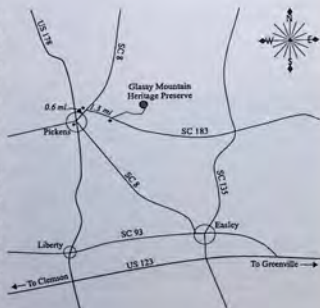
Glassy Mountain Heritage Preserve

Pickens County

June 26, 1993

Glassy Mountain just outside the town of Pickens is a granite-based monadnock that has escaped most disturbances from human impact. On the top are several interesting exposed rock areas with uncommon plants and insects. On this day there was a large crop of just ripened blackberries that were happily experienced by all who attended. An extra bonus for visits to this site are the glorious views of the rolling piedmont that can be glimpsed from the rock faces. This site is rich in specimens not frequently encountered in the upstate of South Carolina.

Directions to Glassy Mountain Heritage Preserve: From the center of downtown Pickens, go northeast on SC 8 for 0.6 mile, then turn right (east toward Greenville) onto SC 183. Drive 1.3 miles and make a left fork onto South Glassy Mountain Road; (this is only a 45-degree turn instead of a full 90 degrees.) Proceed 1.1 miles. Keep left when Glassy Mountain Church Road bears right. The road will have narrowed and become rather steep. The trail head is on the right 50-75 feet past that intersection.



Science and Nature Notes: Monadnocks

Glassy Mountain is an excellent example of the geologic feature known as a monadnock. When the Appalachians were formed as a result of the collision of the North American tectonic plate with another set of land masses, a series of erosion events commenced affecting this homogenous granitic area. In a region of moderate rainfall, gullies began to develop on the surface. Then, as rains continued, adjacent gullies became connected on the downslopes to form valleys. Continued erosion eventually formed tributaries which dissected the mountains into short hills and spurs. Over a period of millions of years, the valleys continued to grow with erosional forces consuming much of the surrounding land mass. Steep slopes were eroded more rapidly than the valleys, so the result was a gradual decrease in relief. The valleys slowly widened until what remained are today's gently rolling Piedmont (a peneplane). A few residual remnants of the former mountains remain as isolated hills of resistant rock rising above the surrounding peneplane. These island-like masses are called monadnocks. In South Carolina, additional monadnocks include Sugarloaf Mountain in Chesterfield County and Cooks Mountain in Richland County.

FLORA

Lichen

Collema subflaccidum
Leptogium cyanescens
Leptogium phyllocarpum
Pannaria tavaresii
Coccocarpia imbricata sp. nov.
Nephroma helveticum
Peltigera canina
Lobaria pulmonaria
Sticta weigelii
Cladonia arbuscula
Bacidia schweinitzii
Leptogium austroamericanum
Physcia bacillaris
Cladonia caroliniana
Cladonia chlorophaea
Cladonia coniocraea
Cladonia didyma
Cladonia furcata subulata
Cladonia furcata f. rigidula
Cladonia furcata f. subulata
Cladonia polycarpoides epiphylla
Cladonia squamosa
Pertusaria estiolata
Pertusaria paratuberculifera
Pertusaria propinqua
Pertusaria subpernata
Pertusaria texana
Pertusaria velata
Lecanora cypressi
Lecanora pallida
Lecanora varia
Lecanora sp.
Ochnolechia africana
Phycitis sp.
Cetraria ciliaris
Cetraria sp.
Hypocetraria livida
Parmelia horrescens
Parmelia minarum
Parmotrema austrosinense
Parmotrema mellissii
Xanthoparmelia conspersa
Xanthoparmelia plittii
Xanthoparmelia tasmanica

Flavoparmelia baltimorensis
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Imshaugia aleurites
Rimelia reticulata
Usnea ceratina
Usnea dasypoda
Usnea rubicunda
Usnea strigosa
Usnea subulifera
Usnea subfusca
Buellia stellulata
Buellia punctata
Buellia disciformis
Physcia alipolia
Physcia pseudospeciosa
Physcia subulilis
Heterodermia echinata
Heterodermia speciosa
Heterodermia casarettiana
Pycnia sorediata
Phaeophyscia imbricata
Phaeophyscia rubropulchra
Dermatocarpon sp.
Normandina pulchella

Rock Spikemoss

Selaginella rupestris

Lip Fern

Cheilanthes sp.

Ebony Spleenwort

Asplenium platyneuron

Virginia Pine; Scrub Pine

Pinus virginiana

Eastern Red-cedar

Juniperus virginiana

Cane; Switch Cane

Arundinaria gigantea

Melic Grass

Melica nutica

Dallis Grass

Paspalum dilatatum

Broomsedge

Andropogon ternarius

Spiderwort

Tradescantia sp.

Greenbrier; Bullbrier

Smilax rotundifolia

Fringed Greenbrier

Smilax bona-nox

Sawbrier; Greenbrier

Smilax glauca

False Solomon's Seal

Smilacina racemosa

Solomon's-seal

Polygonatum biflorum

Bear-grass

Yucca filamentosa

Wild Yam

Dioscorea villosa

Pignut Hickory

Carya glabra

Rock Chestnut Oak

Quercus prinus

Red Oak

Quercus rubra

Black Jack Oak

Quercus marilandica

Pokeweed; Pokeberry

Phytolacca americana

Rock-portulaca

Talinum terrefolium

Common Chickweed

Stellaria media

Sandwort

Arenaria groenlandica

Deftfoot Pink

Dianthus armeria

Thimbleweed

Anemone virginiana

Tulip-poplar

Liriodendron tulipifera

Sassafras

Sassafras albidum

Poor-man's-pepper

Lepidium virginicum

Wild Hydrangea

Hydrangea arborescens

Alumroot

Heuchera sp.

Five-fingers

Potentilla canadensis

Wild Rose

Rosa carolina

Hawthorn

Crataegus sp.

Peach

Prunus persica

Black Cherry; Wild Cherry

Prunus serotina

Sensitive-brier

Schrankia microphylla

Wild Sensitive-plant

Cassia nictitans

Rabbit Foot Clover

Trifolium arvense

Sericea

Lespedeza cuneata

Black Locust

Robinia pseudo-acacia

Wood-sorrel

Oxalis sp.

Rushfoil

Crotonopsis elliptica

Tragia

Tragia sp.

Flowering Spurge

Euphorbia corollata

Poison-ivy

Rhus radicans

Poison-oak

Rhus toxicodendron

Winged Sumac

Rhus copallina

Smooth Sumac

Rhus glabra

Red Maple

Acer rubrum

Chalk Maple

Acer saccharum leucoderme

Painted Buckeye

Aesculus sylvatica

New-Jersey-tea

Ceanothus americanus

Virginia-creeper

Vitis rotundifolia

Muscadine; Bullace

Vitis rotundifolia

Glassy Mountain Heritage Preserve (continued)

June 26, 1993

Summer Grape
Vitis aestivalis
 Basswood; Linden
Tilia sp.
 St.-Andrew's-cross
Hypericum hypericoides
 Pineweed
Hypericum gentianoides
 Yellow Passionflower
Passiflora lutea
 Prickly-pear
Opuntia compressa
 Meadow Parsnip
Zizia trifoliata
 Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
 Flowering Dogwood
Cornus florida
 Silky Dogwood
Cornus amomum
 Spotted Wintergreen
Chimaphila maculata
 Indian-pipe
Monotropa uniflora
 Sourwood
Oxydendrum arboreum
 Sparkleberry
Vaccinium arboreum
 Deerberry; Squaw-huckleberry
Vaccinium stamineum
 Low-bush Blueberry
Vaccinium vacillans
 Persimmon
Diospyros virginiana
 American Ash; White Ash
Fraxinus americana
 Fringe-tree
Chionanthus virginicus
 Chinese Privet
Ligustrum sinense
 Blue-star
Amsonia tabernaemontana
 Narrowleaf Milkweed
Asclepias verticillata
 Butterfly-weed
Asclepias tuberosa
 Milkweed
Asclepias amplexicaulis
 White Milkweed
Asclepias variegata
 Angle-pod
Matelea sp.
 Standing-cypress
Ipomopsis rubra
 Beautyberry
Callicarpa americana
 Bee-balm
Monarda clinopodia
 Princess-tree
Paulownia tomentosa
 Woolly Mullein
Verbascum thapsus
 False Foxglove
Antirrhinum sp.

Trumpet Vine
Campsis radicans
 Ruellia
Ruellia carolinensis
 English Plantain
Plantago lanceolata
 Bluets
Houstonia purpurea
 Bedstraw
Galium circaezans
 Japanese Honeysuckle
Lonicera japonica
 Coral Honeysuckle
Lonicera sempervirens
 Black-haw; Nanny-berry
Viburnum prunifolium
 Maple-leaf Viburnum
Viburnum acerifolium
 Venus'-looking-glass
Specularia sp.
 Common Ragweed
Ambrosia artemisiifolia
 Wild Lettuce
Lactuca sp.
 Sow-thistle
Sonchus sp.
 Hawkweed
Hieracium sp.
 Pyrrhopappus
Pyrrhopappus carolinianus
 Mule-ears; Bitterweed
Senecio tomentosus
 Fireweed
Erechtis hieracifolia
 Pussy-toes
Antennaria plantaginifolia
 Rabbit-tobacco
Gnaphalium obtusifolium
 Erigeron sp.
 Horseweed; Mare's-tail
Erigeron sp.
 White-topped Aster
Aster solidagineus
 Wild Quinine
Parthenium integrifolium
 Coreopsis
Coreopsis major
Coreopsis sp.

FAUNA
 Walkingstick
Diapheromera carolina
Diapheromera sp.
 Orange-winged Grasshopper
Pardalophora phoenicoptera
 Rock-loving Grasshopper
Trimerotropis saxatilis
 Spur-throated Grasshopper
Melanoplus sp.
 Shield-backed Katydid
Atriatiscus sp.
 Red Pouch Sumac Gall (aphid)
Melanaphis rhols

Hickory Vein Gall (aphid)
Phylloxera caryae-venae
 Conical Hickory Leaf Gall
Phylloxera caryae-foliae
 Blueberry Stem Gall (wasp)
Hemadas nubilipennis
 Oak Flake Gall (wasp)
Neuroterus floccus
 Chestnut Oak Vein Gall (wasp)
Plagiostrochus reticulatus
 Conical Hickory Gall (midge)
Caryomyia sanguinolenta
 Hickory Leaf Gall (midge)
Caryomyia consobrina
 Hickory Onion Gall (midge)
Caryomyia holotricha
 Hickory Tube Gall (midge)
Caryomyia tubicola
 Hickory Leaf Gall (midge)
Caryomyia antennata
 Hickory Midrib Gall (midge)
Caryomyia sp.
 White-tail Dragonfly
Plathemis lydia
 Tiger Beetle
Cicindela unipunctata
 Carrion Beetle
Silpha americana
Silpha noveboracensis
 Tumblebug; Dung Beetle
Glaphyrocatharus viridis
 Flower Scarab Beetle
Trigonopeltastes delta
 Click Beetle
Athous rufifrons
Horistonotus curvatus
 Soldier Beetle
Cantharis sp.
 Net-winged Beetle
Plateros sollicitus
 Firefly; Lightning Beetle
Lucidota sp.
 Skin Beetle
Dermestes talpinus
 Tumbling Flower Beetle
Mordellistena sp.
 Long-jointed Bark Beetle
Arthromacra aenea
 Dusky Lady Beetle
Scymnus puncticollis

Flower Longhorn Beetle
Typocerus velutinus
Typocerus sp.
Strangalina bicolor
Strangalina luteicornis
Strangalina famelica
 Flea Beetle
Altica sp.
 Pear-shaded Weevil
Apion crassum
 Pipevine Swallowtail
Battus philenor
 Sleepy Orange (butterfly)
Eurema nicippe
 Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
 Luna Moth
Actias luna
 Leconte's Haploa Moth
Haploa lecontei
 Fowler's Toad
Bufo woodhousei
 Eastern Box Turtle
Terrapene carolina
 Eastern Fence Lizard
Sceloporus undulatus
 Eastern Kingsnake
Lampropeltis getulus
 Turkey Vulture
Cathartes aura
 Northern Bobwhite
Colinus virginianus
 Yellow-billed Cuckoo
Coccyzus americanus
 Chimney Swift
Chaetura pelagica
 Pileated Woodpecker
Dryocopus pileatus
 Great Crested Flycatcher
Myiarchus crinitus
 American Crow
Corvus brachyrhynchos
 Solitary Vireo
Vireo solitarius
 Pine Warbler
Dendroica pinus
 Northern Cardinal
Cardinalis cardinalis
 Indigo Bunting
Passerina cyanea
 Rufous-sided Towhee
Pipilo erythrophthalmus
 Brown-headed Cowbird (egg)
Molothrus ater



(Photo by L. Smith)
 Fringe-tree, *Chionanthus virginicus*, in fruit.



(Photo by L. Smith)
 Leconte's haploa moth, *Haploa lecontei*.

Keowee-Toxaway State Park

Pickens County

April 25, 1987

Keowee-Toxaway State Park features Native American history as well as natural history. Due to the rolling nature of the terrain, both dry and moist habitat specimens are encountered. Since SCAN members camped in the park Saturday night, a frog-hunting trip was held with great success. Spring peepers were spotted in the act of calling with their inflated vocal sacs. On the day-use trails, spring wildflowers were in bloom, as were many trees. Many of the varied, but typical upper Piedmont plants, were encountered on this trip.

Directions to Keowee-Toxaway State Park: From Greenville, travel north on US 276 through Travelers Rest and Marietta to Cleveland, about 18-20 miles. Turn left on US 276/SC 11 and go 6 miles. Where US 276 forks right toward Caesars Head State Park, take the left fork on SC 11. After 11 miles you will come to the intersection with US 178. Continue 8.5 miles farther on SC 11. Just after the junction with SC 133 from Nine Times on the left, there are two park entrance roads. The right (north) turn leads to the offices, campground, and trails; the left (south) fork leads to the nature center, picnic ground, and a short loop trail.



FLORA

Cinnamon Fern

Osmunda cinnamomea

Maidenhair Fern

Adiantum pedatum

Bracken

Pteridium aquilinum

Christmas Fern

Polystichum acrostichoides

Broad Beech Fern

Thelypteris hexagonoptera

New York Fern

Thelypteris noveboracensis

Resurrection Fern

Polypodium polypodioides

White Pine

Pinus strobus

Short-leaf Pine

Pinus echinata

Virginia Pine; Scrub Pine

Pinus virginiana

Eastern Hemlock

Tsuga canadensis

Cane; Switch Cane

Arundinaria gigantea

Mellic Grass

Melica mutica

Needle Grass

Stipa avenacea

Jack-in-the-pulpit

Arisaema triphyllum

Woodrush

Luzula echinata

Trillium

Trillium discolor

Wake-robin; Red Trillium

Trillium erectum vaseyi

Catesby's Trillium

Trillium catesbaei

Indian Cucumber-root

Medeola virginiana

False Solomon's Seal

Smilacina racemosa

Solomon's-seal

Polygonatum biflorum

Blazing-star

Chamaelirium luteum

Dog's-tooth-violet

Erythronium americanum

Bellwort

Uvularia perfoliata

Bellwort

Uvularia sessilifolia

Yellow Star-grass

Hypoxis hirsuta

Dwarf Iris

Iris verna

Showy Orchis

Orchis spectabilis

Downy Rattlesnake-plantain

Goodyera pubescens

Tag Alder

Alnus serrulata

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

White Oak

Quercus alba

Post Oak

Quercus stellata

Rock Chestnut Oak

Quercus prinus

Red Oak

Quercus rubra

Scarlet Oak

Quercus coccinea

Spanish Oak

Quercus falcata

Black Jack Oak

Quercus marilandica

Indian-olive

Nestora umbellata

Buffalo-nut

Pyralia pubera

Mistletoe

Phoradendron serotinum

Wild Ginger

Hexastylis shuttleworthii

Yellowroot

Xanthoxylum simplicissimum

Windflower

Thalictrum thalictroides

Anemone quinquefolia

Anemone lancifolia

Tulip-poplar

Liriodendron tulipifera

Dwarf PawPaw

Asimina parviflora

Sweet-shrub; Carolina-allspice

Calycanthus floridus

Sassafras

Sassafras albidum

Bloodroot

Sanguinaria canadensis

Climbing-hydrangea

Decumaria barbara

Wild Hydrangea

Hydrangea arborescens

Foamflower

Tiarella cordifolia

Witch-hazel

Hamamelis virginiana

Five-fingers

Potentilla canadensis

Indian-physic

Gillenia trifoliata

Hawthorn

Cornus sp.

Downy Serviceberry

Amelanchier arborea

Black Cherry; Wild Cherry

Prunus serotina

Redbud; Judas-tree

Cercis canadensis

Wild Indigo

Baptisia bracteata

Keowee-Toxaway State Park (continued)

April 25, 1987

Black Locust

Robinia pseudo-acacia

Wild Geranium

Geranium maculatum

Poison-ivy

Rhus radicans

American Holly

Ilex opaca

Hearts-a-burstin'-with-love

Eustoma americanus

Red Maple

Acer rubrum

Painted Buckeye

Aesculus sylvatica

Virginia-creeper

Parthenocissus quinquefolia

Muscadine; Bullace

Vitis rotundifolia

SL-Andrew's-cross

Hypericum hypericoides

Bird-foot Violet

Viola pedata

Common Blue Violet

Viola papilionacea

Wood Violet

Viola palmata triloba

Sweet White Violet

Viola blanda

Halberd-leaved Violet

Viola hastata

Violet

Viola walteri

Golden-Alexander

Zizia aurea

Blackgum

Nyssa sylvatica

Flowering Dogwood

Cornus florida

Alternate-leaved Dogwood

Cornus alternifolia

Spotted Wintergreen

Chimaphila maculata

Rosebay; Great Laurel

Rhododendron maximum

Carolina-laurel

Rhododendron minus

Pinxter-flower; Pinxter-bloom

Rhododendron nudiflorum

Mountain-laurel

Kalmia latifolia

Dog-hobble

Leucothoe axillaris

Sourwood

Oxydendrum arboreum

Trailing-arbutus

Epigaea repens

Sparkleberry

Vaccinium arboreum

Deerberry; Squaw-huckleberry

Vaccinium stamineum

Low-bush Blueberry

Vaccinium vacillans

Galax; Galaxy; Coltsfoot

Galax aphylla

Horse-sugar; Sweetleaf

Symplocos tinctoria

Carolina Silverbell

Halesia carolina

Bigleaf Snowbell

Syrax grandifolia

American Ash; White Ash

Fraxinus americana

Indian-hemp; Dogbane

Apocynum sp.

Creeping Philox

Philox stolonifera

Wild Comfrey

Cynoglossum virginianum

Cross Vine

Anisotrichus caprolata

Beech-drops

Epifagus virginiana

Partridge-berry

Mitchella repens

Bluets

Houstonia caerulea

Rattlesnake-weed

Hieracium venosum

Dwarf Dandelion

Krigia virginica

Pussy-toes

Antennaria plantaginifolia

Robin's-plantain

Erigeron pulchellus

Green-and-gold

Chrysogonum virginianum australe

Coreopsis

Coreopsis major

Yellow Morel

Morchella esculenta

Wrinkled Thimble-cap

Verpa bohemica

Devil's-urn

Urnula craterium

Eyelash Cup

Scutellinia scutellata

Dead-man's-fingers

Xylaria polymorpha

Ochre Spreading Tooth

Seccherium ochraceum

Common Split-gill

Schizophyllum commune

Fawn Mushroom

Pluteus cervinus

Fuzzy-foot

Xeromphalina campanella

Pigskin Poison Puffball

Scleroderma citrinum

Pine-oak Rust

Cronartium quercuum

FAUNA

Giant Forest Snail

Mesodon normalis

White-lipped Forest Snail

Mesodon thyridus

Delta-spotted Spiketail

Cordulegaster diastatops

Green Tiger Beetle

Cicindela sexguttata

Zebra Swallowtail

Eurytides marcellus

Eastern Tiger Swallowtail

Papilio glaucus

Eastern Tailed-blue(butterfly)

Everes coryntas

Pearl Crescent

Phyciodes tharos

Duskywing Skipper

Erynnys sp.

Rosy Maple Moth

Dryocampa rubicunda

Polyphemus Moth (cocoon)

Antheraea polyphemus

White-dotted Prominent Moth

Nadata gibbosa

Virgin Tiger Moth

Grammia virgo

Large Necklace Moth

Hypsophora monilis

Seal Salamander

Desmognathus monticola

Mountain Dusky Salamander

Desmognathus ochropheus

Spring Peeper

Hyla crucifer

Green Frog; Bronze Frog

Rana clamitans

Carolina Anole

Anolis carolinensis

Eastern Fence Lizard

Sceloporus undulatus

Ringneck Snake

Diadophis punctatus

Turkey Vulture

Cathartes aura

Red-tailed Hawk

Buteo jamaicensis

Whip-poor-will

Caprimulgus vociferus

Great Crested Flycatcher

Myiarchus crinitus

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

White-breasted Nuthatch

Sitta carolinensis

Carolina Wren

Thryothorus ludovicianus

Blue-gray Gnatcatcher

Poliophtila caerulea

Solitary Vireo

Vireo solitarius

Yellow-throated Warbler

Dendroica dominica

Hooded Warbler

Wilsonia citrina

Northern Cardinal

Cardinalis cardinalis

Gray Squirrel

Sciurus carolinensis

Beaver (gnaw marks)

Castor canadensis

Hispid Cotton Rat

Sigmodon hispidusMaidenhair fern, *Adiantum pedatum*.

(Photo by L. Smith)

Table Rock State Park **Pickens County** **September 29, 1991**

Table Rock is a flat rock-capped mountain that lends its name to the state park that includes the mountain and the area at its base. In the lower elevations is the Carrick Creek Nature Trail which follows the creek for a large portion of its almost two-mile length. The creek is one that flows picturesquely over ledges and boulders, and has several small falls and cascades. It provides stream edge and floodplain habitat for a large number of upper Piedmont and mountain species. The trail also crosses a ridge between two tributaries, offering species of drier habitats.

Directions to Table Rock State Park: From Greenville, take US 276 north through Travelers Rest and Marietta to Cleveland. Turn left on US 276/SC 11 and go 6 miles. Where US 276 forks right toward Caesars Head, take the left fork on SC 11, and continue 6.6 miles farther on SC 11. Table Rock State Park has two entrances, both on the right. The first entrance leads to the lodge; continuing on SC 11 across the lake, the second entrance leads to the campground, picnic ground, nature center, and trail heads.



FLORA

Rattlesnake Grape Fern
Botrychium virginianum
Cinnamon Fern
Osmunda cinnamomea
Maidenhair Fern
Adiantum pedatum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Broad Beech-Fern
Thelypteris hexagonoptera
White Pine
Pinus strobus
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Hemlock
Tsuga canadensis
Cane; Switch Cane
Arundinaria gigantea
Spike Grass
Urolophora sessiliflora
Jack-in-the-pulpit
Arisaema triphyllum
Greenbrier
Smilax coccinea biltmoreana
Sambrier; Greenbrier
Smilax glauca
Indian Cucumber-root
Medeola virginiana
Salomon's-seal
Polygonatum biflorum

Blazing-star
Chamaelirium luteum
Bellwort
Uvularia perfoliata
Wild Yam
Dioscorea villosa
Yellow Star-grass
Hypoxis hirsuta
Yellow Star-grass
Hypoxis rigida
Crested Iris
Iris cristata
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Autumn Coral-root
Corallorhiza odororhiza
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
Beech
Fagus grandifolia
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Red Oak
Quercus rubra
Buffalo-nut
Pyrularia pubera
Wild Ginger
Asarum canadense

Heartleaf
Hexastylis sp.
Yellowroot
Xanthorhiza simplicissima
Meadow-rue
Thalictrum sp.
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Cucumber-tree
Magnolia acuminata
Sweet-shrub; Carolina-allspice
Calyculatus floridus
Bloodroot
Sanguinaria canadensis
Climbing-hydrangea
Decumaria barbara
Wild Hydrangea
Hydrangea arborescens
Hydrangea arborescens radiata
Witch-hazel
Hamamelis virginiana
Cocklebur
Agrimonia sp.
Downy Serviceberry
Amelanchier arborea arborea
Sensitive-brier
Schrankia microphylla
Naked-flower Tick-trefoil
Desmodium nudiflorum
Black Locust
Robinia pseudo-acacia
Hog-peanut
Amphicarpa bracteata

Wood-sorrel
Oxalis grandis
Flowering Spurge
Euphorbia corollata
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Eucalyptus americanus
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
St.-Andrew's-cross
Hypericum stragulum
Violet
Viola tripartita tripartita
Yellow Passionflower
Passiflora lutea
Common Evening-primrose
Oenothera biennis
Sanicle; Snakeroot
Sanicula canadensis
Cow-bane
Oxypholis rigidior
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida

Table Rock State Park (continued)
September 29, 1991

Spotted Wintergreen <i>Chimaphila maculata</i>	Silverbell <i>Halesia</i> sp.
Indian-pipe <i>Monotropa uniflora</i>	White Ash; American Ash <i>Fraxinus americana americana</i>
Pine-sap <i>Monotropa hypopitys</i>	Lop-seed <i>Phryma leptostachya</i>
Rosebay; Great Laurel <i>Rhododendron maximum</i>	Carpenterweed <i>Prunella vulgaris</i>
Mountain-laurel <i>Kalmia latifolia</i>	Horse-balm <i>Collinsonia canadensis</i>
Dog-hobble <i>Leucothoe axillaris</i>	Collinsonia tuberosa
Sourwood <i>Oxydendrum arboreum</i>	False Foxglove <i>Aureolaria pedicularia</i>
Trailing-arbutus <i>Epigaea repens</i>	Aureolaria sp.
Deerberry; Squaw-huckleberry <i>Vaccinium stamineum</i>	Cross Vine <i>Anisostichus capreolata</i>
Elliott's Blueberry <i>Vaccinium elliotii</i>	Squaw-root <i>Conopholis americana</i>
Galax; Galaxy; Coltsfoot <i>Galax aphylla</i>	Partridge-berry <i>Mitchella repens</i>
Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	Maple-leaf Viburnum <i>Viburnum acerifolium</i>
	Lobelia <i>Lobelia puberula</i>

Prenanthes <i>Prenanthes</i> sp.	Red Velvet Mite <i>Trombidium</i> sp.
Common Dandelion <i>Taraxacum officinale</i>	Round-winged Katydid <i>Amblycorypha oblongifolia</i>
Elephant's-foot <i>Elephantopus tomentosus</i>	True Katydid <i>Pterophylla camellifolia</i>
White Snakeroot <i>Eupatorium rugosum</i>	Water-strider <i>Gerris</i> sp.
Robin's-plantain <i>Erigeron pulchellus</i>	Yellowjacket <i>Vespula</i> sp.
Aster <i>Aster curtisii</i>	Cloudless Sulphur <i>Phoebis sennae cubule</i>
Aster dumosus	Red-spotted Purple (butterfly) <i>Limenitis arthemis astyanax</i>
Gray Goldenrod <i>Solidago nemoralis</i>	Eastern Newt <i>Notophthalmus viridescens</i>
Bearsfoot <i>Polymnia uvularia</i>	Turkey Vulture <i>Cathartes aura</i>
Coreopsis <i>Coreopsis major</i>	Blue Jay <i>Cyanocitta cristata</i>
FAUNA	American Crow <i>Corvus brachyrhynchos</i>
White Micrathena (spider) <i>Micrathena mitrata</i>	Tufted Titmouse <i>Parus bicolor</i>
Orchard Spider <i>Leucauge venusta</i>	Red-Eyed Vireo <i>Vireo olivaceus</i>



Richland County

Congaree Swamp National Monument

Richland County

May 23, 1987, and May 16, 1992

Congaree Swamp, a classic river floodplain swamp, is a site of always superlative sightings. On these two visits, the highlights were mushrooms on the 1987 trip and snakes on the 1992 trip. Trees, even after Hurricane Hugo tried to flatten the area, are the dominating first impression. Several state and national record trees are found within the monument. If you are there on a hot summer day, insects are often the next group to get your attention. Soon the birds make their presence known, as they forage in the trees or shrubs. The swamp is also renowned for the number of species and total numbers of reptiles and amphibians, and it would be a rare visit that didn't offer sightings of at least one large snake. The monument has a series of boardwalks that offer dry pathways (unless they are underwater from a current river flood) to all the major types of habitats. Also, an extensive trail system provides access to more remote areas, as does a canoe trail. Trail maps are available at the visitor's center.

Directions to Congaree Swamp National Monument: From the I-77 Bypass southeast of Columbia, take Exit 5 (Bluff Road, SC 48) and head east toward Gadsden and the Congaree Swamp National Monument. Drive 7.1 miles and note the intersection with Lower Richland Boulevard; continue on SC 48 for 0.6 mile farther. Where the road bends to the left, take the obscure right fork onto County Road 734, Old Bluff Road. Drive about 4.5 miles to the sign for the entrance to Congaree Swamp; turn right into the entrance road and go about a mile to the parking lot.



FLORA

Lichen

Collema nigrescens
Collema subflaccidum
Leptogium cyanescens
Graphis scripta
Graphis leucopepla
Graphis sp.
Gyrostomum sp.
Coenogonium interplexum
Bacidia rosella
Bacidia polychroa
Bacidia schweinitzii
Bacidia laurocerasi
Bacidia fuscus sp. nov.
Leptogium austroamericanum
Lecidea carneolabens
Lecidea ruscata
Cladonia coniocraea f. *phyllostrota*
Cladonia coniocraea f. *subpelliculata*
Cladonia coniocraea f. *ceratodes*
Cladonia coniocraea f. *pycnotheliza*
Pycnothelia sp.
Peristaria leucostoma
Peristaria oxilolata
Peristaria multipunctatoides
Peristaria sp.
Haematomma puniceum
Lecanora cupressi
Lecanora pallida
Lecanora pallida cancriformis
Lecanora pallida f. *prolifera*
Lecanora horiza
Ochrolechia africana
Bulbothrix goebelii
Hypotrachyna livida f. *aurea*

Parmelia rudecta
Parmotrema dilatatum
Parmotrema hypotropum
Parmotrema mellissii
Parmotrema michauxianum
Parmotrema rampodense
Parmotrema reticulatum
Parmotrema subisidiosum
Pseudoparmelia caroliniana
Usnea rubicunda
Buellia dialytia
Physcia americana
Heterodermia obscurata
Heterodermia grueni
Heterodermia sp.
Pyxine caesiopruinosa
Phaeophyscia rubropulchra
Physconia enteroxantha
Pyrenula cruenta
Pyrenula sp.
Arthonia sp.
Trypethelium mastoideum
Trypethelium vires
Trypethelium floridanum
Trypethelium sp.
Opoglyphis bonplandi
Meadow Spikemoss
Selaginella apoda
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Log Fern
Dryopteris celsa

Thelypteris (fern)
Thelypteris kunthii
Sensitive Fern
Onoclea sensibilis
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum
Arrowhead; Duck-potato
Sagittaria latifolia
Cane; Switch Cane
Arundinaria gigantea
River Oats
Uniola latifolia
Microstegium (grass)
Microstegium vimineum
Sedge
Carex sp.
Dwarf Palmetto
Sabal minor
Arrowleaf Arum
Peltandra virginica
Green-dragon
Arisaema dracontium
Jack-in-the-pulpit
Arisaema triphyllum
Spanish-moss
Tillandsia usneoides
Wild Yam
Dioscorea villosa
Yellow Star-grass
Ypoxis hirsuta
Blue-eyed-grass
Sisyrinchium albidum
Sisyrinchium sp.
Lizard's-tail
Saururus cernuus
Eastern Cottonwood
Populus deltoides
Swamp Cottonwood
Populus heterophylla
Water Hickory
Carya aquatica
Shagbark Hickory
Carya ovata
Mockernut Hickory
Carya tomentosa
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
White Oak
Quercus alba
Overcup Oak
Quercus lyrata
Swamp Chestnut Oak
Quercus michauxii
Cherrybark Oak
Quercus falcata pagodaefolia
Water Oak
Quercus nigra

Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
American Elm
Ulmus americana
Winged Elm
Ulmus alata
Sugarberry; Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
Wood-nettle
Laportea canadensis
False Nettle
Boehmeria cylindrica
Pokeweed; Pokeberry
Physalis americana
Leather-flower
Clematis crispa
Tulip-poplar
Liriodendron tulipifera
Sweetbay
Magnolia virginiana
PawPaw
Asimina triloba
Redbay
Persea borbonica
Sassafras
Sassafras albidum
Virginia-willow
Itea virginica
Climbing-hydrangea
Decumaria barbara
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Indian Strawberry
Duchesnea indica
Blackberry; Brambles
Rubus sp.
Swamp Haw
Crataegus viridis
Parsley-leaved Hawthorn
Crataegus marshallii
Hawthorn
Crataegus sp.
Black Cherry; Wild Cherry
Prunus serotina
Wood-sorrel
Oxalis sp.
Chinaberry
Melia azedarach
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Possumhaw Holly
Ilex decidua
Hearts-a-burstin'-with-love
Eonymus americanus
Boxelder
Acer negundo

Congaree Swamp National Monument (continued)
May 23, 1987, and May 16, 1992

Red Maple
Acer rubrum
Supple-jack; Rattan-vine
Berchemia scandens
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Summer Grape
Vitis aestivalis
Grape
Vitis sp.
Pepper-vine
Ampelopsis arborea
Yellow Passionflower
Passiflora lutea
Devil's-walking-stick
Aralia spinosa
Honewort
Cryptantha canadensis
Blackgum
Nyssa sylvatica
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Water Tupelo
Nyssa aquatica
Flowering Dogwood
Cornus florida
Swamp Dogwood; Stiff Cornel
Cornus stricta
Sweet Pepperbush
Clethra alnifolia
Spotted Wintergreen
Chimaphila maculata
Dog-hobble
Leucothoe axillaris axillaris
Dangleberry
Gaylussacia frondosa
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Elliott's Blueberry
Vaccinium elliotii
Water Pimpernel
Samolus parviflorus
Water Ash; Carolina Ash
Fraxinus caroliniana
American Ash; White Ash
Fraxinus americana
Green Ash; Red Ash
Fraxinus pennsylvanica
subintegerrima
Swamp Privet
Forestiera acuminata
Privet; Ligustrum
Ligustrum sp.
Indian-pink
Spigelia marilandica
Angle-pod
Matelea sp.
Beautyberry
Callicarpa americana

Mazus
Mazus sp.
Cross Vine
Anisostichus capreolata
Trumpet-berry
Campsis radicans
Justicia
Justicia americana
Water-willow
Justicia ovata
Partridge-berry
Mitchella repens
Bluets
Houstonia purpurea
Bedstraw
Galium sp.
Japanese Honeysuckle
Lonicera japonica
Arrowwood
Viburnum dentatum
American Elderberry
Sambucus canadensis
Butterweed
Senecio glabellus
Climbing Hempweed
Mikania scandens
Spilanthes
Spilanthes americana repens
Ribbed-stalked Cup
Helvella acetabulum
Tree-ear
Auricularia auricula
Pale Jelly-roll
Exidia alba
Yellow-tipped Coral
Ramaria formosa
Tinder Polypore
Fomes fomentarius
Larch Polypore
Fomitopsis officinalis
Artist's Conk
Cantharellus applanatus
Turkey-tail
Trametes versicolor
Common Split-gill
Schizophyllum commune
Meadow Mushroom
Agaricus campestris
Destroying-angel
Amanita virosa
Purple-bloom Russula
Russula mariae
Pinwheel Marasmius
Marasmius rotula
Orange Pinwheel Marasmius
Marasmius sicus
Orange Mycena
Mycena leaiana
Lilac-spored Mushroom
Pleurotus sapidaus

FAUNA

Orchard Spider
Leucauge venusta
Carolina Wolf Spider
Lycosa carolinensis
Wolf Spider
Lycosa sp.
Jumping Spider (large)
Phidippus pulcher
Ant
Crematogaster ashmeadi
Black Carpenter Ant
Camponotus pennsylvanicus
Phantom Crane fly
Bittacomorpha clavipes
Bumblebee Hover-fly
Vulocella sp.
Swamp Darner
Epiplatys heros
Lancet Clubtail (dragonfly)
Gomphus exilis
Royal River Cruiser
Macromia taeniolata
Great Blue Skimmer
Libellula vibrans
Ebony Jewelwing
Calopteryx maculata
Green Tiger Beetle
Cicindela sexguttata
Pedunculate Ground Beetle
Scarites subterraneus
Woodland Ground Beetle
Agonum sp.
Colorful Foliage Ground Beetle
Lebia lobulata
Lebia ornata
Whirligig Beetle
Dineutus serrulatus serrulatus
Gyrinus analis
Carion Beetle (larva)
Silpha xurinensis
Passalus; Bess-beetle
Popillius disparis
Eyed Elater
Alaus oculatus
Blind Elater
Alaus myops
Firefly; Lightning Beetle
Ellychnia sp.
Darkling Beetle
Alopius pennsylvanica
Lady Beetle
Coleomegilla fuscilabris
Flower Longhorn Beetle
Typocerus sp.
Current Tip Borer; Longhorn
Cyrtinus pygmaeus
Cylindrical Leaf Beetle
Bassareus sp.
Oval Leaf Beetle
Paria canella aterrimus
Flea Beetle
Disonychia sp.
Eggplant Flea Beetle
Epithrix fuscula

Ambrosia Beetle
Xylorhynchus inermis
Zebra Swallowtail
Eurytides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Cloudless Sulphur
Phoebastria sennae eubule
Eastern Tailed-blue(butterfly)
Everes comyntas
Spring Azure (butterfly)
Lycaenopsis argiolus
American Snout (butterfly)
Libytheana carinenta
Question Mark (butterfly)
Polygonia interrogationis
Mourning Cloak
Nymphalis antiopa
American Lady (butterfly)
Vanessa virginianensis
Red Admiral
Vanessa atalanta rubria
Common Buckeye (butterfly)
Junonia coenia
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Hackberry Emperor (butterfly)
Asterocampa celis
Tawny Emperor (butterfly)
Asterocampa clyton
Carolina Satyr (butterfly)
Hermempygia zoxys
Monarch (butterfly)
Danaus plexippus
Evergreen Bagworm Moth
Thyridopteryx ephemeraeformis
Forest Tent Caterpillar
Malacosoma disstria
Io Moth
Automeris io
Longnose Gar (fish)
Lepisosteus osseus
Marbled Salamander
Ambystoma opacum
Cope's Gray Treefrog
Hyla chrysocelis
Gray Treefrog
Hyla versicolor
Pickerel Frog
Rana palustris
Southern Leopard Frog
Rana sphenoccephala
Snapping Turtle
Chelydra serpentina
Yellow-bellied Slider
Chrysemys scripta
Carolina Anole
Anolis carolinensis
Five-lined Skink
Eumeces fasciatus
Broadhead Skink
Eumeces laticeps
Ringneck Snake
Diadophis punctatus
Rat Snake
Elaphe obsoleta

Eastern Kingsnake <i>Lampropeltis getulus</i>	Ruby-throated Hummingbird <i>Archilochus colubris</i>	Tufted Titmouse <i>Parus bicolor</i>	Canada Warbler <i>Wilsonia canadensis</i>
Redbelly Water Snake <i>Nerodia erythrogaster</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>	Carolina Chickadee <i>Parus carolinensis</i>	Hooded Warbler <i>Wilsonia citrina</i>
Banded Water Snake <i>Nerodia fasciata</i>	Red-headed Woodpecker <i>Melanerpes erythrocephalus</i>	White-breasted Nuthatch <i>Sitta carolinensis</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Rough Green Snake <i>Ophedrys aestivus</i>	Downy Woodpecker <i>Picoides pubescens</i>	Carolina Wren <i>Thryothorus ludovicianus</i>	Rufous-sided Towhee <i>Pipilo erythrophthalmus</i>
Double-crested Cormorant <i>Phalacrocorax auritus</i>	Yellow-bellied Sapsucker (tracks) (sign) <i>Sphyrapicus varius</i>	Blue-gray Gnatcatcher <i>Polioptila caerulea</i>	Common Grackle <i>Quiscalus quiscula</i>
Great Blue Heron <i>Ardea herodias</i>	Pileated Woodpecker <i>Dryocopus pileatus</i>	Wood Thrush <i>Hylocichla mustelina</i>	Summer Tanager <i>Piranga rubra</i>
Black Vulture <i>Coragyps atratus</i>	Great Crested Flycatcher <i>Myiarchus cinerascens</i>	White-eyed Vireo <i>Vireo griseus</i>	Eastern Cottontail <i>Sylvilagus floridanus</i>
Red-shouldered Hawk <i>Buteo lineatus</i>	Eastern Wood-pewee <i>Contopus virens</i>	Red-eyed Vireo <i>Vireo olivaceus</i>	Gray Squirrel <i>Sciurus carolinensis</i>
Mourning Dove <i>Zenaidura macroura</i>	Acadian Flycatcher <i>Empidonax virens</i>	Prothonotary Warbler <i>Protonotaria citrea</i>	River Otter (tracks) <i>Lutra canadensis</i>
Yellow-billed Cuckoo <i>Coccyzus americanus</i>	Blue Jay <i>Cyanocitta cristata</i>	Northern Parula <i>Parula americana</i>	Wild Pig (tracks) (bones) <i>Sus scrofa</i>
Barred Owl <i>Strix varia</i>	American Crow <i>Corvus brachyrhynchos</i>	Yellow-throated Warbler <i>Dendroica dominica</i>	White-tailed Deer (bones) <i>Odocoileus virginianus</i>
Chimney Swift <i>Chaetura pelagica</i>		Pine Warbler <i>Dendroica pinus</i>	

Cooks Mountain Richland County March 18, 1989

Cooks Mountain, a monadnock that sits high above the right bank of the Wateree River, is owned and protected by Yancey McLeod, who has developed the property to enhance the local wildlife population. Mr. McLeod, a conservation proponent, was happy to share how he had developed the land, sited his house on the top overlooking the river, and carefully tried to keep the various species in balance. The habitats vary from near-montane to river floodplain, ponds, wooded areas, and open fields. The flora/fauna list shows the wide diversity of plants and corresponding animals found in the relatively small area. SCAN was very appreciative of Mr. McLeod sharing his fascinating property with us.

Private property. Accessible by permission only. No map provided.

FLORA	Eel-grass <i>Zostera marina</i>	White Oak <i>Quercus alba</i>	Sassafras <i>Sassafras albidum</i>
Lichen	Cane; Switch Cane <i>Arundinaria gigantea</i>	Post Oak <i>Quercus stellata</i>	Sweet-gum <i>Liquidambar styraciflua</i>
Bracken <i>Pteridium aquilinum</i>	Broomsedge <i>Andropogon sp.</i>	Turkey Oak <i>Quercus laevis</i>	American Sycamore <i>Platanus occidentalis</i>
Christmas Fern <i>Polystichum acrostichoides</i>	Spanish-moss <i>Tillandsia usneoides</i>	Black Oak <i>Quercus velutina</i>	Indian Strawberry <i>Duchesnea indica</i>
Resurrection Fern <i>Polypodium polypodioides</i>	Fringed Greenbrier <i>Smilax bona-nox</i>	Black Jack Oak <i>Quercus marilandica</i>	Southern Crabapple <i>Malus angustifolia</i>
Long-leaf Pine <i>Pinus palustris</i>	Bamboo Smilax <i>Smilax laurifolia</i>	Water Oak <i>Quercus nigra</i>	Hawthorn <i>Crataegus sp.</i>
Loblolly Pine <i>Pinus taeda</i>	Bear-grass <i>Yucca filamentosa</i>	Mistletoe <i>Phoradendron serotinum</i>	Downy Serviceberry <i>Amelanchier arborea</i>
Short-leaf Pine <i>Pinus echinata</i>	Wax-myrtle; Southern Bayberry <i>Myrica cerifera</i>	Heartleaf <i>Hexastylis arifolia</i>	Chickasaw Plum <i>Prunus angustifolia</i>
Virginia Pine; Scrub Pine <i>Pinus virginiana</i>	Mockernut Hickory <i>Carya tomentosa</i>	Sweetbay <i>Magnolia virginiana</i>	Winged Sumac <i>Rhus copallina</i>
Bald-cypress <i>Taxodium distichum</i>	Beech <i>Fagus grandifolia</i>	Redbay <i>Persea borbonia</i>	American Holly <i>Ilex opaca</i>

Cooks Mountain (continued)

March 18, 1989

Water-milfoil	Partridge-berry
<i>Myriophyllum brasiliense</i>	<i>Hebe repens</i>
Pennywort	Blues
<i>Hydrocotyle verticillata</i>	<i>Houstonia caerulea</i>
Water Tupelo	Small Blues
<i>Nyssa aquatica</i>	<i>Houstonia missillia</i>
Flowering Dogwood	Japanese Honeysuckle
<i>Cornus florida</i>	<i>Lonicera japonica</i>
Spotted Wintergreen	Coral Honeysuckle
<i>Chimaphila maculata</i>	<i>Lonicera sempervirens</i>
Mountain-laurel	Hawkeed
<i>Kalmia latifolia</i>	<i>Hieracium</i> sp.
Sourwood	Dwarf Dandelion
<i>Oxydendrum arboreum</i>	<i>Krigia virginica</i>
Trailing-arbutus	Pussy-toes
<i>Epigaea repens</i>	<i>Antennaria plantaginifolia</i>
Sparkleberry	Multicolor Gill Polyopore
<i>Vaccinium arboreum</i>	<i>Lenzites betulinae</i>
Horse-sugar; Sweetleaf	Turkey-tail
<i>Symplocos tinctoria</i>	<i>Trametes versicolor</i>
Yellow Jessamine	Earhartar Scleroderma
<i>Gelsemium sempervirens</i>	<i>Scleroderma geaster</i>
Woolly Mullein	FAUNA
<i>Verbascum thapsus</i>	
Cross Vine	Oak-apple (gall wasp)
<i>Anisotrichus caprolata</i>	<i>Amphibolips inanis</i>
Beech-drops	Baskettail Dragonfly
<i>Epigaea virginiana</i>	<i>Ephedra</i> sp.

Green Tiger Beetle	Falcate Orangetip
<i>Cicindela sexguttata</i>	<i>Anthocharis mildea</i>
Dingy Ground Beetle	Angleming (butterfly)
<i>Anisodactylus rusticus</i>	<i>Polyommata</i> sp.
Predacious Diving Beetle	Mourning Cloak
<i>Laccophilus fasciatus</i>	<i>Nymphalis antiopa</i>
<i>Thermonectus basilaris</i>	Common Buckeye (butterfly)
Water Scavenger Beetle	<i>Junonia coenia</i>
<i>Enochrus cornutus</i>	Polyphemus Moth (cocoon)
Rove Beetle	<i>Antheraea polyphemus</i>
<i>Oxyopoda</i> sp.	Fall Webworm Moth (nest)
Shining Fungus Beetle	<i>Hyphantria cunea</i>
<i>Scaphisoma convexa</i>	Common Oak Moth
Passalus; Bess-beetle	<i>Phoberia atomaria</i>
<i>Popillia dimictus</i>	Killdeer
Dung Beetle	<i>Charadrius vociferans</i>
<i>Onthophagus tuberculifrons</i>	Turkey Vulture
Large Flat-headed Pine Borer	<i>Cathartes aura</i>
<i>Chalcophora virginianensis</i>	Belted Kingfisher
Darkling Beetle	<i>Ceryle alcyon</i>
<i>Platydema erythrocerum</i>	Tufted Titmouse
Lady Beetle	<i>Parus bicolor</i>
<i>Hyperaspis</i> sp.	Golden-crowned Kinglet
Leaf Beetle	<i>Regulus satrapa</i>
<i>Oedionychis concinna</i>	Eastern Bluebird
Zebra Swallowtail	<i>Sialia sialis</i>
<i>Eurytides marcellus</i>	Northern Parula
Eastern Tiger Swallowtail	<i>Parula americana</i>
<i>Papilio glaucus</i>	Pine Warbler
Palamedes Swallowtail	<i>Dendroica pinus</i>
<i>Papilio palamedes</i>	White-tailed Deer (tracks)
	<i>Odocoileus virginianus</i>

Pete's Place

Richland County

April 27, 1991

Pete's Place, a private residence in northern Richland County, lies along Cedar Creek, which has eroded a lovely shallow rocky valley in the Piedmont, just above the Fall Line. The combination of rocky outcrops and hillside adjacent to the creek's floodplain gave a wide diversity of plant material. Lush jack-in-the-pulpits graced the floodplain while a rock outcrop along the edge of an old roadbed hosted a rare native climbing fern. Box turtles, including one very tiny specimen, greeted us in each area of the property. We appreciate the Baileys' hosting us on this trip. It is nice to see such naturally rich areas still protected by local land owners.

Private property. Accessible by permission only. No map provided.

FLORA	Loblolly Pine	Jack-in-the-pulpit	Mockernut Hickory
	<i>Pinus taeda</i>	<i>Arisaema triphyllum</i>	<i>Carya tomentosa</i>
Rattlesnake Grape Fern	Eastern Red-cedar	Woodrush	River Birch
<i>Botrychium virginianum</i>	<i>Juniperus virginiana</i>	<i>Luzula</i> sp.	<i>Betula nigra</i>
American Climbing Fern	Cane; Switch Cane	False Garlic	Hop-hornbeam
<i>Lygodium palmatum</i>	<i>Arundinaria gigantea</i>	<i>Allium bivalve</i>	<i>Ostrya virginiana</i>
Bracken	Melic Grass	Yellow Star-grass	American Hornbeam; Ironwood
<i>Pteridium aquilinum</i>	<i>Melica nutica</i>	<i>Hyperoxis hirsuta</i>	<i>Carpinus caroliniana</i>
Christmas Fern	Hair Grass	Blue-eyed-grass	White Oak
<i>Polystichum acrostichoides</i>	<i>Altru elegans</i>	<i>Syrinchium</i> sp.	<i>Quercus alba</i>
Ebony Spleenwort	Microstegium (grass)	Crane-fly Orchid	Post Oak
<i>Asplenium platyneuron</i>	<i>Microstegium vimineum</i>	<i>Tipularia discolor</i>	<i>Quercus stellata</i>
Resurrection Fern	Green-dragon	Eastern Cottonwood	Red Oak
<i>Polypodium polypodioides</i>	<i>Arisaema dracontium</i>	<i>Populus deltoides</i>	<i>Quercus rubra</i>

Scarlet Oak
Quercus coccinea
Spanish Oak
Quercus falcata
Black Jack Oak
Quercus marilandica
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Winged Elm
Ulmus alata
Red Mulberry
Morus rubra
Virginia Snakeroot
Aristolochia serpentaria
Heartleaf
Hexastylis arifolia
Pokeweed; Pokeberry
Physalis americana
Buttercup
Ranunculus sardous
Tulip-poplar
Liriodendron tulipifera
PawPaw
Asimina triloba
Wild Radish
Raphanus raphanistrum
Bitter Cress
Cardamine pensylvanica
Alumroot
Heuchera americana
Foamflower
Tiarella cordifolia collina
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Five-fingers
Potentilla canadensis
Downy Serviceberry
Amelanchier arborea
Carolina Cherrylaurel
Prunus caroliniana
Redbud; Judas-tree
Cercis canadensis
Violet Wood-sorrel
Oxalis violacea
Wild Geranium
Geranium maculatum
Poison-Ivy
Rhus radicans
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Eurostium americanus
Boxelder
Acer negundo
Red Maple
Acer rubrum
Chalk Maple
Acer saccharum leucoderme
Boxkey
Aesculus sp.

Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Basswood; Linden
Tilia heterophylla
Sweet Chervil
Osmorhiza longistylis
Wild Chervil
Chaerophyllum tainturieri
Golden-Alexander
Zizia aurea
Meadow Parsnip
Thaspium trifoliatum flavum
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Mountain-laurel
Kalmia latifolia
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Elliott's Blueberry
Vaccinium ellipticum
Blueberry
Vaccinium sp.
Persimmon
Diospyros virginiana
Bigleaf Snowbell
Syrinx grandifolia
Ash
Fraxinus sp.

Fringe-tree
Chionanthus virginicus
Beautyberry
Callicarpa americana
Lyre-leaved Sage
Salvia lyrata
Toadflax
Linaria canadensis
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Partridge-berry
Mitchella repens
Bluets
Houstonia caerulea
Bluets
Houstonia purpurea
Venus'-looking-glass
Specularia perfoliata
Rattlesnake-weed
Hieracium venosum
Dwarf Dandelion
Krigia dandelion
Pale Indian-plantain
Cacalia atriplicifolia
Small's Ragwort
Senecio smallii
Leopard's-bane
Arnica montana
Thistle
Carduus lanceolatus
Green-and-gold
Chrysogonum virginianum
Dwarf-eared Coreopsis
Coreopsis auriculata

FAUNA
Bowl-and-dolly Spider
Frontinella sp.
Field Cricket
Gryllus sp.
Spittlebug
Prosapia sp.
Fire Ant
Solenopsis sp.
Ebony Jewelwing
Calopteryx maculata
Twenty-spotted Lady Beetle
Psylliobora vigintipunctata
Carolina Satyr (butterfly)
Hermesipychia soybus
Eastern Tent Caterpillar
Malacosoma americanum
Luna Moth
Actias luna
Southern Toad
Bufo terrestris
Cope's Gray Treefrog
Hyla chrysoscelis
Eastern Box Turtle
Terrapene carolina
Carolina Anole
Anolis carolinensis
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
Wild Turkey (egg)
Meleagris gallopavo
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Summer Tanager
Piranga rubra
White-tailed Deer (tracks)
Odocoileus virginianus



Foamflower, *Tiarella cordifolia collina*.

(Photo by L. Smith)



Blue-eyed-grass, *Sisyrinchium sp.*

(Photo by N. Woot)



Spartanburg County

Croft State Park Spartanburg County

June 24, 1989, October 23, 1993 and October 28, 1995

Croft State Park, one of the largest state parks in South Carolina, exemplifies a recovering Piedmont forest area. Approximately 95 per cent of the land in the Piedmont of South Carolina has been cleared and farmed. Erosion quickly took its toll, and the land was abandoned. Much of this park is only about sixty years into field to forest succession. The now rough terrain tells a silent tale of deep gullies from erosion. The small areas of older growth, areas along the edges of lakes and creeks, and especially along Fairforest Creek have developed a very interesting collection of plants and animals. Hardwood forests along the creek floodplains are especially attractive and interesting. On the first visit SCAN was accompanied by Dr. Robert Powell of Converse College, Dr. Gibbs Patton, retired from Wofford College, and Dick Coyle of the state park staff. They were able to explain much of the cultural history that goes along with the natural history of Croft, as it served as Camp Croft during World War II. It has only been in recent years that a thorough check of the park was made to remove practice munitions still in the soil. Their explanations and identifications greatly enhanced our visits.



Directions to Croft State Park: From I-26 south of Spartanburg, take Exit 28 and go north on US 221 toward Spartanburg for 2 miles. Turn right onto SC 215 (south toward Union) and drive 5.5 miles. Turn left (north toward Spartanburg) and travel 3.7 miles. The main entrance to Croft State Park is on the right marked with a brown sign. To reach the Lake Johnson section of the state park, follow the main entrance road (Dairy Ridge Road) until it meets SC 295. Turn right (south) and go 1.6 miles. Turn right just past Whitestone Mall (small white building) onto Johnson Lake Road; drive to the end of the road.

FLORA

Lichen

Collema subflaccidum
Leptogium chloromelum
Leptogium cyanescens
Graphis scripta
Glyptis sp.
Phaeographis dendritica
Bacidia schweinitzii
Bacidia sp.
Leptogium austroamericanum
Lecidea tessellata
Cladonia subtenens subtenens
Cladonia subtenens cinerascens
Cladonia bacillaris

Cladonia chloropora f.
intermedia
Cladonia coniocraea f.
subpelliculata
Cladonia cristatella cristatella
Cladonia cristatella vestita
Cladonia polycarpoides
Cladonia peziziformis
Cladonia peziziformis
stenophyllodes
Cladonia ramulosa
Pertusaria paratuberculifera
Pertusaria peltiana
Pertusaria subperpusa
Pertusaria texana
Haematomma elatium

Haematomma cismonicum
Lecanora cupressi
Lecanora pallida
Lecanora pallida cancriformis
Lecanora varia
Lecanora subimmersens
Ochrolechia africana
Hypotrachyna livida
Parmelia obsexa
Parmotrema crinitum
Parmotrema hypolepium
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampoldense
Flavoparmelia caperata
Canoparmelia caroliniana

Punctelia rufecta
Rimelia reticulata
Rimelia subisidiosa
Ramalina americana
Usoea strigosa
Usoea sp.
Buellia punctata
Buellia curatellae
Dirinaria picta
Physcia alpicola
Physcia americana
Physcia millegrana
Physcia pseudospectiosa
Physcia stellaris
Heterodermia obscurata
Heterodermia speciosa

Heterodermia spaltans
Pyxine caesiopruinosa
Pyxine sorediata
Phaeoplyscia adlastola
Phaeoplyscia imbricata
Phaeoplyscia rubropulchra
Phaeoplyscia rubropulchra minor
Physcia claustra
Trypetium mastoideum
Trypetium virens
Running-pine
Lycopodium flabelliforme
Rattlesnake Grape Fern
Botrychium virginianum
Southern Grape Fern
Botrychium biternatum
Grape Fern; Moonwort
Botrychium sp.
Southern Lady Fern
Asplenium asplenoides
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
White Pine
Pinus strobus
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Red-cedar
Juniperus virginiana
Pondweed
Potamogeton diversifolius
Southern Nalad
Najas guadalupensis
Slender Nalad
Najas minor
Cane; Switch Cane
Arundinaria gigantea
Spike Grass
Urolophora sessiliflora
River Oats
Urolophora latifolia
Love Grass
Eragrostis hirsuta
Drosped
Sporobolus sp.
Foxtail Grass
Setaria sp.
Barnyard Grass
Echinochloa crusgalli
Panic Grass
Panicum boreale
Microstegium (grass)
Microstegium vimineum
Beard Grass
Eriophorum sp.
Broomsedge
Andropogon virginicus
Johnson Grass
Sorghum halepense

Indian Grass
Sorghastrum ellipticum
Beak-rush
Rhynchospora corniculata
Jack-in-the-pulpit
Arisaema triphyllum
Soft Rush
Juncus effusus
Greenbrier; Bullbrier
Smilax rotundifolia
Fringed Greenbrier
Smilax bona-nox
Bamboo Smilax
Smilax laurifolia
Field Garlic
Allium vineale
Crested Iris
Iris cristata
Lesser Ladies'-tresses
Spiranthes ovalis
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Black Willow
Salix nigra
Eastern Cottonwood
Populus deltoides
Black Walnut
Juglans nigra
Mockernut Hickory
Carya tomentosa
Tag Alder
Alnus serrulata
River Birch
Betula nigra
Hop-hornbeam
Ostrya virginiana
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
American Chestnut
Castanea dentata
White Oak
Quercus alba
Post Oak
Quercus stellata
Swamp Chestnut Oak
Quercus michauxii
Red Oak
Quercus rubra
Black Oak
Quercus velutina
Scarlet Oak
Quercus coccinea
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
Slippery Elm
Ulmus rubra

American Elm
Ulmus americana
Winged Elm
Ulmus alata
Hackberry; Sugarberry
Celtis sp.
Red Mulberry
Morus rubra
False Nettle
Boehmeria cylindrica
Virginia Snakeroot
Aristolochia serpentaria
Tearthumb
Polygonum sagittatum
Polygonum
Polygonum sp.
Black Cohosh
Cimicifuga racemosa
Liverleaf
Hepatica americana
Mayapple
Podophyllum peltatum
Coralbeads
Cocculus carolinus
Tulip-poplar
Liriodendron tulipifera
Cucumber-tree
Magnolia acuminata
Dwarf PawPaw
Asimina parviflora
PawPaw
Asimina triloba
Sassafras
Sassafras albidum
Bloodroot
Sanguinaria canadensis
Virginia-willow
Ita virginica
Climbing-hydrangea
Decumaria barbara
Sweet-gum
Liquidambar styraciflua
Witch-hazel
Hamamelis virginiana
American Sycamore
Platanus occidentalis
Cocklebur
Agrimon sp.
Hawthorn
Crataegus sp.
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Mimosas; Silk-tree
Albizia julibrissin
Redbud; Judas-tree
Cercis canadensis
Honey Locust
Gleditsia triacanthos
White Clover
Trifolium repens
Beggar-lice
Desmodium sp.
Hog-peanut
Amphicarpa bracteata

Common Wood-sorrel
Oxalis acetosella
Waver-ash; Hop-tree
Ptelea trifoliata
Three-seeded Mercury
Acalypha gracilis
Acalypha sp.
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
Smooth Sumac
Rhus glabra
American Holly
Ilex opaca
Possumhaw Holly
Ilex decidua
Possumhaw Holly
Ilex decidua longipes
Hearts-a-burstin'-with-love
Eustoma atrorubens
Eustoma americanum
Boxelder
Acer negundo
Red Maple
Acer rubrum
Buckthorn
Rhamnus caroliniana
Muscadine; Bullace
Vitis rotundifolia
Fox Grape
Vitis labrusca
Pepper-vine
Ampelopsis arborea
St.-Andrew's-cross
Hypericum hypericoides
Passionflower; Maypops
Passiflora incarnata
Yellow Passionflower
Passiflora lutea
Prickly-pear
Opuntia compressa
Thorny Elaeagnus
Elaeagnus pungens
Russian-olive
Elaeagnus umbellata
Water-primrose
Ludwigia arifolia
Seed-box
Ludwigia alternifolia
Ludwigia
Ludwigia sp.
Snakeroot
Sanicula sp.
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Pine-sap
Monotropa hypopitys
Azalea
Rhododendron sp.
Mountain-laurel
Kalmia latifolia

Croft State Park (continued)

June 24, 1989, October 23, 1993 and October 28, 1995

Dog-hobble

Leucothoe axillaris
Leucothoe axillaris editorum

Sourwood

Oxydendrum arboreum

Sparkleberry

Vaccinium arboreum

Deerberry; Squaw-huckleberry

Vaccinium stamineum

Highbush Blueberry

Vaccinium corymbosum

Persimmon

Diospyros virginiana

Carolina Silverbell

Halesia carolina

American Ash; White Ash

Fraxinus americana

Red Ash; Pumpkin Ash

Fraxinus tomentosa

Ash

Fraxinus sp.

Fringe-tree

Chionanthus virginicus

Chinese Privet

Ligustrum sinense

Yellow Jessamine

Gelsemium sempervirens

Climbing-milkweed

Mateia obliqua

Angle-pod

Mateia sp.

Wild Comfrey

Cynoglossum virginianum

Verbena

Verbena sp.

Beautyberry

Callicarpa americana

Blue-curly

Trichostema dichotomum

Skullcap

Scutellaria sp.

Mountain Mint

Pycnanthemum incanum

Horse-nettle

Solanum carolinense

Cross Vine

Anisostichus capreolata

Trumpet Vine

Campsis radicans

Beech-drops

Epifagus virginiana

Ruellia

Ruellia sp.

Plantain

Plantago sp.

Button-bush

Cephalanthus occidentalis

Poor-jo (or Po-jo)

Diodia teres

Partridge-berry

Mitchella repens

Japanese Honeysuckle

Lonicera japonica

Black-haw; Nanny-berry

Viburnum prunifolium

Lobelia

Lobelia puberula

Rattlesnake-weed

Hieracium venosum

Pyrrhopappus

Pyrrhopappus carolinianus

Pale Indian-plantain

Coccoloba atriplicifolia

Bull Thistle

Carduus pumilus

Ironweed

Vernonia sp.

Elephant's-foot

Elephantopus scariosus

Climbing Hempweed

Mikania scandens

Passy-toes

Antennaria sp.

Rabbit-tobacco

Gnaphalium obtusifolium

Daisy Fleabane

Erigeron philadelphicus

Frost Aster

Aster pilosus

Aster

Aster dumosus

Gray Goldenrod

Solidago nemoralis

Heterotheca

Heterotheca graminifolia

Eclipta

Eclipta alba

Verbena

Verbena sp.

Bitterweed

Helenium amarum

Hairy Rubber Cup

Galliera rufa

Brown-haired White Cup

Humaria hemisphaerica

Velvety Earth-tongue

Trichoglossum hirsutum

Purple Jelly-drops

Ascorogyne sarcoides

Yellow-green Hypomyces

Hypomyces luteovirens

Carbon-antlers

Xylaria hypoxylon

Orange Jelly

Dacrymyces palmatus

Jellied False-coral

Tricladodendron pallidum

Golden Chanterelle

Cantharellus cibarius

Cinnabar-red Chanterelle

Cantharellus cinnabarinus

Spindle-shaped Gold Coral

Clavulinopsis pulchra

White Worm Coral

Clavaria vermicularis

Crested Coral

Clavulina cristata

Clustered Coral

Ramaria botrytis

White Coral

Ramariopsis kunzei

Coral-pink Merulius

Merulius incarnatus

Bearded Tooth

Hericium erinaceus

Scaly Tooth

Hydnum imbricatum

Multicolor Gill Polypore

Lentites betulinae

Turkey-tail

Trametes versicolor

Common Split-gill

Schizophyllum commune

Crowded Parchment

Stereum complicatum

Silky Parchment

Stereum striatum

Yellow-patches

Amanita flavoconia

Yellow Blusher

Amanita flavorubescens

Gemmed Amanita

Amanita gemmata

Strangled Amanita

Amanita inaurata

Fly Agaric

Amanita muscaria

Salmon Unicorn Entoloma

Entoloma salmonae

Fading Scarlet Wax-cap

Hygrophorus miniatus

Indigo Milky

Lactarius indigo

Tacky Green Russula

Russula aeruginea

Emetic Russula

Russula emetica

Fragile Russula

Russula fragilis

Variable Russula

Russula variata

Fat-footed Clitocybe

Clitocybe clavipes

Mycena (mushroom)

Mycena inclinata

Mycena vulgaris

Mycena vulgaris

Gem-studded Puffball

Lycoperdon perlatum

Bird's-nest; Splash-cups

Cyathus sp.

Coral Slime

Ceratomyxa fruticulosa

Wolf's-milk Slime

Lycogala epidendrum

Japanese Lantern Slime

Dicrydium cancellatum

White-footed Slime

Dickea leucopodia

FAUNA

Forest Disk Snail

Anguispira alternata

Almond Millipede

Signoria aberrans

Northern Widow

Latrodectus variolus

Marbled Orb-weaver

Araneus marmoreus

Long-jawed Orb-weaver

Tetragnatha sp.

Rabid Wolf Spider

Lycosa rabida

Green Lynx Spider

Psecutia viridans

Short-winged Green Grasshopper

Dichromorpha viridis

Slant-faced Grasshopper

Syrphula admirabilis

Short-horned Grasshopper

Metaleptea brevicornis

Sulfur-winged Grasshopper

Arphia sp.

Green-striped Grasshopper

Chortophaga viridifasciata

Differential Grasshopper

Melanoplus differentialis

Red-legged Grasshopper

Melanoplus femurrubrum

Shield-backed Katydid

Atlantius gibbosus

Field Cricket

Gryllus sp.

Rapier Meadow Katydid

Conocephalus strictus

Carolina Mantid (egg)

Stagmomantis carolina

Chinese Mantid (egg)

Tenodera aridifolia sinensis

Water Bug

Belostomatidae flumineum

Toad Bug

Gelastocoris oculatus

Red Imported Fire Ant

Solenopsis invicta

Paper Wasp (nest)

Polistes sp.

Eastern Pondhawk

Erythemis simplicicollis

White-tail Dragonfly

Platthemis lydia

Atlantic Bluet (damselfly)

Enallagma doubledayi

Tiger Beetle

Cicindela tranquebarica

Woodland Ground Beetle

Loxandrus minor

Pterostichus sp.

Abacids sculpinus

Dingy Ground Beetle

Harpalus pennsylvanicus

Corn-seed Beetle

Agonoderus lecontei

Notch-mouthed Ground Beetle

Dicaeolus ambiguus

Dicaeolus dilutatus

Dicaeolus dilutatus

Predacious Diving Beetle

Laccophilus maculosus maculosus

Hydroporus carolinus

Hydroporus lobatus

Hydroporus undulatus

Ilybius biguttatus

Water Scavenger Beetle <i>Tropisternus collaris striolatus</i> <i>Tropisternus lateralis nimibatus</i> <i>Tropisternus natator</i>	Question Mark (butterfly) <i>Polygonia interrogans</i>	Turkey Vulture <i>Cathartes aura</i>	Golden-crowned Kinglet <i>Regulus satrapa</i>
Cross-toothed Rove Beetle <i>Oxypterus femoralis</i>	Anglewing (butterfly) <i>Polygonia sp.</i>	Black Vulture <i>Coragyps atratus</i>	Ruby-crowned Kinglet <i>Regulus calendula</i>
Shining Fungus Beetle <i>Scaphitoma suturalis</i>	Common Buckeye (butterfly) <i>Junonia coenia</i>	Sharp-shinned Hawk <i>Accipiter striatus</i>	Eastern Bluebird <i>Sialia sialis</i>
Passalus; Bess-beetle <i>Popillia disjunctus</i>	Viceroy; Mimic <i>Limnitis archippus</i>	Red-shouldered Hawk <i>Buteo lineatus</i>	Wood Thrush <i>Hylocichla ustulata</i>
Tumblebug; Dung Beetle <i>Glaphyrocathus viridis</i>	Monarch (butterfly) <i>Danaus plexippus</i>	Yellow-billed Cuckoo <i>Coccyzus americanus</i>	American Robin <i>Turdus migratorius</i>
Hister-like Dung Beetle <i>Ateuchus histeroides</i>	Duskywing Skipper <i>Erynnis sp.</i>	Belted Kingfisher <i>Ceryle alcyon</i>	Northern Mockingbird <i>Mimus polyglottos</i>
Earth-boring Dung Beetle <i>Geotrupes blackburnii blackburnii</i>	Datana Moth Caterpillar <i>Datana sp.</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>	Brown Thrasher <i>Toxostoma rufum</i>
June Beetle <i>Phyllaphaga sp.</i>	Fall Webworm Moth <i>Hyphantria cunea</i>	Northern Flicker <i>Colaptes auratus</i>	Solitary Vireo <i>Vireo solitarius</i>
Rose Chafer <i>Macrodactylus angustatus</i>	Mosquitofish <i>Gambusia sp.</i>	Downy Woodpecker <i>Picoides pubescens</i>	Black-throated Blue Warbler <i>Dendroica caerulescens</i>
Large Flat-headed Pine Borer <i>Chalcophora virginianensis</i>	Bluegill <i>Lepomis macrochirus</i>	Yellow-bellied Sapsucker <i>Sphyrapicus varius</i>	Yellow-rumped Warbler <i>Dendroica coronata</i>
Click Beetle <i>Cardiophorus sp.</i>	Eastern Newt <i>Notopthalmus viridescens</i>	Acadian Flycatcher <i>Empidonax virens</i>	Pine Warbler <i>Dendroica pinus</i>
Net-winged Beetle <i>Platylabus lictor</i>	Northern Cricket Frog <i>Acris crepitans</i>	Blue Jay <i>Cyanocitta cristata</i>	Ovenbird <i>Seiurus aurocapillus</i>
Firefly; Lightning Beetle <i>Photinus sp.</i>	Eastern Box Turtle <i>Terrapene carolina</i>	American Crow <i>Corvus brachyrhynchos</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Tumbling Flower Beetle <i>Mordellistena sp.</i>	Carolina Anole <i>Anolis carolinensis</i>	Tufted Titmouse <i>Parus bicolor</i>	Chipping Sparrow <i>Spizella passerina</i>
Darkling Beetle <i>Ulmus imberbis</i>	Ground Skink <i>Scincella lateralis</i>	Carolina Chickadee <i>Parus carolinensis</i>	White-throated Sparrow <i>Zonotrichia albicollis</i>
Seven-spotted Lady Beetle <i>Coccinella septempunctata</i>	Worm Snake <i>Carphophis amoenus</i>	Brown Creeper <i>Certhia americana</i>	Red-winged Blackbird <i>Agelaius phoeniceus</i>
Hidden Snout Weevil <i>Conotrachelus posticus</i>	Pied-billed Grebe <i>Podilymbus podiceps</i>	Red-breasted Nuthatch <i>Sitta canadensis</i>	Common Grackle <i>Quiscalus quiscula</i>
Eastern Tiger Swallowtail <i>Papilio glaucus</i>	Double-crested Cormorant <i>Phalacrocorax auritus</i>	Brown-headed Nuthatch <i>Sitta pusilla</i>	House Finch <i>Carduelis mexicanus</i>
Everes Tailed-blue(butterfly) <i>Everes coenonympha</i>	Great Blue Heron <i>Ardea herodias</i>	Carolina Wren <i>Thryothorus ludovicianus</i>	Raccoon <i>Procyon lotor</i>
	American Coot <i>Fulica americana</i>		White-tailed Deer (tracks) <i>Odocoileus virginianus</i>

Pacolet River Heritage Preserve

(Soapstone Ridge)

Spartanburg County

September 22, 1990

Pacolet River Heritage Preserve, formerly called Soapstone Ridge, was named for an outcrop of soapstone rock that lies on the bluff above the Pacolet River. Soapstone is a soft, greasy-feeling rock used for laboratory tables and many decorative uses because it is easily carved. The associated soil is high in magnesium, limiting the vegetation that will tolerate this soil composition. This site attracted humans as long ago as 6000 years, and partially carved bowls left by the Native Americans can still be seen attached to these rocks. These early workmen utilized knobs of material to minimize the amount of work they had to do to get a useful container. It is surmised that the ones still unfinished were going to be flawed, and were deliberately left behind. SCAN's enjoyment of the site was enhanced by having two members of the Wofford College faculty with us to explain what we were seeing, Dr. Terry Ferguson, an archaeologic geologist, and Dr. Doug Rayner, botanist.



Pacolet River Heritage Preserve (continued)
September 22, 1990

FLORA

Alga

Protococcus sp.

Lichen

Graphis scripta
Cladonia capitata
Cladonia caroliniana
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia cristatella scyphulifera
Cladonia macilentia
Cladonia parasitica
Cladonia polycarpoides
Cladonia robbinsii
Cladonia uncialis
Cladonia cervicornis
Pycnophelia papillaria
Cetraria oakesiana
Hypotrachyna livida
Parmelia rudecta
Parmelia dissecta
Parmotrema dilatatum
Parmotrema hypotropum
Parmotrema mellissii
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema reticulatum
Parmotrema ultralucens
Parmotrema anthinum
Parmotrema chinense
Pseudoparmelia caperata
Flavoparmelia baltimorensis
Ramalina americana
Ulex musabitis
Ulex strigosus

Anaptychia palmata
Physcia alpicola
Physcia americana
Heterodermia albicans
Heterodermia obscurata
Heterodermia speciosa
Pyxine caesiopurpurea
Physconia detrita
Broom Moss
Dicranum scoparium
Running-pine
Lycopodium flabelliforme
Common Grape Fern
Botrychium dissectum
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
Purple-top
Tridens flavus
Spike Grass
Urolophora sessiliflora
River Oats
Urolophora latifolia
Wild Rye Grass
Elymus virginicus
Paspalum (grass)
Paspalum floridanum

Directions to Pacolet River Heritage Preserve:
 From downtown Spartanburg, take US 176/SC 9 southeast toward Pacolet and Union. Drive approximately 6 miles, and turn left onto County Road 680 (Bethesda Church Road). Travel 3.3 miles until 680 ends at County Road 108, Goldmine Road. Turn right onto Goldmine, then left onto Bethesda Place Road; drive to the end and park in parking area.

Fringed Greenbrier
Smilax bona-nox
Solomon's-seal
Polygonatum biflorum
False Aloe
Agave virginica
Mockernut Hickory
Carya tomentosa
Beech
Fagus grandifolia
White Oak
Quercus alba
Post Oak
Quercus stellata
Black Oak
Quercus velutina
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Winged Elm
Ulmus alata
Hackberry
Celtis occidentalis georgiana
Red Mulberry
Morus rubra
Tulip-poplar
Liriodendron tulipifera
PawPaw
Asimina sp.
Sweet-shrub; Carolina-allspice
Calyanthus floridus
Agrimony
Agrimonia parviflora
Ninebark
Prunus serotina
Red Chokeberry
Sorbus arbutifolia
Hawthorn
Crataegus sp.
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Mimosa; Silk-tree
Albizia julibrissin
Redbud; Judas-tree
Cercis canadensis
Partridge-pea
Cassia fasciculata
Pencil-flower
Silene acaulis
Naked-flower Tick-trefoil
Desmodium nudiflorum

Flowering Spurge
Euphorbia corollata
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Eustoma americanum
Red Maple
Acer rubrum
New-Jersey-tea
Ceanothus americanus
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
St.-Andrew's-cross
Hypericum hypericoides
Russian-olive
Elaeagnus umbellata
Devil's-walking-stick
Aralia spinosa
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Pine-sap
Monotropa hypopitys
Carolina-laurel
Rhododendron minus
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Persimmon
Diospyros virginiana
American Ash; White Ash
Fraxinus americana
Yellow Jessamine
Gelsemium sempervirens
Gentian
Gentiana villosa
Skullcap
Scutellaria sp.
Carpenterweed
Prunella vulgaris
Gerardia
Agalinis sp.
Cross Vine
Anisostichus capreolata

Trumpet Vine
Campsis radicans
Ruellia
Ruellia carolinensis
Arrowwood
Viburnum dentatum
Lobelia
Lobelia puberula
Common Ragweed
Ambrosia artemisiifolia
Rattlesnake-root
Prenanthes altissima
Thistle
Cirsium sp.
Blazing-star
Liatris graminifolia
Thoroughwort
Eupatorium album

Pussy-toes
Antennaria plantaginifolia
Goldenrod
Solidago sp.
Hairy Wood Sunflower
Helianthus atrorubens
Sunflower
Helianthus sp.
Coreopsis
Coreopsis major
Beggar-ticks
Bidens frondosa
Purple Jelly-drops
Asclepias tuberosa
Carbon-balls (fungus)
Daldinia concentrica
Orange Jelly
Dacrymyces deliquescens

Jellied False-coral
Tremelodendron pallidum
Cinnabar-red Chanterelle
Cantharellus cinnabarinus
Crown-tipped Coral
Clavicornia pyxidata
Ochre Spreading Tooth
Steccherinum ochraceum
Turkey-tail
Trametes versicolor
Violet-toothed Polypore
Trichaptum biformis
Rag-veil Amanita
Amanita cinereopannosa
Grisette
Amanita vaginata
Frost's Boletus
Boletus frostii
Yellow-cracked Boletus
Boletus submontosus
Violet-gray Boletus
Tylopilus plumbeoviolaceus
Peppery Milky
Lactarius piperatus
Orange Pinwheel Marasmius
Marasmius siccus
Rounded Earthstar
Geastrum saccatum
Dog Stinkhorn
Matinus caninus

Pigskin Poison Puffball
Scleroderma citrinum

FAUNA

Arrow-shaped Spiny-back
Micrathena sagittata
White Micrathena (spider)
Micrathena mitrata
Marbled Orb-weaver
Araneus marmoreus
Arrowhead Spider
Verrucosa arenata
Chinese Mantid (egg)
Tenodera aridifolia sinensis
Common Green Darner
Anax junius
Dingy Ground Beetle
Harpalus pennsylvanicus
Darkling Beetle
Ulmus imberbis
Hickory Girdler Beetle
Oncideres cingulata
White-fringed Beetle
Graphognathus sp.
Flower Weevil
Glyptobaris lecontei
Pseudobaris nigra
Odontocorynus pinguis
Pearl Crescent
Phyciodes tharos
Gemmed Satyr (butterfly)
Cylopterus gemma
Common Wood-nymph (butterfly)
Cercyonis pegala
Woolly Bear Caterpillar (larva)
Pyrrharchia isabella
Fall Webworm Moth
Hyphantria cunea



(Photo by L. Greenlee)

Betty Gilbert takes a break.



(Photo by V. Wain)

Carbon-balls (fungus), *Daldinia concentrica*.



(Photo by L. Greenlee)

Hearts-a-burstin'-with-love,
Euonymus americanus.

Walnut Grove Plantation

Spartanburg County

June 24, 1989

Walnut Grove is a restored plantation, based on a house built in 1765. Authentic outbuildings such as workshops and a school, and period gardens have also been restored. There is a nature trail to give a glimpse of the natural materials available in the eighteenth century. Some of the forested area is recent transition material, but some pockets of very old forest remain. SCAN was only in the area about an hour, but it proved to be an interesting site.

Directions to Walnut Grove Plantation: From I-26 south of Spartanburg, take Exit 28 and go north on US 221 toward Spartanburg. At the very first road, turn right onto County Road 196 south. After 1.0 mile it makes a right turn; continue for another half mile. Where road 196 then makes a left turn, go straight ahead onto a gravel road leading to Walnut Grove Plantation.



(Photo by V. Wain)

Running-pine, *Lycopodium flabelliforme*.



Walnut Grove Plantation (continued)
June 24, 1989

FLORA

Lichen
Cladonia sp.
Running-pine
Lycopodium flabelliforme
Rattlesnake Grape Fern
Botrychium virginianum
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Microstegium (grass)
Microstegium vimineum
Crane-fly Orchid
Tipularia discolor
Black Walnut
Juglans nigra
Beech
Fagus grandifolia
White Oak
Quercus alba
Black Jack Oak
Quercus marilandica
Winged Elm
Ulmus alata
Red Mulberry
Morus rubra
Pokeweed; Pokeberry
Physalis americana
Tulip-poplar
Liriodendron tulipifera
Cucumber-tree
Magnolia acuminata

Poor-man's-pepper
Lepidium virginicum
Climbing-hydrangea
Clematis barbara
Sweet-gum
Liquidambar styraciflua
Five-fingers
Potentilla canadensis
Chickasaw Plum; Wild Plum
Prunus angustifolia
Black Cherry; Wild Cherry
Prunus serotina
Spurge
Euphorbia sp.
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Boxelder
Acer negundo
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
Yellow Passionflower
Passiflora lutea
Fennel
Foeniculum vulgare
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata

Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Elliott's Blueberry
Vaccinium elliotii
Periwinkle
Vinca minor
Butterfly-weed
Asclepias tuberosa
Asclepias
Asclepias tuberosa tuberosa
Lyre-leaved Sage
Salvia lyrata
Ruella
Ruellia purshiana
Ruellia caroliniensis
Plantain
Plantago sp.
Bluets
Houstonia purpurea
Cleavers
Galium aparine
Japanese Honeysuckle
Lonicera japonica
Prenanthes
Prenanthes sp.
Wild Lettuce
Lactuca sp.
Elephant's-foot
Elephantopus carolinianus
Daisy Fleabane
Erigeron philadelphicus

Dingy Ground Beetle
Anisodactylus rusticus
Rose Chafer
Macrodactylus angustatus
Flower Scarab Beetle
Trigonopeltastes sp.
Soldier Beetle
Chauliognathus marginatus
Narrow-waisted Bark Beetle
Mycterus scaber
False Darkling Beetle
Canifa pallipes
False Blister Beetle
Asclera sp.
Seven-spotted Lady Beetle
Coccinella septempunctata
White-fringed Beetle
Leucophaea leucoloma
Palamedes Swallowtail
Papilio palamedes
Variegated Fritillary
Euptoieta claudia
American Lady (butterfly)
Vanessa virginiensis
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Fowler's Toad
Bufo woodhousei
American Crow
Corvus brachyrhynchos
Pine Warbler
Dendroica pinus

FAUNA

Bush Katydid
Scudderella sp.
Carpenter Bee
Xylocopa virginica
Ebony Jewelwing
Calopteryx maculata
Green Tiger Beetle
Cicindela sexguttata

(Photo by L. Smith)
Ebony jewelwing,
Calopteryx maculata.



(Photo by L. Greenlee)
Variegated fritillary,
Euptoieta claudia.



(Photo by L. Smith)
Chickasaw plum or wild plum,
Prunus angustifolia.



Sumter County

Millford Plantation

Sumter County

March 28, 1987

SCAN's visit to this antebellum plantation and home of an early South Carolina governor, John L. Manning, was blessed with a lovely spring day. The plantation lies just above the hills leading down to the floodplain of the Wateree River. There were extensive trails and field edges to explore. The visit was made possible by the permission of the owner, Mr. Emory Clark, and greatly enhanced by the background information and trail guidance provided by Mr. Louis Hall.

Private property. Not open to the public. No map or directions provided.

FLORA

Lichen
Cladonia sp.
Rattlesnake Grape Fern
Botrychium virginianum
Southern Lady Fern
Athyrium asplenoides
Lag Fern
Dryopteris celsa
Christmas Fern
Polystichum acrostichoides
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Deodar Cedar
Cedrus deodara
Bald-cypress
Taxodium distichum
Japanese Cryptomeria;
Japanese Cedar
Cryptomeria japonica
Dwarf Palmetto
Sabal minor
Spanish-moss
Tillandsia usneoides
Spring Coral-root
Corallorhiza wisteriana
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
Post Oak
Quercus stellata
Rock Chestnut Oak
Quercus prinus
Cherrybark Oak
Quercus falcata
Water Oak
Quercus nigra

Willow Oak
Quercus phellos
Heartleaf
Hexastylis arifolia
Wild Pink; Catchfly
Silene caroliniana
Windflower
Thalictrum thalictroides
Mayapple
Podophyllum peltatum
Bloodroot
Sanguinaria canadensis
Hairy Bitter Cress
Cardamine hirsuta
Climbing-hydrangea
Decumaria barbara
Sweet-gum
Liquidambar styraciflua
Blackberry; Brambles
Rubus sp.
Hawthorn
Crataegus sp.
Hog Plum
Prunus umbellata
Redbud; Judas-tree
Cercis canadensis
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Yaspon
Ilex vomitoria
Hearts-a-burstin'-with-love
Euonymus americanus
Red Buckeye
Aesculus pavia
Violet
Viola affinis
Flowering Dogwood
Cornus florida
Dog-hobble
Leucothoe axillaris
Periwinkle
Vinca minor
Toadflax
Linaria canadensis

Cross Vine
Anisostichus capreolata
Partridge-berry
Mitchella repens
Small Bluets
Houstonia missillia
Japanese Honeysuckle
Lonicera japonica
American Elderberry
Sambucus canadensis
Turkey-tail
Trametes versicolor
False Turkey-tail
Stereum ostrea

FAUNA

Passalus; Bess-beetle
Popillia disjunctus
Yellow-marked Buprestid Beetle
Acmacodera tubulus
Cucumber Beetle
Diabrotica sp.
Pale-striped Flea Beetle
Systena blanda
Eastern Tiger Swallowtail
Papilio glaucus
Cabbage White (butterfly)
Pieris rapae
Falcate Orange-tip
Anthocharis midea
Cloudless Sulphur
Phoebastria senaeae eubule
Sleepy Orange (butterfly)
Eurema nicippe
Duskywing Skipper
Erynnis sp.
Polyphemus Moth (cocoons)
Antheraea polyphemus
Southern Dusky Salamander
Desmognathus auriculatus
Eastern Mud Turtle
Kinosternon subrubrum
Carolina Anole
Anolis carolinensis

Five-lined Skink
Eumeces fasciatus
Ground Skink
Scincella lateralis
Brown Water Snake
Nerodia taxipilota
Downy Woodpecker
Picoides pubescens
Pileated Woodpecker
Dryocopus pileatus
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Blue-gray Gnatcatcher
Polioptila caerulea
American Robin (nest)
Turdus migratorius
White-eyed Vireo
Vireo griseus
Red-eyed Vireo
Vireo olivaceus
Northern Parula (and nest)
Parula americana
Yellow-throated Warbler
Dendroica dominica
Eastern Fox Squirrel
Sciurus niger
White-tailed Deer (tracks)
Odocoileus virginianus



(Photo by L. Gussakov)

SCAN members walk the trails of Millford Plantation.

Poinsett State Park

Sumter County

June 25, 1994

Poinsett State Park is named for the South Carolinian who was an ambassador to Mexico in the 1840's and while there discovered and brought back to the United States the plant we now call the poinsettia. This park is high on the bluff overlooking the floodplain of the Wateree River. The hilly terrain is the result of spring-fed creeks eroding deep valleys into these bluffs. This has created plant communities representative of sandhills, swamps, mountain bluffs and pine-hardwood forests. There is an old mill pond that harbors a large amount of aquatic life. Dragonflies abound, as is shown by the long list observed on this day. One uncommon sighting was the mocha emerald, a dragonfly whose adult tends to perch by hanging straight down vertically from a twig tip that is in the interior of a plant. It often takes sharp eyes to find them.

Directions to Poinsett State Park: From Sumter, go west on US 378/US 76. Note the junction with SC 120 on the left and continue travelling 9 miles to the junction with SC 261, also on the left. Turn left (south) onto SC 261 and continue through Wedgetfield for 10 miles. At the sign for Poinsett State Park, turn right and follow additional signs to the park, about 2 miles.



FLORA

Lichen

Cladonia arbuscula
Cladonia chlorophaea
Cladonia sobolescentis
Cladonia cristatella
Cladonia leporina
Cladonia mateocynthia
Cladonia piedmontensis
Cladonia polycarpha
Cladonia polycarpoides
Cladonia uncialis
Cladonia pectiformis
Bulbothrix goebelii
Hypotrachyna livida
Parmelia horrescens
Parmelia minarum
Parmotrema cetratum
Parmotrema crinitum f. ultralucescens
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema rampoldense
Parmotrema ultralucescens
Flavoparmelia caperata
Conoparmelia caroliniana
Punctelia bolliana
Punctelia rudecta
Rimelia reticulata
Rimelia cetrata
Rimelia subtidiosa
Ulex strigosa
Physcia alpeola

Physcia americana
Heterodermia spatulata sp. nov.
Pyxine caesiopruinosa
Physcia enteroxantha
Cinnamon Fern
Osmunda cinnamomea
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Bald-cypress
Taxodium distichum
Bur-reed
Spartanium americanum
Cane; Switch Cane
Arundinaria gigantea
Cut Grass
Leersia sp.
Baggy-knees Grass
Sacciolepis striata

Nut-rush
Scleria triglomerata
Arrowleaf Arum
Peltandra virginica
Duckweed
Lemna sp.
Bogmoss
Mayaca fluviatilis
Spanish-moss
Tillandsia usneoides
Roseling; Spiderwort
Tradescantia rosea
Greenbrier; Bulbrier
Smilax rotundifolia
Fringed Greenbrier
Smilax bona-nox
Sawbrier; Greenbrier
Smilax glauca
Indian Cucumber-root
Medeola virginiana
Lizard's-tail
Saururus cernuus
Wax-myrtle; Southern Bayberry
Myrica cerifera
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
Tag Alder
Alnus serrulata
Hop-hornbeam
Ostrya virginiana

American Hornbeam; Ironwood

Carpinus caroliniana
Beech
Fagus grandifolia
Chinquapin
Castanea sp.
White Oak
Quercus alba
Post Oak
Quercus stellata
Scrubby Post Oak
Quercus margaretta
Scarlet Oak
Quercus coccinea
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
Winged Elm
Ulmus alata
Hackberry; Sugarberry
Celtis sp.
False Nettle
Boehmeria cylindrica
Heartleaf
Hexastylis arifolia
Yellowroot
Xanthorrhiza simplicissima

Tulip-poplar <i>Liriodendron tulipifera</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Button-bush <i>Cephalanthus occidentalis</i>	Dung Beetle <i>Onthophagus nubesulifrons</i>
Sweetbay <i>Magnolia virginiana</i>	Summer Grape <i>Vitis aestivalis</i>	Partridge-berry <i>Mitchella repens</i>	Flower Scarab Beetle <i>Trigonopeltastes delis</i>
Sweet-shrub; Carolina-allspice <i>Calycanthus floridus</i>	Pepper-vine <i>Ampelopsis arborea</i>	Japanese Honeysuckle <i>Lonicera japonica</i>	Tick Trefoil Leaf-miner <i>Pachyschelus laevigatus</i>
Redbay <i>Persea borbonia</i>	Silky Camellia <i>Stewartia malacodendron</i>	Possumhaw Viburnum <i>Viburnum nudum</i>	Click Beetle <i>Limonia</i> sp.
Sassafras <i>Sassafras albidum</i>	St.-Andrew's-cross <i>Hypericum hypericoides</i>	Elephant's-foot <i>Elephantopus tomentosus</i>	Net-winged Beetle <i>Caelia dimidiata</i>
Virginia-willow <i>Salix virginica</i>	St.-John's-wort <i>Hypericum walteri</i>	Eupatorium <i>Eupatorium</i> sp.	Tumbling Flower Beetle <i>Mordella atrata</i>
Climbing-hydrangea <i>Decumaria barbara</i>	Hypericum <i>Hypericum</i> sp.	Pussy-toes <i>Antennaria plantaginifolia</i>	Mordellistena unicolor
Sweet-gum <i>Liquidambar styraciflua</i>	Water Loosestrife <i>Decodon verticillatus</i>	Sea-myrtle; Groundsel-tree <i>Baccharis halimifolia</i>	Spotless Lady Beetle <i>Cycloneda sanguinea</i>
Witch-hazel <i>Hanania virginiana</i>	Devil's-walking-stick <i>Aralia spinosa</i>	Heterotheca <i>Heterotheca graminifolia</i>	Flower Longhorn Beetle <i>Typocerus velutinus</i>
Dwarf Hawthorn <i>Crataegus uniflora</i>	Snakeroot <i>Sanicula</i> sp.	Variable Russula <i>Russula variata</i>	Round-necked Longhorn Beetle <i>Elaphidion mucronatum</i>
Donny Serviceberry <i>Amelanchier arborea</i>	Black Tupelo; Blackgum <i>Nyssa sylvatica sylvatica</i>	FAUNA	Warty Leaf Beetle <i>Chlamys gibbosus</i>
Black Cherry; Wild Cherry <i>Prunus serotina</i>	Swamp Tupelo; Swamp Blackgum <i>Nyssa sylvatica biflora</i>	Purse-web Spider <i>Sphodrus bicolor</i>	Flea Beetle <i>Disomyia abbreviata</i>
Carolina Cherry-laurel <i>Prunus caroliniana</i>	Flowering Dogwood <i>Cornus florida</i>	Orchard Spider <i>Leucauge venusta</i>	Leaf-mining Beetle <i>Chalcops scapularis</i>
Redbud; Judas-tree <i>Cercis canadensis</i>	Sweet Pepperbush <i>Clethra alnifolia</i>	Orb-weaver <i>Neoscona arabesca</i>	Eastern Tiger Swallowtail <i>Papilio glaucus</i>
Zenia <i>Zenia bracteata</i>	Swamp Honeysuckle <i>Rhododendron viscosum</i>	Long-jawed Orb-weaver <i>Tetragnatha elongata</i>	Palamedes Swallowtail <i>Papilio palamedes</i>
Naked-flower Tick-trefoil <i>Desmodium nudiflorum</i>	Mountain-laurel <i>Kalmia latifolia</i>	Carolina Locust <i>Disostea carolina</i>	Fall Webworm Moth <i>Hyphantria cunea</i>
Beggar-like <i>Desmodium</i> sp.	Fetterbush <i>Lyonia lucida</i>	Wheel Bug <i>Arlus cristatus</i>	Cricketer Frog <i>Acris</i> sp.
Stricea <i>Leptodea cuneata</i>	Dog-hobble <i>Leucothoe axillaris</i>	Common Eastern Velvet-ant <i>Dacymetilla occidentalis</i>	Green Frog; Bronze Frog <i>Rana clamiters</i>
American Wisteria <i>Wisteria frutescens</i>	Sourwood <i>Oxydendrum arboreum</i>	Velvet-ant <i>Dacymetilla</i> sp.	Carolina Anole <i>Anolis carolinensis</i>
Wild Indigo <i>Indigofera caroliniana</i>	Sparkleberry <i>Vaccinium arboreum</i>	Mocha Emerald (dragonfly) <i>Somatoclora linearis</i>	Eastern Fence Lizard <i>Sceloporus undulatus</i>
Hop-peanut <i>Asphicarpa bracteata</i>	Elliott's Blueberry <i>Vaccinium elliotii</i>	Halloween Pennant (dragonfly) <i>Cethemis epinina</i>	Broadhead Skink <i>Eumeces laticeps</i>
Tread-softly <i>Cnidococcus stimulosis</i>	Low-bush Blueberry <i>Vaccinium tenellum</i>	Banded Pennant (dragonfly) <i>Cethemis fasciata</i>	Skink <i>Eumeces</i> sp.
Carolina Ipecac <i>Euphorbia ipecacuanhae</i>	Persimmon <i>Diospyros virginiana</i>	Eastern Pondhawk <i>Erythemis simplicicollis</i>	Six-lined Racerunner <i>Cnemidophorus sexlineatus</i>
Flowering Spurge <i>Euphorbia corollata</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>	Slaty Skimmer <i>Libellula incesta</i>	Black Racer <i>Coluber constrictor</i>
Poison-ivy <i>Rhus radicans</i>	American Ash; White Ash <i>Fraxinus americana</i>	Pond Skimmer <i>Libellula</i> sp.	Little Blue Heron <i>Egretta caerulea</i>
Winged Sumac <i>Rhus copallina</i>	Yellow Jessamine <i>Gelsemium sempervirens</i>	Eastern Amberwing (dragonfly) <i>Perithemis tenera</i>	Yellow-billed Cuckoo <i>Coccyzus americanus</i>
American Holly <i>Ilex opaca</i>	Climbing Dogbane <i>Trachelospermum diffusum</i>	Black-mantled Glider <i>Tramea lacerata</i>	Red-bellied Woodpecker <i>Melanerpes carolinus</i>
Sweet Gallberry <i>Ilex coriacea</i>	Man-root <i>Ipomoea pandurata</i>	Ebony Jewelwing <i>Calopteryx maculata</i>	Downy Woodpecker <i>Picoides pubescens</i>
Hearts-a-burstin'-with-love <i>Eustoma americanus</i>	Beautyberry <i>Callicarpa americana</i>	Pedunculate Ground Beetle <i>Pezomachus depressus</i>	Pileated Woodpecker <i>Dryocopus pileatus</i>
Red Maple <i>Acer rubrum</i>	Skullcap <i>Scutellaria</i> sp.	Copnotomus interrogans	Eastern Wood-pewee <i>Contopus virens</i>
Spotted Touch-me-not <i>Impatiens capensis</i>	Cross Vine <i>Antisotichus capreolata</i>	Whirligig Beetle <i>Dineutus roberti</i>	Eastern Phoebe <i>Sayornis phoebe</i>
Supple-jack; Rattan-vine <i>Berchemia scandens</i>	Trumpet Vine <i>Campsis radicans</i>	Gyrinus lugens	Acadian Flycatcher <i>Empidonax virens</i>
Virginia-creeper <i>Parthenocissus quinquefolia</i>	Ruellia <i>Ruellia carolinensis</i>	Hister-like Dung Beetle <i>Atrichus histeroides</i>	American Crow <i>Corvus brachyrhynchos</i>
			Fish Crow <i>Corvus ossifragus</i>

Poinsett State Park (continued)
June 25, 1994

Tufted Titmouse*Parus bicolor***Carolina Chickadee***Parus carolinensis***Carolina Wren***Thryothorus ludovicianus***Wood Thrush***Hylocichla mustelina***Brown Thrasher***Taxostoma rufum***White-eyed Vireo***Vireo griseus***Yellow-throated Vireo***Vireo flavifrons***Red-eyed Vireo***Vireo olivaceus***Northern Parula***Parula americana***Yellow-throated Warbler***Dendroica dominica***Northern Cardinal***Cardinalis cardinalis***Indigo Bunting***Passerina cyanea***Rufous-sided Towhee***Pipilo erythrophthalmus***Summer Tanager***Piranga rubra***Gray Squirrel***Sciurus carolinensis*

Woods Bay State Park
Sumter, Clarendon and Florence Counties
November 18, 1995

Woods Bay is a Carolina Bay with water in it year round, shaded by an almost complete canopy of trees. Nearby, an old mill pond that is shallow and mostly open to the sun offers another body of water for aquatic species. The bay is accessible from a boardwalk that extends deep into its center. Usually canoes are available for a small fee to explore the interior more closely. The mill pond has a nature trail that goes all around it, most of it quite close to the water's edge. These two bodies of water, plus the characteristic bay sand rim, create a very diverse set of plant and animal communities. Reptiles, amphibians, and aquatic insects are readily found here. The plant material is diverse and typical of these kinds of habitats. On this day, an added treat was a glimpse of a golden eagle in a tree just outside the park boundaries.

Directions to Woods Bay State Park: From Sumter, take US 378 east about 20 miles to Turbeville. Just past the center of town, fork left (north) on US 301 toward Olanda. Watch carefully for County Road 152 in about 4.5 miles; turn left. Go about 2 miles to the park entrance on the left.

**FLORA****Lichen**

Leptogium cyanescens
Graphis scripta
Graphis elegans
Glyptis cicutricosa
Phaeographis dendritica
Bacidia polychna
Bacidia schweinitzii
Bacidia laurocerasi
Lecidea ruscula
Cladonia subtenuis
Cladonia cristatella
Cladonia didyma
Cladonia leporina
Cladonia polycarpoides
Pertusaria ostiolata

Pertusaria paratuberculifera
Pertusaria texana
Pertusaria tetraethalia
Pertusaria sinuamexicana
Maronea consans
Haematomma puniceum
Haematomma elatum
Lecanora cupressi
Lecanora pallida rubescens
Lecanora varia
Ochrolechia africana
Pachyspora sp.
Phycis willei
Bulbothrix confederata
Bulbothrix goebelii
Bulbothrix goebelii f. minor
Bulbothrix isidiza
Hypotrachyna livida

Parmelia horrescens
Parmelia minarum
Parmeliopsis subambigua
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema tinctorum
Parmotrema saxatilis
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Rimelia subisidiata
Usnea mutabilis
Usnea rubicunda
Usnea strigosa
Buellia punctata
Buellia curatellae

Buellia disciformis
Physcia americana
Heterodermia albicans
Heterodermia obscurata
Phaeophyscia ciliata
Phaeophyscia pusilliloides
Phaeophyscia rubropulchra
Anthracoetium leucostomum
Pyrenula sp.
Trypetellium mastoideum
Trypetellium virens
Cinnamon Fern
Osmunda cinnamomea
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides

Virginia Chain Fern
Woodwardia virginica
Netted Chain Fern
Woodwardia areolata
Resurrection Fern
Polypodium polypodioides
Long-leaf Pine
Pinus palustris
Loblolly Pine
Pinus taeda
Pond Pine
Pinus serotina
Cane; Switch Cane
Arundinaria gigantea
Wire Grass
Aristida sp.
Smut Grass
Sporobolus poliretii
Dulichium (sedge)
Dulichium arundinaceum
Spanish-moss
Tillandsia usneoides
Red-berried Greenbrier
Smilax walteri
Bamboo Smilax
Smilax laurifolia
Sweet-scented Smilax
Smilax smallii
Bear-grass
Yucca filamentosa
Crane-fly Orchid
Tipularia discolor
Lizard's-tail
Saururus cernuus
Wax-myrtle; Southern Bayberry
Myrica cerifera
Swamp Bayberry
Myrica heterophylla
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
White Oak
Quercus alba
Turkey Oak
Quercus laevis
Southern Red Oak; Spanish Oak
Quercus falcata falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Heartleaf
Hexastylis arifolia
Jointweed
Polygonella polygama
Wire-plant
Sipalicia setacea
Sandwort; Longroot
Arenaria caroliniana
Water-lily
Nymphaea odorata
Tulip-poplar
Liriodendron tulipifera
Sweetbay
Magnolia virginiana

Redbay
Persea borbonica
Sassafras
Sassafras albidum
Virginia-willow
Itea virginica
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Shadbush; Serviceberry
Amelanchier sp.
Black Cherry; Wild Cherry
Prunus serotina
Beggar-lice
Desmodium sp.
Wood-sorrel
Oxalis sp.
Winged Sumac
Rhus copallina
Titi
Cyrilla racemiflora
American Holly
Ilex opaca
Inkberry
Ilex glabra
Hearts-a-burstin'-with-love
Eronymus americanus
Red Maple
Acer rubrum
Muscadine; Bullace
Vitis rotundifolia
Loblolly-bay
Gordonia lasianthus
St.-Andrew's-cross
Hypericum hypericoides
Prickly-pear
Opuntia compressa
Water Loosestrife
Decodon verticillatus
Devil's-walking-stick
Aralia spinosa
Swamp Tupelo; Swamp Blackgum
Nyssa sylvatica biflora
Flowering Dogwood
Cornus florida
Sweet Pepperbush
Clethra alnifolia
Spotted Wintergreen
Chimaphila maculata
Azalea
Rhododendron sp.
Fetterbush
Lyonia lucida
Coastal Honeybells
Leucothoe racemosa
Sourwood
Oxydendrum arboreum
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Highbush Blueberry
Vaccinium corymbosum
Horse-sugar; Sweetleaf
Symplocos tinctoria
Yellow Jessamine
Gelsemium sempervirens

Blue-star
Amsonia ciliata
Ground-ivy; Ponyfoot
Dichondra carolinensis
Beautyberry
Callicarpa americana
Gerardia
Agalinis sp.
Cross Vine
Anisostichia capreaolata
Trumpet Vine
Campsis radicans
Bladderwort
Utricularia sp.
Button-bush
Cephalanthus occidentalis
Partridge-berry
Mitchella repens
Possumhaw Viburnum
Viburnum nudum
American Elderberry
Sambucus canadensis
Common Dandelion
Taraxacum officinale
Elephant's-foot
Elephantopus sp.
Dog-fennel
Eupatorium capillifolium
Sea-myrtle; Groundsel-tree
Baccharis halimifolia
Aster
Aster sp.
Sweet Goldenrod
Solidago odora
Goldenrod
Solidago sp.
Heterotheca
Heterotheca graminifolia
Green-headed Jelly-club
Leontia viscosa
Bear's-head Tooth
Herichium coralloides
Mustard-yellow Polypore
Phellinus gilvus

Cort; Webcap
Cortinarius sp.
Peppery Milky
Lactarius pipperatus
Emetic Russula
Russula emetica
Honey Mushroom
Armillariella mellea
Booted Collybia
Collybia peronata
Barometer Earthstar
Astraeus hygrometricus
Pigskin Poison Puffball
Scleroderma citrinum

FAUNA

Amphipod; Scud
Crangonyx serratus
Crab-shaped Spiny-back
Gasteracantha cancriformis
Six-spotted Fishing Spider
Dolomedes triton
Green Stink Bug
Acrosternum hilare
Ambush Bug
Phymata pennsylvanica
Water-strider
Gerris sp.
Backswimmer
Notonecta sp.
Florida Harvester Ant
Pogonomyrmex badius
Meadowfly; Meadowhawk
(dragonfly) Sympetrum sp.
Seven-spotted Lady Beetle
Coccinella septempunctata
Multicolored Asian Lady Beetle
Harmonia axyridis
Lady Beetle
Anatis sp.
Cloudless Sulphur
Phoebastria senaeus
**Phoebastria senaeus
Polyphemus Moth (cocoon)
*Antleria polyphemus***



(Photo by R. Esmatt)

Mating yellow-legged meadowhawks, *Sympetrum vicinum*.

Woods Bay State Park (continued) November 18, 1995

Footpath Sallow (moth)
Metasaglaea semitaria
Spring Peeper
Hyla crucifer
Carolina Anole
Anolis carolinensis
Anhinga; Snakebird
Anhinga anhinga
Turkey Vulture
Cathartes aura
Golden Eagle
Aquila chrysaetos

Red-tailed Hawk
Buteo jamaicensis
Wild Turkey (tracks)
Meleagris gallopavo
Red-bellied Woodpecker
Melanerpes carolinus
Northern Flicker
Colaptes auratus
Downy Woodpecker
Picoides pubescens
Yellow-bellied Sapsucker
Sphyrapicus varius

Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
Tufted Titmouse
Parus bicolor
Brown Creeper
Certhia americana
Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula
Gray Cathbird
Dumetella carolinensis
Northern Mockingbird
Mimus polyglottos

Yellow-rumped Warbler
Dendroica coronata
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Common Grackle
Quiscalus quiscula
Gray Squirrel
Sciurus carolinensis
Raccoon (tracks)
Procyon lotor
Bobcat; Wildcat (tracks)
Felis rufus
White-tailed Deer (tracks)
Odocoileus virginianus



Union County

Tyger River at Sparks Creek

(Sumter National Forest)

Union County

February 23, 1991

February is always a surprising month for a natural history outing. The weather seems to have an unusually large effect on what one sees. This trip fit that description. The area visited was a wooded area and an open meadow in the mid-Piedmont. There was even a small waterfall on Sparks Creek. It was a moist, threatening day, although it never rained, creating one of the most memorable parts of the trip — the many green colors of lush mosses. Large trees, young beech trees with leaves still attached, and an old stream bed were other highlights. It proved to be a site good for practicing winter twig identification.

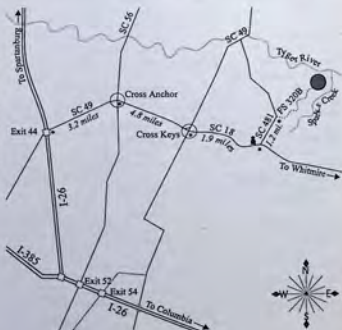
Directions to Tyger River at Sparks Creek: From I-26 between Columbia and Spartanburg, take Exit 44 and go east on SC 49 through Cross Anchor to Cross Keys, 8 miles. Where SC 49 makes a left turn, and Proctor's Salvage Company and a sign to Rose Hill are on the right, bear right onto Old Buncombe Road, SC 18. Go 1.9 miles to the Padgett Creek Baptist Church on the left. Turn left at the Sedalia Hunt Camp sign just past the church onto Bombing Range Road, SC 481. Go about 1.2 miles, turn right onto a dirt-gravel road, FS 320B, and drive to the end of the road. The trail follows the Tyger River upstream.

FLORA

Lichen

Leptogium microstictum
Lobaria ravenelii
Graphis scripta
Bacidia schweinitzii
Lecidea nylanderii
Cladonia evansii
Cladonia cupitata

Cladonia chlorophaea
Cladonia cristatella
Cladonia macilenta
Cladonia polycarpoides
Cladonia santensis
Cladonia humilis
Cladonia sp.
Pertusaria multipunctata
Pertusaria pustulata
Pertusaria paratuberculifera



Pertusaria macounii
Pertusaria xanthodes
Lecanora hugeni
Lecanora cupressi
Lecanora varia
Ochrolechia africana
Candelaria concolor
Parmelia rudecta
Parmelia aurulenta
Parmelia dissecta
Parmotrema cetratum
Parmotrema hypotropum
Parmotrema perforatum
Parmotrema subinctorium
Parmotrema tinctorum
Pseudoparmelia caperata
Pseudoparmelia crozalsiana
Ramalina americana
Unea strigosa
Buellia disciformis
Physcia aipolia
Physcia millegrana
Physcia stellaris
Heterodermia speciosa
Phaeophyscia pusillodes
Phaeophyscia rubropulchra
Trypethelium tropicum
Trypethelium sp.
Opegrapha astraea
Leparia membranacea
Christmas Fern
Polystichum acrostichoides
Ebony Spleenwort
Asplenium platyneuron
Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
River Oats
Uniola latifolia
Field Garlic
Allium vineale
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Eastern Cottonwood
Populus deltoides
Black Walnut
Juglans nigra
Bitternut Hickory
Carya cordiformis
Pignut Hickory
Carya glabra
Tag Alder
Alnus serrulata
River Birch
Betula nigra
American Hornbeam; Ironwood
Carpinus caroliniana

Beech
Fagus grandifolia
White Oak
Quercus alba
Red Oak
Quercus rubra
Spanish Oak
Quercus falcata
Water Oak
Quercus nigra
Willow Oak
Quercus phellos
Laurel Oak
Quercus laurifolia
American Elm
Ulmus americana
Winged Elm
Ulmus alata
Sugarberry; Hackberry
Celtis laevigata
Tulip-poplar
Liriodendron tulipifera
PawPaw
Asimina triloba
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Mouse-ear Cress
Arabisopsis thaliana
Hairy Bitter Cress
Cardamine hirsuta
Sweet-gum
Liquidambar styraciflua
American Sycamore
Platanus occidentalis
Blackberry; Brambles
Rubus sp.
Avens
Geum sp.
Hawthorn
Crataegus sp.
Black Cherry; Wild Cherry
Prunus serotina
Poison-ivy
Rhus radicans
Winged Sumac
Rhus copallina
American Holly
Ilex opaca
Hearts-a'-burstin'-with-love
Euonymus americanus
Boxelder
Acer negundo
Red Maple
Acer rubrum
Summer Grape
Vitis aestivalis
Violet
Viola sp.
Russian-olive
Elaeagnus umbellata
Queen Anne's-lace; Wild Carrot
Daucus carota
Flowering Dogwood
Cornus florida

Spotted Wintergreen
Chimaphila maculata
Sourwood
Oxydendrum arboreum
Sparkleberry
Vaccinium arboreum
Elliott's Blueberry
Vaccinium elliotii
Creeping-Charlie
Lysimachia nummularia
Ash
Fraxinus sp.
Chinese Privet
Ligustrum sinense
Yellow Jessamine
Gelsemium sempervirens
Woolly Mullein
Verbascum thapsus
Cross Vine
Anisostichus capreolata
Trumpet Vine
Campsis radicans
Bedstraw
Galium sp.
Japanese Honeysuckle
Lonicera japonica
Coral-berry
Symphoricarpos orbiculatus
Black-haw; Nanny-berry
Viburnum prunifolium
Viburnum
Viburnum sp.
American Elderberry
Sambucus canadensis
Black-knot
Apiosporina morbosa

Tree-ear
Auricularia auricula
Witches'-butter
Tremella mesenterica

FAUNA

White-lipped Forest Snail
Mesodon thyridoides
Carolina Mantid (egg)
Stagmomantis carolina
Chinese Mantid (egg)
Tenodera aridifolia sinensis
Blackberry Knot Gall (wasp)
Diastrichus nebulosus
Dogwood Club Gall (midge)
Lasioptera clazala
Hickory Girdler Beetle
Oncideres cingulata
Forest Tent Caterpillar (egg)
Malacosoma disstria
Polyphemus Moth (cocoon)
Antheraea polyphemus
Upland Chorus Frog (call)
Pseudacris triseriata
Turkey Vulture
Cathartes aura
American Crow
Corvus brachyrhynchos
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Pine Warbler
Dendroica pinus
White-tailed Deer
Odocoileus virginianus



(Photo by V. Wiant)

White-lipped forest snail, *Mesodon thyridoides*.



York County

Broad River near Hickory Grove

York County
October 27, 1990

Floodplain and field edge habitats were explored on this privately-owned section of the Broad River. The species observed were not unexpected for such a Piedmont site, but certain individual trees have attained impressive size. One river birch measured nine feet, nine inches in diameter! At the time of our visit, this undammed section of the river was being considered for scenic river status; Happily it is now indeed part of the Broad River State Scenic River. Thanks to W.B. Wilkerson for sharing his property, and his perspective on this river.

Directions to Broad River near Hickory Grove: From York, drive south on SC 49 for 7 miles. Turn right (west) on SC 211 to Hickory Grove (5 miles), and then turn left in Hickory Grove, staying on SC 211. The bridge over the Broad River is in about 5.1 more miles. Park there and look for trails going north (upstream) on both sides of the river.



FLORA

Lichen

Cladonia capitata
Hypotrachyna livida
Parmotrema perforatum
Pseudoparmelia caroliniana
Ramalina americana
Usnea strigosa
Heterodermia hypoleuca

Running-pine

Lycopodium flabelliforme

Common Grape Fern

Botrychium dissectum

Christmas Fern

Polystichum acrostichoides

Ebony Spleenwort

Asplenium platyneuron

Eastern Red-cedar

Juniperus virginiana

Purple-top

Tridens flavus

River Oats

Uniola latifolia

Wild Rye Grass

Elymus virginicus

Microstegium (grass)

Microstegium vimineum

Fringed Greenbrier

Smilax bona-nox

Eastern Cottonwood

Populus deltoides

Black Walnut

Juglans nigra

Bitternut Hickory

Carya cordiformis

River Birch

Betula nigra

American Hornbeam; Ironwood

Carpinus caroliniana

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Slippery Elm

Ulmus rubra

Winged Elm

Ulmus alata

Sugarberry; Hackberry

Celtis laevigata

Hackberry

Celtis occidentalis georgiana

Red Mulberry

Morus rubra

Wood-nettle

Laportea canadensis

False Nettle

Boehmeria cylindrica

Clearweed

Pilea pumila

Smartweed; Knotweed

Polygonum setaceum

Pokeweed; Pokeberry

Phytolacca americana

Common Chickweed

Stellaria media

Coralbeads

Coccoloba carolinensis

Tulip-poplar

Liriodendron tulipifera

PawPaw

Asimina triloba

Spicebush

Lindera benzoin

Bitter Cress

Cardamine pensylvanica

Sweet-gum

Liquidambar styraciflua

American Sycamore

Platanus occidentalis

Cocklebur

Agrimonia sp.

Hawthorn

Crataegus sp.

Mimosa; Silk-tree

Albizia julibrissin

Honey Locust

Gleditsia triacanthos

Tree-of-heaven

Ailanthus altissima

Tarweed

Acalypha rhomboidea

Poison-ivy

Rhus radicans

Boxelder

Acer negundo

Yellow Passionflower

Passiflora lutea

Water-willow

Ludwigia decurrens

Ash

Fraxinus sp.

Chinese Privet

Ligustrum sinense

Privet; Ligustrum

Ligustrum sp.

Angle-pod

Matelea sp.

Glecoma

Glecoma hederacea

Cross Vine

Anisostichus capreolata

Trumpet Vine
Campsis radicans
Japanese Honeysuckle
Lonicera japonica
American Elderberry
Sambucus canadensis
Frost Aster
Aster pilosus
Verbesina
Verbesina alternifolia

FAUNA

Marbled Orb-weaver
Aranus marmoreus
Wolf Spider
Lycosa sp.
Carolina Locust
Dixosteira carolina
Slender Meadow Katydid
Conocephalus fasciatus
Eastern Boxelder Bug
Leptocoris trivittatus
Wheel Bug
Arlia cristatus
Toad Bug
Gelastocoris sp.

Hackberry Gall Psyllid (aphid)
Pachysylla venusta
Poplar Petioleball Aphid
Pemphigus populitransversus
Common Eastern Velvet-ant
Doxymitilla occidentalis
Yellowjacket
Vespa sp.
Paper Wasp
Polistes sp.
Pipe-organ Wasp
Trypoxylon politum
False Nettle Stem Gall (midge)
Cecidomyia boehmeriae
Water Scavenger Beetle
Berosus sp.
Large Rove Beetle
Staphylinus maxillosus
Flower Weevil
Pseudobaris nigra
Pearl Crescent
Phyciodes tharos
Common Buckeye (butterfly)
Junonia coenia
Northern Cricket Frog
Acris crepitans

Cricket Frog
Acris sp.
Upland Chorus Frog (call)
Pseudacris triseriata
Great Blue Heron
Ardea herodias
Turkey Vulture
Cathartes aura
Black Vulture
Coragyps atratus
Red-tailed Hawk
Buteo jamaicensis
Northern Flicker
Colaptes auratus
Downy Woodpecker
Picoides pubescens
Yellow-bellied Sapsucker
Sphyrapicus varius
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Carolina Chickadee
Parus carolinensis
Carolina Wren
Thryothorus ludovicianus
Ruby-crowned Kinglet
Regulus calendula

Northern Mockingbird
Mimus polyglottos
Cedar Waxwing
Bombycilla cedrorum
Yellow-rumped Warbler
Dendroica coronata
Northern Cardinal
Cardinalis cardinalis
Rufous-sided Towhee
Pipilo erythrophthalmus
Song Sparrow
Melospiza melodia
White-throated Sparrow
Zonotrichia albicollis
Rusty Blackbird
Euphagus carolinus
Virginia Opossum (tracks)
Didelphis virginiana
Gray Squirrel (tracks)
Sciurus carolinensis
Raccoon (tracks)
Procyon lotor
White-tailed Deer (tracks, bones)
Odocoileus virginianus
White-tailed Deer (remains)
Odocoileus virginianus

Kings Mountain State Park

York County

July 22, 1995

Kings Mountain is one of the several monadnocks that dot the sandhills and Piedmont of South Carolina. The park consists of over 6000 acres, plus it adjoins Kings Mountain National Military Park's 4000 acres. The trail followed on this trip started on a typical Piedmont ridge near the primitive campground, and then dropped to parallel Clark's Creek which offered a plant community more reminiscent of the mountains. One of the highlights was finding a population of big-leaved storax, *Styrax grandifolia*. It was a hot day which reduced the bird sightings but increased insect observations.

Directions to Kings Mountain State Park: From downtown York, drive north on US 321 for 3.4 miles. Fork left on SC 161 and continue north for 9.8 miles, passing through Bethany. Turn left at the brown state park sign into Kings Mountain State Park; if you come to the North Carolina state line, turn around and go back 0.2 miles.



(Photo by L. Smith)
Wild yam, *Dioscorea villosa*.

Kings Mountain State Park (continued)

July 22, 1995

FLORA

Lichen

Collema subfloccidum
Leptogium cyanescens
Sticta weigeltii
Graphis scripta
Graphis elegans
Bacidia schweinitzii
Bacidia lauracerasii
Lecidea tessellata
Cladonia subtenais subtenais
Cladonia chlorophaea
Cladonia chlorophaea f. intermedia
Cladonia sobolescens
Cladonia coniocraea
Cladonia coniocraea f. subpellucida
Cladonia cristatella cristatella
Cladonia cristatella vestita
Cladonia cylindrica
Cladonia didyma
Cladonia parasitica
Cladonia ramulosa
Pertusaria ostiolata
Pertusaria paratuberculifera
Pertusaria subpernosa
Pertusaria texana
Pertusaria macounii
Lecanora cupressi
Lecanora varia
Lecanora hyocarpa
Ochrolechia africana
Aspicilia laevata
Bulbothrix goebelii
Bulbothrix goebelii f. minor
Candelaria concolor
Hypotrachyna livida
Parmelina auralenta
Parmelina horrescens
Parmelina horrescens asiatica
Parmelina obsessa
Parmelina minarum
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema ultralucens
Flavoparmelia baltimorensis
Flavoparmelia cuperuta
Canoparmelia caroliniana
Punctelia rudecta
Rimelia reticulata
Rimelia cetraria f. nonreticulata
Tuckermanniopsis viridis
Ramalina americana
Utrera cetraria
Utrera mutabilis
Utrera rubicunda
Utrera strigosa
Anaptychia palmulata
Buellia stellulata
Buellia stigmosea
Buellia punctata
Buellia curvifolia

Buellia sp.
Physcia alpicola
Physcia alba
Physcia americana
Physcia halei
Physcia millegrana
Physcia subulifolia
Heterodermia albicans
Heterodermia obscurata
Phaeophyscia ciliata
Phaeophyscia imbricata
Phaeophyscia pusilliloides
Phaeophyscia rubropulchra
Running-pine
Lycopodium flabelliforme
Cinnamon Fern
Osmunda cinnamomea
Royal Fern
Osmunda regalis spectabilis
Bracken
Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
New York Fern
Thelypteris noveboracensis
Short-leaf Pine
Pinus echinata
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Red-cedar
Juniperus virginiana
Cane; Switch Cane
Arundinaria gigantea
Cut Grass
Leersia sp.
Microstegium (grass)
Microstegium vimineum
Greenbrier; Catbrier
Smilax sp.
False Solomon's Seal
Smilacina racemosa
Bellwort
Utricularia sessilifolia
Wild Yam
Disocoria villosa
Downy Rattlesnake-plantain
Goodyera pubescens
Swamp Willow
Salix caroliniana
Eastern Cottonwood
Populus deltoides
Mockernut Hickory
Carya tomentosa
Pignut Hickory
Carya glabra
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
American Chestnut
Castanea dentata

Allegheny Chinquapin
Castanea pumila pumila
White Oak
Quercus alba
Post Oak
Quercus stellata
Rock Chestnut Oak
Quercus prinus
Scarlet Oak
Quercus coccinea
Southern Red Oak; Spanish Oak
Quercus falcata falcata
Black Jack Oak
Quercus marilandica
False Nettle
Boehmeria cylindrica
Heartleaf
Hexastylis arifolia
Hexastylis sp.
Yellowroot
Xanthorhiza simplicissima
Tulip-poplar
Liriodendron tulipifera
Sassafras
Sassafras albidum
Sweet-gum
Liquidambar styraciflua
Red Chokeberry
Sorbus arbutifolia
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Black Locust
Robinia pseudo-acacia
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Virginia-creeper
Parthenocissus quinquefolia
Muscadine; Bullace
Vitis rotundifolia
St.-Andrew's-cross
Hypericum hypericoides
Hypericum stragulum
Primrose-leaved Violet
Viola primulifolia
Black Tupelo; Blackgum
Nyssa sylvatica sylvatica
Flowering Dogwood
Cornus florida
Spotted Wintergreen
Chimaphila maculata
Azalea
Rhododendron sp.
Mountain-laurel
Kalmia latifolia
Dog-hobble
Lencothoe axillaris editorum
Sourwood
Oxydendrum arboreum

Wintergreen
Gaultheria procumbens
Huckleberry
Gaylussacia sp.
Highbush Blueberry
Vaccinium corymbosum
Persimmon
Diospyros virginiana
Horse-sugar; Sweetleaf
Symplocos tinctoria
Bigleaf Snowbell
Syrax grandifolia
White Ash; American Ash
Fraxinus americana americana
Fringe-tree
Chionanthus virginicus
False Foxglove
Aureolaria sp.
Beech-drops
Epifagus virginiana
Partridge-berry
Mitchella repens
Pussy-toes
Antennaria sp.
Sweet Goldenrod
Solidago odora
Rosinweed
Silphium compositum

FAUNA

Spiny-backed Spider
Micrathena gracilis
Orchard Spider
Leucauge venusta
Funnel-web Spider
Agelenopsis naevia
Green Lynx Spider
Peucetia viridans
Jumping Spider
Hentzia sp.
Round-headed Katydid
Amblycorypha floridana
Water-strider
Gerris sp.
Locust Treehopper
Thelma bimaculata
Velvet-ant
Dasyptilula sp.
Great Blue Skimmer
Libellula vibrans
Tiger Beetle
Cicindela unipunctata
Passalus; Bess-beetle
Popillia disjunctus
Click Beetle
Limoniis sp.
Net-winged Beetle
Calopteron reticulatum
Darkling Beetle
Centronopus calcaratus
Alobates pennsylvanicus
Sap-feeding Beetle
Stelidota sp.
Bean Leaf Beetle
Cerotoma trifurcata

Leaf-mining Beetle
Anoplitus inaequalis
Goldbug
Metriana bicolor
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Spring Azure (butterfly)
Colastrina ladon
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Silver-spotted Skipper
Euphydryas editha
Tent Caterpillar
Malacosoma sp.
Eastern Box Turtle
Terrapene carolina
Five-lined or SE S-lined Skink
Eumeces sp.

Yellow-billed Cuckoo
Coccyzus americanus
Acadian Flycatcher
Empidonax virens
American Crow
Corvus brachyrhynchos
Carolina Chickadee
Parus carolinensis
White-breasted Nuthatch
Sitta carolinensis
Carolina Wren
Thryothorus ludovicianus
Solitary Vireo
Vireo solitarius
Red-eyed Vireo
Vireo olivaceus
Gray Squirrel
Sciurus carolinensis
Armadillo (scute)
Chlamydothecium sp.



Red-spotted purple, *Limenitis arthemis astyanax*.

(Photo by R. Linnell)



Georgia

Heggie's Rock Columbia County, Georgia March 28, 1992

Heggie's Rock, a 92-acre site, is called the best of the granitic flat rocks in eastern North America for the remarkable endemic flora restricted to these exposures. While it is similar to Flat Creek Heritage Preserve (Forty-acre Rock) in Lancaster County, SC, it is much less damaged by man. It has the best community zonation of all the granite outcrops. When the plant material in the pools are in bloom it is a lovely sight, and is known as "the rock that blushes". Our visit inspired the following poem from one member.

*White clouds and blue sky
Rare plants, Sedum, Isoetes, Amphianthus, in flower
Nestled in a granitic bower.*

Owned by the The Nature Conservancy of Georgia. Access by permission only. No map or directions provided.

FLORA

Lichen
Lecidea sp.
Cladonia rangiferina
Cladonia caroliniana
Cladonia cristatella
Cladonia cylindrica
Cladonia piedmontensis
Cladonia robbinsii
Parmelia rudecta
Parmotrema perforatum
Parmotrema reticulatum
Parmotrema tinctorum
Pseudoparmelia baltimorensis

Pseudoparmelia caroliniana
Xanthoparmelia conspersa
Ramalina americana
Physcia aioplia
Twisted-hair Spikemoss
Selaginella tortipila
Quillwort
Isoetes melanopoda
Moonwort
Botrychium lunarioides
Hairy Lip Fern
Cheilanthes lanosa
Woolly Lip Fern
Cheilanthes tomentosa

Resurrection Fern
Polypodium polypodioides
Loblolly Pine
Pinus taeda
Short-leaf Pine
Pinus echinata
Eastern Red-cedar
Juniperus virginiana
Spiderwort
Tradescantia hirsuticaulis
Bamboo Smilax
Smilax laurifolia
Greenbrier; Catbrier
Smilax sp.

Bear-grass
Yucca filamentosa
Dog's-tooth-violet
Erythronium americanum
Bellwort
Uvularia sp.
False Garlic
Allium bivalve
Atamasco-lily
Zephyranthes atamasco
Dwarf Iris
Iris verna
Crane-fly Orchid
Tipularia discolor

Heggie's Rock (continued)

March 28, 1992

Wax-myrtle; Southern Bayberry

Myrica cerifera

Pignut Hickory

Carya glabra

Hickory

Carya sp.

Post Oak

Quercus stellata

Rock Chestnut Oak

Quercus prinus

Water Oak

Quercus nigra

Willow Oak

Quercus phellos

Winged Elm

Ulmus alata

Mistletoe

Phoradendron serotinum

Heartleaf

Hexastylis arifolia

Rock-portulaca

Talinum teretifolium

Rock Sandwort; Rockwort

Arenaria uniflora

Mountain Sandwort

Arenaria groenlandica glabra

Redbay

Persea borbonia

Draba

Draba aprica

Arabis

Arabis laevigata

Rock-cress

Arabis laevigata missouriensis

Stonewort

Sedum pusillum

Vernal Pool Stonewort

Sedum smallii

Lepuropetalon

Lepuropetalon spathulatum

Sweet-gum

Liquidambar styraciflua

Cinquefoil; Five-fingers

Potentilla sp.

Blackberry; Brambles

Rubus sp.

Black Cherry; Wild Cherry

Prunus serotina

Fragrant Sumac

Rhus aromatica

American Holly

Ilex opaca

Hearts-a-burstin'-with-love

Enonymus americanus

Red Maple

Acer rubrum

Supple-jack; Rattan-vine

Berchemia scandens

Buckthorn

Rhamnus caroliniana

Muscadine; Bullace

Vitis rotundifolia

St.-Andrew's-cross

Hypericum hypericoides

Hypericum

Hypericum sp.

Violet

Viola sp.

Devil-joint

Opuntia drummondii

Flowering Dogwood

Cornus florida

Spotted Wintergreen

Chimaphila maculata

Sparkleberry

Vaccinium arboreum

Elliott's Blueberry

Vaccinium elliotii

Blueberry

Vaccinium sp.

Persimmon

Diospyros virginiana

Forestiera

Forestiera ligustrina

Fringe-tree

Chionanthus virginicus

Yellow Jessamine

Gelsemium sempervirens

Phacelia

Phacelia dubia georgiana

Beautyberry

Callicarpa americana

Pool-sprite

Amphianthus pusillus

Toadflax

Linaria sp.

Cross Vine

Anisostichus capreolata

Small Bluets

Houstonia missillii

Japanese Honeysuckle

Lonicera japonica

Dwarf Dandelion

Krigia virginica

Mule-ears; Bitterweed

Senecio tomentosus

Green-and-gold

Chrysogonum virginianum australe

Rust

Gymnosporangium sp.

FAUNA

Carolina Locust

Dissosteira carolina

American Bird Grasshopper

Schistocerca americana

Phantom Crane fly

Blattellomorpha clavipes

Predacious Diving Beetle

Hydroporus sp.

Agabus punctatus

Falcate Orangetip

Anthocharis midea

Olive Juniper Hairstreak

Callophrys gryneus gryneus

Common Buckeye (butterfly)

Junonia coenia

Gemmaed Satyr (butterfly)

Cyllopsis gemma

Juvenal's Duskywing

Erynnis juvenalis

Eastern Tent Caterpillar

Malacosoma americanum

Northern Cricket Frog

Acris crepitans

Eastern Box Turtle (shell)

Terrapene carolina

Carolina Anole

Anolis carolinensis

Canada Goose

Branta canadensis

Turkey Vulture

Cathartes aura

Red-shouldered Hawk

Buteo lineatus

Barred Owl (sign)

Strix varia

Downy Woodpecker

Picoides pubescens

Carolina Chickadee

Parus carolinensis

Brown Thrasher

Toxostoma rufum

White-eyed Vireo

Vireo griseus

Yellow-rumped Warbler

Dendroica coronata

Northern Cardinal

Cardinalis cardinalis

White-tailed Deer (tracks, scat, remains)

Odocoileus virginianus

(Photo by A. Ciegler)

Mina Winn and Jan Ciegler study the vernal pool stonewort, *Sedum smallii*, found only on monadnocks.

(Photo by L. Smith)

Atamasco-lily, *Zephyranthes atamasco*.

Black Rock Mountain State Park

Rabun County, Georgia

May 21, 1994

Perfect weather gave access to most of the best parts of this state park atop Black Rock Mountain in extreme northeast Georgia. On the north side of the mountain are some sheltered areas that have developed some uncommon plant and animal communities. The mountain species of birds nesting in the park greeted the early morning risers with a great serenade, and the nest building led to close looks at thrushes and scarlet tanagers that South Carolinians do not get to see frequently. Another unusual observation was a female giant ichneumon wasp, with her four-inch long ovipositor. She was hunting for signs of her prey, another kind of wasp known as a hornail. Wild turkeys were calmly exploring the area just off the trail. On Sunday the group explored the area around a small pond, slightly lower on the mountain than Saturday's destination. Beetles, dragonflies and butterflies were especially numerous.

Directions to Black Rock Mountain State Park: From Westminster, take US 76 northwest to Clayton, GA, about 26 miles. Turn right (north) on US 23/US 441, and go 4 miles through Clayton to Mountain City. Look for the sign to Black Rock Mountain State Park, turn left, and follow the winding mountain road about 3 miles to the top.



FLORA

Lichen

Collema subfalcidum
Leptogium cyanescens
Pannaria tavarezi
Pannaria sp.
Peltigera canina
Peltigera polydactyla
Sticta weigelii
Graphis scripta
Bacidia schweinitzii
Leptogium austroamericanum
Porpidia albocerulea
Bostrychia fungoides
Cladonia rangiferina
Cladonia bacillaris
Cladonia chlorophaea
Cladonia sobolescens
Cladonia coniocraea
Cladonia cristatella
Cladonia didyma
Cladonia furcata
Cladonia polycarpoides
Umbilicaria mammatula
Pernassaria propinqua
Pernassaria texana
Lecanora cupressi

Lecanora pallida
Lecanora allophana
Ochrolechia africana
Ochrolechia mexicana
Tephromela atra
Bulbothrix goebellii
Candelaria concolor
Hypotrachyna formosana
Hypotrachyna livida
Parmelina minarum
Parmotrema austrosinense
Parmotrema crinitum
Parmotrema hypotremum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema stupens
Parmotrema tinctorum
Flavoparmelia baltimorensis
Pseudovernia consocians
Flavoparmelia baltimorensis
Flavoparmelia caperata
Canoparmelia caroliniana
Punctelia rufecta
Melanella halei
Rimelia reticulata
Tuckermannopsis ciliaris
Tuckermannopsis fendleri
Tuckermannopsis oakesiana

Ramalina americana
Usnea rubicunda
Usnea strigosa
Usnea trichodea
Buellia sp.
Physcia americana
Physcia halei
Physcia millegrana
Heterodermia albicans
Heterodermia obscurata
Heterodermia speciosa
Heterodermia leucomelas
Heterodermia caurentiana
Phaeophyscia ciliata
Phaeophyscia imbricata
Rinodina sp.
Physconia deterosa
Physcia enteroxantha
Physciella cloanthia
Xanthoria candelaria
Running-pine
Lycopodium flabelliforme
Rattlesnake Grape Fern
Borychium virginianum
Cinnamon Fern
Osmunda cinnamomea
Hay-scented Fern
Dennstaedtia punctilobula

Bracken

Pteridium aquilinum
Southern Lady Fern
Athyrium asplenoides
Silvery Splenwort
Athyrium thelypteroides
Marginal Shield Fern
Dryopteris marginalis
Christmas Fern
Polystichum acrostichoides
Broad Beech-Fern
Thelypteris hexagonaptera
New York Fern
Thelypteris noveboracensis
Rock Cap Fern
Polypodium virginianum
White Pine
Pinus strobus
Short-leaf Pine
Pinus echinata
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Hemlock
Tsuga canadensis
Eastern Red-cedar
Juniperus virginiana
Orchard Grass
Dactylis glomerata

Black Rock Mountain State Park (continued)

May 21, 1994

Jack-in-the-pulpit <i>Arisaema triphyllum</i>	Beech <i>Fagus grandifolia</i>	Indian-physic <i>Gillenia trifoliata</i>	Pine-sap <i>Monotropa hypopitys</i>
Spiderwort <i>Tradescantia virginiana</i>	American Chestnut <i>Castanea dentata</i>	Goat's-beard <i>Aruncus dioicus</i>	Rosebay; Great Laurel <i>Rhododendron maximum</i>
Woodrush <i>Luzula acuminata</i>	White Oak <i>Quercus alba</i>	Downy Serviceberry <i>Amelanchier arborea</i>	Purple Laurel <i>Rhododendron catawbiense</i>
Carrión-flower <i>Smilax herbacea</i>	Rock Chestnut Oak <i>Quercus prinus</i>	Black Cherry; Wild Cherry <i>Prunus serotina</i>	Mountain-laurel <i>Kalmia latifolia</i>
Sawbrier; Greenbrier <i>Smilax glauca</i>	Red Oak <i>Quercus rubra</i>	Naked-flower Tick-trefoil <i>Desmodium nudiflorum</i>	Fetterbush <i>Leucothoe recurva</i>
Little-sweet-Betsy <i>Trillium cuneatum</i>	Black Oak <i>Quercus velutina</i>	Black Locust <i>Robinia pseudo-acacia</i>	Sourwood <i>Oxydendrum arboreum</i>
Wake-robin <i>Trillium erectum</i>	Scarlet Oak <i>Quercus coccinea</i>	Wood Vetch <i>Vicia caroliniana</i>	Trailing-arbutus <i>Epigaea repens</i>
Catsby's Trillium <i>Trillium catesbaei</i>	Buffalo-nut <i>Pyrularia pubera</i>	Hog-peanut <i>Amphicarpa bracteata</i>	Huckleberry <i>Gaylussacia ursina</i>
Vasey's Trillium <i>Trillium vaseyi</i>	Giant Chickweed <i>Stellaria pubera</i>	Wood-sorrel <i>Oxalis sp.</i>	Deerberry; Squaw-huckleberry <i>Vaccinium stamineum</i>
Indian Cucumber-root <i>Medeola virginiana</i>	Fire Pink <i>Silene virginica</i>	Poison-ivy <i>Rhus radicans</i>	Low-bush Blueberry <i>Vaccinium vacillans</i>
Speckled Wood-lily <i>Clintonia umbellulata</i>	Yellowroot <i>Xanthorhiza simplicissima</i>	American Holly <i>Ilex opaca</i>	Highbush Blueberry <i>Vaccinium corymbosum</i>
False Solomon's Seal <i>Smilacina racemosa</i>	Monkshood <i>Aconitum uncinatum</i>	Hearts-a-burstin'-with-love <i>Euonymus americanus</i>	Whorled Loosestrife <i>Lysimachia quadrifolia</i>
Yellow Mandarin <i>Disporum lanuginosum</i>	Baneberry <i>Actaea pachypoda</i>	Striped Maple <i>Acer pensylvanicum</i>	Horse-sugar; Sweetleaf <i>Symplocos tinctoria</i>
Solomon's-seal <i>Polygonatum biflorum</i>	Black Cohosh <i>Cimicifuga racemosa</i>	Red Maple <i>Acer rubrum</i>	Carolina Silverbell <i>Halesia carolina</i>
Fly-poison <i>Amanthium muscaetoxicum</i>	Early Meadow-rue <i>Thalictrum dioicum</i>	Yellow Buckeye <i>Aesculus octandra</i>	Green Ash <i>Fraxinus pennsylvanica</i>
False Hellebore <i>Veratrum parviflorum</i>	Buttercup <i>Ranunculus hispidus</i>	Spotted Touch-me-not <i>Impatiens capensis</i>	Chinese Privet <i>Ligustrum sinense</i>
Featherbells <i>Sternanthium granineum</i>	Blue Cohosh; Papoose-root <i>Caulophyllum thalictroides</i>	New-Jersey-tea <i>Ceanothus americanus</i>	Indian-hemp; Dogbane <i>Apocynum sp.</i>
Bellwort <i>Uvularia perfoliata</i>	Umbrella-leaf <i>Diphylleia cymosa</i>	Virginia-creeper <i>Parthenocissus quinquefolia</i>	Poke Milkweed <i>Asclepias exaltata</i>
Wild Yam <i>Dioscorea villosa</i>	Mayapple <i>Podophyllum peltatum</i>	Muscadine; Bullace <i>Vitis rotundifolia</i>	Milkweed <i>Asclepias quadrifolia</i>
Yellow Star-grass <i>Hypoxis hirsuta</i>	Tulip-poplar <i>Liriodendron tulipifera</i>	Basswood; Linden <i>Tilia americana</i>	Horse-balm <i>Collinsonia canadensis</i>
Crested Iris <i>Iris cristata</i>	Umbrella-tree <i>Magnolia fraseri</i>	Wood Violet <i>Viola palmata triloba</i>	False Foxglove <i>Aureolaria flava</i>
Pink Lady's-slipper <i>Cypripedium acaule</i>	Sweet-shrub; Carolina-allspice <i>Calycanthus floridus</i>	Round-leaved Yellow Violet <i>Viola rotundifolia</i>	Squaw-root <i>Conopholis americana</i>
Yellow Lady's-slipper <i>Cypripedium calceolus</i>	Sassafras <i>Sassafras albidum</i>	Halberd-leaved Violet <i>Viola hastata</i>	Bluets <i>Houstonia purpurea</i>
Downy Rattlesnake-plantain <i>Goodyera pubescens</i>	Spicebush <i>Lindera benzoin</i>	Canada Violet <i>Viola canadensis</i>	Maple-leaf Viburnum <i>Viburnum acerifolium</i>
Black Walnut <i>Juglans nigra</i>	Bloodroot <i>Sanguinaria canadensis</i>	Spikenard <i>Aralia racemosa</i>	Elderberry <i>Sambucus sp.</i>
Mockernut Hickory <i>Carya tomentosa</i>	Wild Hydrangea <i>Hydrangea arborescens</i>	Meadow Parsnip <i>Thaspium barbinode</i>	Rattlesnake-weed <i>Hieracium venosum</i>
Pignut Hickory <i>Carya glabra</i>	Witch-hazel <i>Hamamelis virginiana</i>	Cow-bane <i>Oxypeltis rigidior</i>	Pale Indian-plantain <i>Cacalia atriplicifolia</i>
Hickory <i>Carya sp.</i>	Wild Strawberry <i>Fragaria virginiana</i>	Black Tupelo; Blackgum <i>Nyssa sylvatica sylvatica</i>	Small's Ragwort <i>Senecio smallii</i>
Hazel-nut <i>Corylus americana</i>	Five-fingers <i>Potentilla canadensis</i>	Flowering Dogwood <i>Cornus florida</i>	Ragwort <i>Senecio aureus</i>
Cherry Birch <i>Betula lenta</i>	Multiflora Rose <i>Rosa multiflora</i>	Alternately-leaved Dogwood <i>Cornus alternifolia</i>	Pussy-toes <i>Antennaria plantaginifolia</i>
		Mountain Sweet Pepperbush <i>Clethra acuminata</i>	Robin's-plantain <i>Erigeron phillicellus</i>
		Spotted Wintergreen <i>Chimaphila maculata</i>	Rosinweed <i>Silphium compositum</i>
		Indian-pipe <i>Monotropa uniflora</i>	Azalea Pinkster Apple <i>Exobasidium vaccinii</i>

FAUNA

Giant Forest Snail
Mesodon normalis
Long-jawed Orb-weaver
Tetragnatha laboriosa
Yellow Crab Spider
Misumenoides formosipes
Linden Mite Gall Mite
Eriophyes abnormis
Sulfur-winged Grasshopper
Arphia sulphurea
Spur-throated Grasshopper
Melanoplus sp.
Witch Hazel Cone Gall (aphid)
Hormaphys hanamelidis
Pubescent Bract Hickory Gall
Phyllostera globosa
Reniform Midrib Carya Gall
Phyllostera caryacera
Giant Ichneumon
Megarhyssa sp.
Spongy Oak-apple (gall wasp)
Amphibolips confluentis
Nipped Oak-apple (gall wasp)
Amphibolips cookii
Chestnut Oak Midrib Tumor Gall
Plagiostrobus tumeficus
Bald-faced Hornet
Vespa maculata
Maple Leaf Spot Gall (midge)
Cecidomyia ocellaris
Linden Wart Gall (midge)
Cecidomyia verrucicola
Chestnut Bud Gall (midge)
Rhopalomyia castaneae
Phantom Crane-fly
Bitacomorpha clavipes
Robber Fly
Asilidae
Common Green Darner
Anax junius
Clubtail Dragonfly
Gomphus sp.
Banded Pennant (dragonfly)
Calithemis fasciata
Corporal Skimmer
Libellula exusta deplanata
Common Whitetail (dragonfly)
Libellula lydia
Blackwater Bluet (damselfly)
Enallagma weewa
Scarier; Ground Beetle
Calosoma calidum
Notch-mouthed Ground Beetle
Dicaelus dilatatus
Predacious Diving Beetle
Hydroporus niger
Water Scavenger Beetle
Traptisternus lateralis nimbanus
Enochrus ochraceus
Dung Beetle
Onthophagus orpheus orpheus
June Beetle
Phyllorhiza grandis
Phyllorhiza sp.
Chafer; Scarab Beetle
Dichelonyx elongata
Rhino-ceros Beetle
Xyloryctes jamaicensis
Branch-and-leaf Buprestid
Agryllus politus
Metallic Wood-boring Beetle
Taphrocerus sp.
Striped Click Beetle
Ctenicera sp.
Soldier Beetle
Chauliognathus marginatus
Podabrus basilaris
Cantharis sp.
Malthodes curvatus
Checkered Beetle
Ecnocerus thoracicus
Soft-winged Flower Beetle
Attalus sp.
Tumbling Flower Beetle
Mordella sp.
Darkling Beetle
Tarpeia micans
Long-jointed Bark Beetle
Arthromacra aenea
False Darkling Beetle
Anaspis sp.
False Ant-like Flower Beetle
Pedilus collaris
Silken Fungus Beetle
Henoticus sp.
Lizard Beetle
Languria mozaridi
Yellow-spotted Lady Beetle
Brachycanatha ursina
Lady Beetle
Coleomegilla fuscilabris
Seven-spotted Lady Beetle
Coccinella septempunctata
Black-spotted Lady Beetle
Anatis 15-punctata
Flower Longhorn Beetle
Leptura lineola
Anoploclera mutabilis
Anoploclera sp.
Gaurotes cyanipennis
Round-necked Longhorn Beetle
Tillolochytus geminata
Flat-faced Longhorn Beetle
Goes oculata
Stem Borer; Longhorn Beetle
Obrexia basalis
Punctate Leaf Beetle
Orsodacne atra
Syneta sp.
Cylindrical Leaf Beetle
Pachybrachis sp.
Oval Leaf Beetle
Nodonota tristis
Striped Cucumber Beetle
Acalymma vittatum
Skeletonizing Leaf Beetle
Luperodes cyanellus
Kalmia Flea Beetle
Altica viridana
Eggplant Flea Beetle
Eptithrix fuscicula

Leaf-mining Beetle
Anoplitis inaequalis
Pear-shaped Weevil
Apion emacipipes
Apion sp.
Zebra Swallowtail
Eurytides marcellus
Eastern Tiger Swallowtail
Papilio glaucus
Spicebush Swallowtail
Papilio troilus
Pearl Crescent
Phyciodes tharos
Mourning Cloak
Nymphalis antiopa
Common Buckeye (butterfly)
Junonia coenia
Red-spotted Purple (butterfly)
Limenitis arthemis astyanax
Monarch (butterfly)
Danaus plexippus
Silver-spotted Skipper
Ergasilus clausus
Duskywing Skipper
Erynnis sp.
Forest Tent Caterpillar
Malacosoma disstria
Datana Moth Caterpillar
Datana sp.
Black & Yellow Lichen Moth
Lycophotia pholis
Eight-spotted Forester Moth
Allypia octomaculata
Slimy Salamander
Plethodon glutinosus
Eastern Box Turtle
Terrapene carolina
Turkey Vulture
Cathartes aura
Wild Turkey
Meleagris gallopavo
Barred Owl
Sirix varia
Northern Flicker
Colaptes auratus
Great Crested Flycatcher
Myiarchus cinerascens
Eastern Wood-pewee
Contopus virens
Eastern Phoebe
Sayornis phoebe
Blue Jay
Cyanocitta cristata
American Crow
Corvus brachyrhynchos
Carolina Chickadee
Parus carolinensis
Wood Thrush
Hylocichla ustulata
Veery
Catherpes fuscescens
American Robin
Turdus migratorius
Solitary Vireo
Vireo solitarius
Red-eyed Vireo
Vireo olivaceus
Black-and-white Warbler
Mniotilta varia
Black-throated Blue Warbler
Dendroica caerulescens
Hooded Warbler
Wilsonia citrina
Ovenbird
Seiurus aurocapillus
Indigo Bunting
Passerina cyanea
Dark-eyed Junco
Junco hyemalis
Scarlet Tanager
Piranga olivacea
Eastern Cottontail
Sylvilagus floridanus

Giant ichneumon, *Megarhyssa sp.*

(Photo by L. Smith)



North Carolina

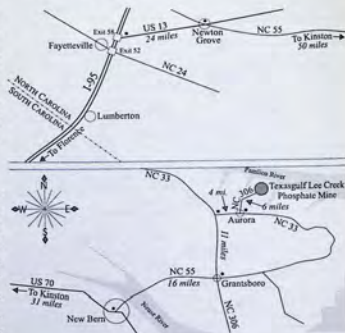
Texasgulf Lee Creek Phosphate Mine Aurora, Beaufort County, North Carolina October 15, 1988

This is a huge open pit mine operating in a large deposit of limestone, minerals and marine fossils. The array of fossils exposed is astonishing. The fossils are lying on the surface, waiting to be picked up. Some SCAN members with huge buckets and sacks tried to carry off all they saw, but were eminently unsuccessful, but very satisfied! Texasgulf controlled the access to the site, but provided the group with a bus and driver for the day! Such kind hosting was greatly appreciated.

Access by permission only

Directions to Texasgulf Lee Creek Phosphate Mine:

From Florence, take I-95 north to North Carolina, passing Lumberton. At Exit 58 just past Fayetteville, turn east onto US 13 and drive 24 miles to Newton Grove. Pick up NC 55 east to Kinston, approximately 50 miles; bypass Kinston on US 70 and follow that east 31 miles to New Bern. Travel down Broad Street east and cross the Neuse River on NC 55. At the yellow flashing light in Grantsboro, 16 miles from the center of New Bern, turn left (north) onto NC 306. Follow NC 306 for 11 miles to the north, turn right for 4 miles east to Aurora, then turn left about 6 miles to the quarry entrance on the left.



FOSSILS

Colonial Coral

Septastrea crassa

Scallop

Chesapecten jeffersonius

jeffersonius

Chesapecten jeffersonius

septenarius

Chesapecten madisonius

Argopecten boreus

Placopecten clintonius

Marine Snail

Turritella sp.

Limpet

Crucibulum Lawrencei

Whelk

Buycyon spiratus

Volute

Volutifusus typus

Southern Moon Snail

Polinices duplicatus

Olive

Oliva carolinensis

Cone Shell

Comas adversarius

Bittersweet Clam

Glycymeris americana

Ark

Noetia limula

Oyster

Crassostrea virginiana

Conradostrea lawrencei

Clam

Ensis directus

Mercenaria mercenaria

Chione

Chione grus

Broad-ribbed Cardita

Cardita arata

Ecphora

Ecphora quadricostata

Pterorhynchus

Pterorhynchus conradi

Philippi's Nutmeg Snail

Trigonostoma tenera

Leminitina

Leminitina sp.

Shark

Hemipristis terra

Shark (tooth)

Carcharodon megalodon



(Photo by L. Gonzalez)

Hard hats were the order of the day.

Standing Indian Area (Nantahala National Forest) Macon County, North Carolina August 27-28, 1988

This overnight camping trip took SCAN members higher into the Appalachian Mountains than can be done within the borders of South Carolina. The Standing Indian area is beautiful, with a classic mountain flora and fauna. The area contains one of the largest tulip-poplars in the eastern U. S. as well as unique salamanders and other species. Plentiful rain gave a good crop of mushrooms. Habitats explored were wooded hillsides, an open meadow, mountain creek floodplain, and the rock bed of the creek.

Directions to Standing Indian Area: From Westminster, SC, take US 76 about 28 miles west to Clayton, Ga. Turn right (north) onto US 23/US 441, and drive approximately 22 miles to the outskirts of Franklin, N.C. Turn west onto US 64 and drive 12 miles: go past the scenic lookout, then over the mountain pass, and watch for a sign 1-2 miles past the mountain pass that says "Standing Indian Campground". Turn left onto Old Route 64, go 2 miles, turn right at another "Standing Indian" sign, and go 2 miles into the campground.



FLORA

Shining Clubmoss

Lycopodium lucidulum
Groundpine

Rattlesnake Grape Fern
Botrychium virginianum
Cinnamon Fern

Osmunda cinnamomea
Maidenhair Fern

Adiantum pedatum
Southern Lady Fern

Athyrium asplenoides
Marginal Shield Fern

Dryopteris marginalis
Mountain Wood Fern

Dryopteris campyloptera
Christmas Fern

Polystichum acrostichoides
Broad Beech-Fern

Thelypteris hexagonoptera
New York Fern

Thelypteris noveboracensis
Sensitive Fern

Oncoclea sensibilis
Rock Cap Fern

Polypodium virginianum
Eastern Hemlock

Tunga canadensis
Green-dragon

Arisaema dracontium
Jack-in-the-pulpit

Arisaema triphyllum

Indian Cucumber-root

Medeola virginiana
Speckled Wood-lily

Clintonia umbellulata
False Solomon's Seal

Smilacina racemosa
False Lily-of-the-valley

Maianthemum canadense
Yellow Mandarin

Disporum lanuginosum
Solomon's-seal

Polygonatum biflorum
False Hellebore

Verrucum sp.
Turk's-cap Lily

Lilium superbum
Showy Orchis

Orchis spectabilis
Yellow Fringed Orchid

Habenaria ciliaris
Three Birds Orchid

Triphora trianthophora
Downy Rattlesnake-plantain

Goodyera pubescens
Tag Alder

Alnus serrulata
Cherry Birch

Betula lenta
Beech

Fagus grandifolia
American Chestnut

Castanea dentata
White Oak

Quercus alba

Rock Chestnut Oak

Quercus prinus
Red Oak

Quercus rubra
Clearweed

Pilea pumila
Dutchman's-pipe

Aristolochia macrophylla
Tearthumb

Polygonum sagittatum
Starry Camellion

Silene stellata
Mountain Bughane; Cohosh

Cimicifuga americana
Virgin's-bower

Clematis virginiana
Liverleaf

Hepatica acutiloba
Umbrella-leaf

Diphylleia cymosa
Tulip-poplar

Liriodendron tulipifera
Umbrella-tree

Magnolia fraseri
Sweet-shrub; Carolina-allspice

Calyculanthus floridus
Sassafras

Sassafras albidum
Spicebush

Lindera benzoin
Bloodroot

Sanguinaria canadensis
Stonewort

Sedum ternatum

Wild Hydrangea

Hydrangea arborescens
Grass-of-Parnassus

Parnassia asarifolia
False Goatsbeard

Astilbe bitemata
Witch-hazel

Hamamelis virginiana
American Sycamore

Platanus occidentalis
Flowering Raspberry

Rubus odoratus
Cocklebur

Agrinonia gryposepala
Common Apple

Malus pumila
Downy Serviceberry

Amelanchier arborea
Black Cherry; Wild Cherry

Prunus serotina
Yellowwood

Cladradus lutea
Bush-clover

Lespedeza intermedia
Black Locust

Robinia pseudo-acacia
Hog-peanut

Amphicarpa bracteata
Striped Maple

Acer pensylvanicum
Red Maple

Acer rubrum
Sugar Maple; Hard Maple

Acer saccharum

Standing Indian Area (continued)

August 27-28, 1988

Yellow Buckeye
Asclepias octandra
Jewel-weed; Touch-me-not
Impatiens pallida
Spotted Touch-me-not
Impatiens capensis
Basswood; Linden
Tilia sp.
Sweet White Violet
Viola blanda
Bronze Willow-herb
Epilobium coloratum
Wild Sarsaparilla
Aralia nudicaulis
Sweet Chervil
Osmorhiza longistylis
Angelica
Angelica sp.
Cow-bane
Oxypolis rigidior
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Alternate-leaved Dogwood
Cornus alternifolia
Mountain Sweet Pepperbush
Clethra acuminata
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora
Rosebay; Great Laurel
Rhododendron maximum
Mountain-laurel
Kalmia latifolia
Dog-hobble
Leucothoe axillaris
Galax; Galaxy; Coltsfoot
Galax aphylla
Carolina Silverbell
Halesia carolina
Dodder
Cuscuta sp.
Phlox
Phlox sp.
Lop-seed
Phyma leptostachya
Carpenterweed
Prunella vulgaris
Bee-balm; Bergamot
Monarda didyma
Bee-balm
Monarda clinopodia
Lemon Mint
Monarda citriodora
Horse-balm
Collinsonia canadensis
Turtleheads
Chelone obliqua
Partridge-berry
Mitchella repens
Maple-leaf Viburnum
Viburnum acerifolium

American Elderberry
Sambucus canadensis
Indian-tobacco
Labelia inflata
White Snakeroot
Eupatorium rugosum
Goldenrod
Solidago glomerata
Sneeze-weed
Helenium autumnale
Green Stain
Chlorociboria aeruginascens
Scaly Vase Chanterelle
Gomphus floccosus
White Worm Coral
Clavaria vermicularis
Violet-branched Coral
Clavulina amethystina
Flat-topped Coral
Clavariadelphus truncatus
Yellow-tipped Coral
Ramaria formosa
Sweet Tooth
Dentinum repandum
Violet-toothed Polypore
Trichaptum biformis
American Caesar's Mushroom
Amanita caesarea
Booted Amanita
Amanita cothurnata
Fly Agaric
Amanita muscaria
Destroying-angel
Amanita virosa
Shaggy-stalked Bolete
Boletellus betula
Old-man-of-the-woods
Strobilomyces floccopus
Chicken-fat Suillus
Suillus americanus
Silvery-violet Cort
Cortinarius albivittatus
Violet Cort
Cortinarius violaceus
Yellow Unicorn Entoloma
Entoloma murrillii
Salmon Unicorn Entoloma
Entoloma salmonum
Scarlet Wax-cap
Hygrophorus coccineus
Buff Fishy Milky
Lactarius luteolus
Peck's Milky
Lactarius peckii
Emetic Russula
Russula emetica
Wood Clitocybe
Clitocybe ectypoides
Violet Collybia
Collybia iocyphala
Zoned-cap Collybia
Crinipellis zonata
Common Laccaria
Laccaria laccata

Train-wrecker
Lentinus lepideus
Angel's-wings
Pleurocybella porrigens
Gem-studded Puffball
Lycoperdon perlatum
Splash-cups
Cynophus striatus
Pigskin Poison Puffball
Scleroderma citrinum
Stalked Puffball-in-aspic
Calostoma cinnabarina

FAUNA

Witch Hazel Cone Gall (aphid)
Hormaphis hamamelidis
Aphodiine Dung Beetle
Aphodius lividus
Asiatic Garden Beetle
Maladera castanea
Japanese Beetle
Papillia japonica
Toed-winged Beetle
Philodactyla sericollis
Soldier Beetle
Chauliognathus pennsylvanicus
Blister Beetle
Meloe sp.
Darkling Beetle
Tarpeia micans
False Darkling Beetle
Anaspis sp.
Sap-feeding Beetle
Eparaea sp.
Pleasing Fungus Beetle
Triplax thoracica
Locust Borer; Longhorn Beetle
Megacyllene robiniae

Flea Beetle
Altica sp.
Eastern Tiger Swallowtail
Papilio glaucus
Spring Azure (butterfly)
Lycenopsis argiohis
Great Spangled Fritillary
Speyeria cybele
Northern Dusky Salamander
Desmognathus fuscus
American Toad
Bufo americanus
Ruffed Grouse
Bonasa umbellus
Long-eared Owl
Asio otus
Barred Owl
Sirix varia
Blue Jay
Cyanocitta cristata
Common Raven
Corvus corax
Tufted Titmouse
Parus bicolor
Carolina Chickadee
Parus carolinensis
Blue-gray Gnatcatcher
Polioptila caerulea
Dark-eyed Junco
Junco hyemalis
Eastern Chipmunk
Tamias striatus
Woodchuck; Groundhog
Marmota monax
Red Squirrel
Tamiasciurus hudsonicus
Red Fox
Vulpes vulpes
White-tailed Deer
Odocoileus virginianus



(Photo by L. Smith)

Yellow fringed orchid, *Habenaria ciliaris*.

Pearson's Falls and Big Bradley Falls

Polk County, North Carolina

May 12, 1990

This narrow valley leading to the lovely ninety-foot Pearson's Falls at the upper end contains a spectacular collection of spring ephemeral wildflowers. Almost all the mountain species are here, in large numbers. The access is gentle and paved. The trees are magnificent examples, too, when one remembers to take time to look up. Migrating birds are often found in high numbers at the height of the spring bloom. This property is privately owned by a local non-profit organization that collects a small fee and limits access to times when an attendant is on duty. The road into this sanctuary is breathtaking when the trillium are in bloom.

Directions to Pearson's Falls: From Spartanburg, take I-26 north into North Carolina. At the first exit after crossing the state line (Exit 36, Tryon/Columbus), turn onto NC 108 and head west into Tryon. Turn right onto US 176 toward Saluda and go a distance of 8.4 miles from the interstate. Turn left into a small street marked by a small sign for Pearson's Falls. Follow the road a mile or two to the entrance.



Big Bradley Falls is a high narrow falls dropping abruptly down its mountainside. The trail to the overlook is mostly old roadbed that crosses the creek at a flat but somewhat deep ford. The agile can rock-hop at low water levels. While the plant material and wildlife are typical of the mountain habitat, near the beginning of the trail one passes through an interesting high mountain meadow that looks like it ought to offer interesting birding earlier in the day that SCAN visited.

Big Bradley Falls is owned by the North Carolina Wildlife Resource Commission.

Directions to Big Bradley Falls: From Spartanburg, take I-26 north into North Carolina. At Exit 28, marked for Saluda, turn right (away from Saluda) onto Holbert Cove Road. The paved road winds past houses for 2.2 miles, then continues downhill on a narrow gravel road for an additional 1.1 mile. When the road levels out and crosses a creek, park on the right on either side of the creek. The trail leading to Big Bradley Falls begins just before the bridge at a yellow gate marked "Closed to Vehicles".

FLORA

Lichen

Coccocarpia erythroxyl
Lobaria quercizans
Cladonia polycarpoides
Hypogymnia krogiae
Hypotrachyna livida
Parmelia galbana
Parmelia minarum
Parmeliopsis subumbigula
Parmotrema cetratum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema tinctorum
Pseudovermia consocians
Pseudoparmelia caperata
Pseudoparmelia caroliniana
Xanthoparmelia subnigra
Punctelia subrudecta

Imshaugia placodioides
Rimelia reticulata
Tuckermannopsis aurea
Usnea strigosa
Physcia alipolia
Heterodermia granulifera
Heterodermia hypoleuca
Rattlesnake Grape Fern
Botrychium virginianum
Maidenhair Fern
Adiantum pedatum
Southern Lady Fern
Athyrium asplenoides
Silvery Spleenwort
Athyrium thlypteroides
Spreading Bladder Fern
Cystopteris protrusa
Christmas Fern
Polystichum acrostichoides

Broad Beech-Fern
Thelypteris hexagonoptera
New York Fern
Thelypteris noveboracensis
Sensitive Fern
Oncoclea sensibilis
Walking Fern
Asplenium rhizophyllum
Ebony Spleenwort
Asplenium platyneuron
Rock Cap Fern
Polypodium virginianum
White Pine
Pinus strobus
Virginia Pine; Scrub Pine
Pinus virginiana
Eastern Hemlock
Tsuga canadensis
Eastern Red-cedar
Juniperus virginiana

Cane; Switch Cane
Arundinaria gigantea
Mellic Grass
Melica nutica
Sedge
Carex retrofracta
Carex communis
Carex plantaginifolia
Carex digitalis
Carex laxiflora
Carex virens
Jack-in-the-pulpit
Arisaema triphyllum
Spiderwort
Tradescantia virginiana
Carrión-flower
Smilax herbacea
Sawbrier; Greenbrier
Smilax glauca

Pearson's Falls and Big Bradley Falls May 12, 1990

Little-sweet-Betsy
Trillium cuneatum
Wake-robin; Red Trillium
Trillium erectum vaseyi
Indian Cucumber-root
Medeola virginiana
Speckled Wood-lily
Clintonia umbellulata
False Solomon's Seal
Smilacina racemosa
Yellow Mandarin
Disporum lanuginosum
Solomon's-seal
Polygonatum biflorum
Blazing-star
Chamaelirium luteum
Wild Yam
Disocoria villosa
Crested Iris
Iris cristata
Shoey Orchis
Orchis spectabilis
Downy Rattlesnake-plantain
Goodyera pubescens
Crane-fly Orchid
Tipularia discolor
Puttyroot; Adam-and-Eve
Asplenium hymale
Butternut
Juglans cinerea
Shagbark Hickory
Carya ovata
Cherry Birch
Betula lenta
American Hornbeam; Ironwood
Carpinus caroliniana
Beech
Fagus grandifolia
White Oak
Quercus alba
Rock Chestnut Oak
Quercus prinus
Red Oak
Quercus rubra
Slippery Elm
Ulmus rubra
Wood-nettle
Laportea canadensis
Virginia Snakeroot
Aristolochia serpentaria
Wild Ginger
Asarum canadense
Jumpseed
Tovara virginiana
Giant Chickweed
Stellaria pubera
Yellowroot
Xanthorhiza simplicissima
Black Cohosh
Cimicifuga racemosa
Meadow-rue
Thalictrum clavatum

Hooked Buttercup
Ranunculus recurvatus
Liverleaf
Hepatica acutiloba
Blue Cohosh; Papoose-root
Caulophyllum thalictroides
Mayapple
Podophyllum peltatum
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Cucumber-tree
Magnolia acuminata
Sweet-shrub; Carolina-allspice
Calyculanthus floridus
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Bloodroot
Sanguinaria canadensis
Bitter Cress
Cardamine clematidis
Mock-orange
Philadelphus inodorus
Wild Hydrangea
Hydrangea arborescens
False Goatsbeard
Asilbe bitermata
Golden Saxifrage
Chrysosplenium americanum
Alumroot
Heuchera americana
Foamflower
Tiarella cordifolia
Saxifrage
Saxifraga micranthidifolia
Witch-hazel
Hamamelis virginiana
Wineberry
Rubus phoenicolasius
Indian-physic
Gillenia trifoliata
Downy Serviceberry
Amelanchier arborea
Black Cherry; Wild Cherry
Prunus serotina
Redbud; Judas-tree
Cercis canadensis
Wild Indigo
Baptisia tinctoria
Black Locust
Robinia pseudo-acacia
Hog-peanut
Amphicarpus bracteata
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Mountain Holly
Ilex ambigua montana

Hearts-a-burstin'-with-love
Euonymus americanus
Red Maple
Acer rubrum
Sugar Maple; Hard Maple
Acer saccharum
Yellow Buckeye
Aesculus octandra
Spotted Touch-me-not
Impatiens capensis
Virginia-creeper
Parthenocissus quinquefolia
Basswood; Linden
Tilia heterophylla
St.-Andrew's-cross
Hypericum hypericoides
Green Violet
Hybanthus concolor
Round-leaved Yellow Violet
Viola rotundifolia
Halberd-leaved Violet
Viola hastata
Canada Violet
Viola canadensis
Spikenard
Aralia racemosa
Sanicle; Snakeroot
Sanicula canadensis
Sweet Cicely; Anise-root
Osmorhiza claytonii
Meadow Parsnip
Zizia trifoliata
Thaspium trifoliatum
Blackgum
Nyssa sylvatica
Flowering Dogwood
Cornus florida
Alternate-leaved Dogwood
Cornus alternifolia
Spotted Wintergreen
Chimaphila maculata
Rosebay; Great Laurel
Rhododendron maximum
Carolina-laurel
Rhododendron minus
Flame Azalea
Rhododendron calendulaceum
Mountain-laurel
Kalmia latifolia

Dog-hobble
Leucothoe axillaris
Sourwood
Oxydendrum arboreum
Trailing-arbutus
Epigaea repens
Deerberry; Squaw-huckleberry
Vaccinium stamineum
Oconee-belly; Shortia
Shortia galacifolia
Persimmon
Diospyros virginiana
Carolina Silverbell
Halesia carolina
American Ash; White Ash
Fraxinus americana
Bindweed
Calyptegia sericata
Waterleaf
Hydrophyllum canadense
Lyre-leaved Sage
Salvia lyrata
False Foxglove
Aureolaria sp.
Squaw-root
Conopholis americana
Partridge-berry
Mitchella repens
Bluets
Houstonia purpurea
Maple-leaf Viburnum
Viburnum acerifolium
American Elderberry
Sambucus canadensis
Venus'-looking-glass
Specularia perfoliata
Rattlesnake-root
Prenanthes altissima
Rattlesnake-weed
Hieracium venosum
Pussy-toes
Antennaria plantaginifolia
Robin's-plantain
Erigeron pulchellus
Bearsfoot
Polymnia uvedalia
Rosenweed
Silphium compositum
Coneflower
Rudbeckia laciniata
Verbesina
Verbesina sp.
Coreopsis
Coreopsis major
Ox-eye Daisy
Chrysanthemum leucanthemum

(Photo by L. Greenlee)

Red-eyed vireo nest, *Vireo olivaceus*.



FAUNA

Maple Spindle Gall Mite

Phyllocoptes aceris-crumena

Witch Hazel Cone Gall (aphid)

Hormaphis hamamelidis

Slippery Elm Pouch Gall (aphid)

Gobaihia ulmifusca

Ant-nest Scarab Beetle

Crematostichus castaneae

Bark-gnawing Beetle

Tenebroides dubia

Blue-black Blister Beetle

Meloe angusticollis

Cylindrical Bark Beetle

Bitynia sp.

Broad-bodied Leaf Beetle

Calligrapha rhoda

Broad-nosed Weevil

Aphrastus sp.

Eastern Tiger Swallowtail

Papilio glaucus

Pearl Crescent

Phyciodes tharos

Silver-spotted Skipper

Epargyreus clarus

Eastern Box Turtle

Terrapene carolina

Eastern Fence Lizard

Sceloporus undulatus

Ringneck Snake

Diadophis punctatus

Carolina Wren

Thryothorus ludovicianus

Wood Thrush

Hylocichla mustelina

Red-Eyed Vireo

Vireo olivaceus

Black-and-white Warbler

Mniotilta varia

Worm-eating Warbler

Helminthophila vermicorata

Northern Cardinal

Cardinalis cardinalis

Scarlet Tanager

Piranga olivacea

Charlie's Acres

Transylvania County, North Carolina

April 26, 1986, and April 25, 1992

For several years prior to his death, SCAN was blessed with the membership of Charles Moore of Brevard, N.C. He had been a wildflower enthusiast since childhood, and owned a major portion of a mountaintop adjacent to Pisgah National Forest just at the outskirts of the City of Brevard. Mr. Moore was willing to share his personal paradise with groups of interested people. The area is very rich in spring wildflowers and other flora and fauna typical of the southern Appalachians. Mr. Moore also had a set of witticisms that he shared as he happily showed all the special plants his "Acres" sheltered. Some plants were specimens he had rescued from construction sites. A visit to this site was always rewarding.

No public access. No map provided. For a similar trip see the immediately adjacent area of Pisgah National Forest.

FLORA

Lichen

Leptogium burnetiae
Leptogium cyanescens
Leptogium laceroides
Pannaria tavarezi
Lobaria pulmonaria
Lobaria quercizans
Graphis scripta
Graphis scripta topographica
Graphis elegans
Xylographa disseminata
Bacidia schweinitzii
Bacidia sp.
Cantharia glaucoviridis
Lecidea albocaularescens
Lecidea congesta
Lecidea promiscuens
Lecidea sp.
Rhizocarpon sp.
Stereocaulon sp.
Baeomyces fungoides
Cladonia chloropora
Cladonia ciliocarpa
Cladonia comita
Cladonia floerkeana
Cladonia furcata
Cladonia polycarpoides
Cladonia squamosa

Pertusaria ostiolata
Pertusaria plittiana
Pertusaria subpertusa
Pertusaria velata
Lecanora deplanans
Lecanora allophana argentata
Lecanora cupressi
Ochrolechia africana
Aspicilia laevata
Aspicilia cinerea
Cetraria ciliaris
Cetraria oakesiana
Cetraria chitinea
Hypogymnia krogiae
Hypogymnia physodes
Hypogymnia sp.
Hypotrachyna revoluta
Menegazzia terebrata
Parmelia appalachensis
Parmelia halei
Parmelia squarrosa
Parmelia sp.
Parmelia dissecta
Parmeliopsis aleurites
Parmotrema crinitum
Parmotrema reticulatum
Parmotrema robustum
Parmotrema subtiliosum
Pseudevernia consocians
Pseudoparmelia cuperata

Xanthoparmelia conspersa
Xanthoparmelia plinii
Melanella exasperata
Ramalina americana
Usnea ceratina
Usnea strigosa
Usnea sp.
Anaptychia palmatula
Buellia parasema
Buellia punctata
Physcia millegrana
Heterodermia leucomelaena
Heterodermia speciosa
Heterodermia squamulosa
Phaeophyscia imbricata
Phaeophyscia pusillodes
Phaeophyscia rubrapulchra
Rinodina milvina
Physcia enterosantha
Shining Clubmoss
Lycopodium lucidulum
Groundpine
Lycopodium obscurum
Running-pine
Lycopodium flabelliforme
Rattlesnake Grape Fern
Botrychium virginianum
Cinnamon Fern
Osmunda cinnamomea
Bristle Fern
Trichomanes borchianum

Maidenhair Fern
Adiantum pedatum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
New York Fern
Thelypteris noveboracensis
Marsh Fern
Thelypteris palustris
Fern
Thelypteris sp.
Sensitive Fern
Oncoclea sensibilis
White Pine
Pinus strobus
Pitch Pine
Pinus rigida
Norway Spruce
Picea abies
Eastern Hemlock
Tsuga canadensis
Carolina Hemlock
Tsuga caroliniana
Vanilla Grass
Anthriscus odoratus
Fraser's Sedge
Cymophyllus fraseri
Jack-in-the-pulpit
Arisaema triphyllum

Charlie's Acres (continued)
April 26, 1986, and April 25, 1992

- Little-sweet-Betsy
Trillium cuneatum
Little-sweet-Betsy
Trillium cuneatum latum
Trillium
Trillium discolor
Trillium lanceolatum
Nodding Trillium
Trillium cernuum
Wake-robin
Trillium erectum
Wake-robin; Red Trillium
Trillium erectum vaseyi
Catesby's Trillium
Trillium catesbaei
Great White Trillium
Trillium grandiflorum
Trillium
Trillium sp.
Indian Cucumber-root
Medeola virginiana
Solomon's-seal
Polygonatum biflorum
Polygonatum sp.
White Hellebore
Veratrum viride
False Hellebore
Veratrum sp.
Dog's-tooth-violet
Erythronium americanum
Bellwort
Uvularia perfoliata
Uvularia sessilifolia
Dwarf Iris
Iris verna
Crested Iris
Iris cristata
Showy Orchis
Orchis spectabilis
Downy Rattlesnake-plantain
Goodyera pubescens
Puttyroot; Adam-and-Eve
Asplenium hyemale
Willow
Salix sp.
Black Walnut
Juglans nigra
Hickory
Carya sp.
Tag Alder
Alnus serrulata
Cherry Birch
Betula lenta
American Hornbeam; Ironwood
Cornus caroliniana
Beech
Fagus grandifolia
Rock Chestnut Oak
Quercus prinus
Oak
Quercus sp.
Buffalo-nut
Pyrularia pubera
Heartleaf
Hecastylis arifolia
Common Chickweed
Stellaria media
Giant Chickweed
Stellaria pubera
Yellowroot
Xanthorhiza simplicissima
Small-flowered Crowfoot
Ranunculus abortivus
Hooked Buttercup
Ranunculus recurvatus
Buttercup
Ranunculus hispidus
Buttercup
Ranunculus sp.
Liverleaf
Hepatica acutiloba
Windflower
Anemone quinquefolia
Anemone sp.
Blue Cohosh; Papoose-root
Caulophyllum thalictroides
Umbrella-leaf
Diphylella cymosa
Mayapple
Podophyllum peltatum
Tulip-poplar
Liriodendron tulipifera
Umbrella-tree
Magnolia fraseri
Sweet-shrub; Carolina-allspice
Calyanthus floridus
Sassafras
Sassafras albidum
Spicebush
Lindera benzoin
Bloodroot
Sanguinaria canadensis
Early Winter Cress
Barbarea verna
Toothwort
Cardamine diphylla
Toothwort; Dentaria
Cardamine sp.
Sweet Pitcher-plant
Sarracenia rubra
Frog's-bitches
Sarracenia purpurea
Wild Hydrangea
Hydrangea arborescens
Common Evening-primrose
Hydrangea arborescens
arborescens
Hydrangea arborescens discolor
Oak-leaf Hydrangea
Hydrangea quercifolia
Grass-of-Parnassus
Parnassia asarifolia
Foamflower
Thiarella cordifolia
Saxifrage
Saxifraga michauxii
Witch-hazel
Hamamelis virginiana
Witch-alder
Fothergilla major
American Sycamore
Platanus occidentalis
Cinquefoil; Five-fingers
Potentilla sp.
Five-fingers
Potentilla canadensis
Blackberry; Brambles
Rubus sp.
Rose
Rosa sp.
Shadbush; Serviceberry
Amelanchier sp.
Black Cherry; Wild Cherry
Prunus serotina
White Clover
Trifolium repens
Wild Geranium
Geranium maculatum
Fringed Polygala
Polygala paucifolia
Poison-ivy
Rhus radicans
American Holly
Ilex opaca
Hearts-a-burstin'-with-love
Eonymus americanus
Red Maple
Acer rubrum
Yellow Buckeye
Aesculus octandra
Buckeye
Aesculus sp.
Virginia-creeper
Parthenocissus quinquefolia
Basswood; Linden
Tilia sp.
Franklin-tree
Franklinia alata
Hypericum
Hypericum sp.
Sweet White Violet
Viola blanda
Round-leaved Yellow Violet
Viola rotundifolia
Halberd-leaved Violet
Viola hastata
Canada Violet
Viola canadensis
Long-spurred Violet
Viola rostrata
Russian-olive
Elaeagnus umbellata
Common Evening-primrose
Oenothera biennis
Flowering Dogwood
Cornus florida
Alternate-leaved Dogwood
Cornus alternifolia
Silky Dogwood
Cornus amomum
Mountain Sweet Pepperbush
Clethra acuminata
Spotted Wintergreen
Chimaphila maculata
Indian-pipe
Monotropa uniflora
Rosebay; Great Laurel
Rhododendron maximum
Purple Laurel
Rhododendron catawbiense
Carolina-laurel
Rhododendron minus
Azalea
Rhododendron sp.
Mountain-laurel
Kalmia latifolia
Dog-hobble
Leucothoe axillaris
Leucothoe axillaris editorum
Sourwood
Oxydendrum arboreum
Huckleberry
Gaylussacia ursina
Oconee-bells; Shortia
Shortia galacifolia
Horse-sugar; Sweetleaf
Symplocos tinctoria
Carolina Silverbell
Halesia carolina
Creeping Phlox
Phlox stolonifera
Phacelia
Phacelia sp.
Veronica
Veronica officinalis
Lousewort
Pedicularis canadensis
Squaw-root
Conopholis americana
Broadleaf Plantain
Plantago rugelii
Partridge-berry
Mitchella repens
Bluets
Houstonia coerules
Houstonia purpurea
Japanese Honeysuckle
Lonicera japonica
American Elderberry
Sambucus canadensis
Prenanthes
Prenanthes sp.
Common Dandelion
Taraxacum officinale
Small's Ragwort
Senecio smallii
Ragwort
Senecio aureus
Pussy-toes
Antennaria solitaria
Robin's-plantain
Erigeron pulchellus
Green-and-gold
Chrysogonum virginianum
Black-eyed-Susan
Rudbeckia sp.
Devil's-urn
Urtica craterium
Green Stain
Chlorociboria ucrainatensis

Artist's Conk

Gonoderma applanatum
Common Split-gill
Schizophyllum commune

FAUNA

Giant Forest Snail

Mesodon normalis

White-lipped Forest Snail

Mesodon thyroideus

Ripe Forest Snail

Mesodon zelandicus

White-lipped Forest Snail

Triodopsis albolabris

Almond Millipede

Sigmoria aberrans

Nursery-web Spider

Pisaurina sp.

Water-strider

Gerris sp.

Blueberry Stem Gall (wasp)

Hemadas nubilipennis

Blackberry Knot Gall (wasp)

Diastrophus nebulosus

Pipe-organ Wasp (nest)

Trypoxylon politum

Bumblebee

Bombus sp.

Green Tiger Beetle

Cicindela sexguttata

Giant Water Scavenger Beetle

Hydrophilus triangularis

June Beetle

Phyllophaga sp.

Soldier Beetle

Silis sp.

Dusky Lady Beetle

Scymnus sp.

Long-horned Leaf Beetle

Donacia sp.

Skeletonizing Leaf Beetle

Luperodes cyanellus

Flea Beetle

Oedionychis sp.

Flower Weevil

Limnobaris prolixa

Eastern Tiger Swallowtail

Papilio glaucus

Spicebush Swallowtail

Papilio troilus

White M Hairstreak

Parrhasius m-album

Spring Azure (butterfly)

Celastrina ladon

Pearl Crescent

Phycodes tharos

American Lady (butterfly)

Vanessa virginiana

Silver-spotted Skipper

Epargyreus clarus

Eastern Newt

Notophthalmus viridescens

Bullfrog (larva)

Rana catesbeiana

Pickerel Frog

Rana palustris

Mallard

Anas platyrhynchos

Killdeer

Charadrius vociferus

Turkey Vulture

Cathartes aura

Broad-winged Hawk

Buteo platypterus

Ruffed Grouse

Bonasa umbellus

Mourning Dove

Zenaidura macroura

Pileated Woodpecker

Dryocopus pileatus

Great Crested Flycatcher

Myiarchus cinerascens

Eastern Wood-pewee

Contopus virens

Eastern Phoebe

Sayornis phoebe

Blue Jay

Cyanocitta cristata

American Crow

Corvus brachyrhynchos

Tufted Titmouse

Parus bicolor

Carolina Chickadee

Parus carolinensis

White-breasted Nuthatch

Sitta carolinensis

American Robin

Turdus migratorius

Red-Eyed Vireo

Vireo olivaceus

Northern Parula

Parula americana

Black-throated Blue Warbler

Dendroica caerulescens

Chestnut-sided Warbler

Dendroica pensylvanica

Hooded Warbler

Wilsonia citrina

Louisiana Waterthrush

Seiurus motacilla

Ovenbird

Seiurus aurocapillus

Rufous-sided Towhee

Pipilo erythrophthalmus

Red-winged Blackbird

Agelaius phoeniceus

American Goldfinch

Carduelis tristis

Eastern Chipmunk

Tamias striatus

Woodchuck; Groundhog

Marmota monax

Red Squirrel (scat)

Tamiasciurus hudsonicus

Horse Pasture River (Nantahala National Forest) Transylvania County, North Carolina April 22, 1989

The trail followed on this trip is no longer open to the public. It crossed private lands which changed hands in 1997. The high falls, Rainbow Falls, is on National Forest Property but access is not readily available at the time of press. A trail entirely on public property which would not utilize the area of this trip will probably be available in a few years. The area has typical mountain plants and animals. The spray at the base of Rainbow Falls created habitat for unusual species that thrive on this almost constant mist. Unfortunately, the climb down to this area is very hazardous.

No map or directions provided. Check with the National Forest Service to find out status of public trail.

FLORA

Peat Moss

Sphagnum sp.

Groundpine

Lycopodium obscurum

Running-pine

Lycopodium flabelliforme

Hay-scented Fern

Denastedia punctilobula

Southern Lady Fern

Athyrium asplenoides

White Pine

Pinus strobus

Pitch Pine

Pinus rigida

Eastern Hemlock

Tsuga canadensis

Jack-in-the-pulpit

Arisaema triphyllum

Rush

Juncus sp.

Catesby's Trillium

Trillium catesbaei

Painted Trillium

Trillium undulatum

Indian Cucumber-root

Medeola virginiana

False Solomon's Seal

Smilacina racemosa

Dog's-tooth-violet

Erythronium americanum

Bellwort

Uvularia sessilifolia

Yellow Star-grass

Hypoxis hirsuta

Dwarf Iris

Iris verna

Downy Rattlesnake-plantain

Goodyera pubescens

Rock Chestnut Oak

Quercus prinus

Winged Elm

Ulmus alata

Buffalo-nut

Pyrularia pubera

Heartleaf; Wild Ginger

Hexastylis contracta

Yellowroot

Xanthoxylum simplicifolium

Meadow-rue

Thalictrum sp.

Small-flowered Crowfoot

Ranunculus abortivus

Windflower

Anemone quinquefolia

Horse Pasture River (continued)

April 22, 1989

Tulip-poplar
Liriodendron tulipifera
 Umbrella-tree
Magnolia fraseri
 Wild Hydrangea
Hydrangea arborescens
 Saxifrage
Saxifraga virginiana
 Wild Strawberry
Fragaria virginiana
 Five-fingers
Potentilla canadensis
 Rose
Rosa sp.
 Red Chokeberry
Sorbus arbutifolia
 Downy Serviceberry
Amelanchier arborea
 Black Cherry; Wild Cherry
Prunus serotina
 American Holly
Ilex opaca
 Red Maple
Acer rubrum
 St.-Andrew's-cross
Hypericum hypericoides

Common Blue Violet
Viola papilionacea
 Sweet White Violet
Viola blanda
 Halberd-leaved Violet
Viola hastata
 Devil's-walking-stick
Aralia spinosa
 Golden-Alexander
Zizia aurea
 Flowering Dogwood
Cornus florida
 Mountain Sweet Pepperbush
Clethra acuminata
 Spotted Wintergreen
Chimaphila maculata
 Rosebay; Great Laurel
Rhododendron maximum
 Carolina-laurel
Rhododendron minus
 Mountain-laurel
Kalmia latifolia
 Dog-hobble
Leucothoe axillaris
 Fetterbush
Leucothoe recurva

Yellow star-grass, *Hypoxis hirsuta*

(Photo by A. Cieglar)

Trailing-arbutus
Epigaea repens
 Deerberry; Squaw-huckleberry
Vaccinium stamineum
 Galax; Galax; Coltsfoot
Galax aphylla
 Horse-sugar; Sweetleaf
Symplocos tinctoria
 Carolina Silverbell
Halesia carolina
 Lyre-leaved Sage
Salvia lyrata
 Veronica
Veronica officinalis
 Partridge-berry
Mitchella repens
 Diervilla
Diervilla lonicera
 Black-haw; Nanny-berry
Viburnum prunifolium
 Common Dandelion
Taraxacum officinale
 Robin's-plantain
Erigeron pulchellus
 Coneflower
Rudbeckia laciniata

FAUNA

Tiger Beetle
Cicindela repanda
 Minute Ground Beetle
Bembidion versicolor
 Flea Beetle
Altica sp.
 Eastern Tiger Swallowtail
Papilio glaucus
 Spicebush Swallowtail
Papilio troilus
 Eastern Tailed-blue(butterfly)
Everes corymbosus
 Spring Azure (butterfly)
Lycaenopsis argiolus
 Pearl Crescent
Phyciodes tharos
 Silver-spotted Skipper
Epargyreus clarus
 Southern Cloudwing
Thorybes batylus
 Horace's Duskywing
Erynnis horatius
 Eastern Garter Snake
Thamnophis sirtalis
 Eastern Phoebe
Sayornis phoebe
 Gray Catbird
Dumetella carolinensis
 Chestnut-sided Warbler
Dendroica pensylvanica
 Yellow Warbler
Dendroica petechia
 Northern Cardinal
Cardinalis cardinalis
 Rufous-sided Towhee
Pipilo erythrophthalmus
 Song Sparrow
Melospiza melodia
 Dark-eyed Junco
Junco hyemalis
 White-throated Sparrow
Zonotrichia albicollis

Windflower, *Anemone quinquefolia*.

(Photo by L. Smith)

John Rock, Black Balsam Knob, and Cradle of Forestry (Pisgah Ranger District, Pisgah National Forest) Transylvania and Haywood Counties, North Carolina April 24, 1993, and August 26-27, 1995

Both these trips were overnights, giving access to several different areas of Pisgah Ranger District. The fish hatchery is now named Davidson River Fish Hatchery and Educational Center and is operated by the state of North Carolina. Black Balsam Knob is an open bald at about 6000 feet above sea level; John Rock is the top of a granite knob with forest on one side and an open rock face on the other. The Cradle of Forestry area is about half-way up the mountain, between the two other elevations. Heavy rain from a tropical storm plagued the 1995 trip, but it also brought out certain species that are ordinarily subterranean, such as the bright red crayfish, and the many species of mushrooms. The spring trip yielded many migrating warblers. We in the Carolinas get to see them only as they pass to or from breeding grounds farther north. Gorgeous spring wildflowers were a highlight as well.

Directions to Pisgah Ranger District: From Greenville, take US 276 north to Brevard, about 50 miles. Continue north on US 276 for 3 more miles to the traffic light where US 276 turns left and US 64 turns right. To reach the Cradle of Forestry from this intersection, turn left (north) on US 276 and drive about 14 miles. The Cradle of Forestry is on the right, well-marked with signs. To reach John Rock from the same intersection north of Brevard, travel only 5.3 miles north on US 276; then turn left onto FS 485. Drive about 1.4 miles to the fish hatchery parking lot and park near the trail head. To reach Black Balsam Knob, continue past the Cradle of Forestry another 1-2 miles, then turn south on the Blue Ridge Parkway. After 7 miles, turn north on Forest Service Road 816, and park by the trailhead posted for Black Balsam Knob.



FLORA

Lichen

Collema subflaccidum
Leptogium cyanescens
Leptogium sp.
Pannaria tavaresii
Peltigera canina
Labaria pulmonaria
Labaria quercizans
Labaria tenuis
Pseudocopralaria aurata
Pseudocopralaria erocata
Sclera weigeltii
Graphis scripta
Cladonia arbuscula
Bacidia schweinitzii
Lecidea albocaulerescens
Lecidea contigua
Lecidea tessellata
Porpidia macrocarpa

Stereocaulon sp.
Cladonia caespiticia
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia didyma
Cladonia furcata
Cladonia squamosa
Cladonia uncialis
Umbilicaria mammulata
Pertusaria neoscotica
Pertusaria rubefacta
Pertusaria waghornii
Pertusaria velata
Lecanora deplanans
Lecanora censis
Lecanora cupressi
Lecanora polytrapa
Ochrolechia africana
Cetraria arenaria
Cetraria aurea

Cetraria ciliaris
Cetraria sp.
Cetraria chicitae
Cetraria sp.
Hypogymnia krogiae
Parmelia omphalodes
Parmelia saxatilis
Parmelia squarrosa
Parmelia sulcata
Parmelia horrescens
Parmelia minarum
Pseudovermia cladonia
Pseudovermia consocians
Xanthoparmelia conspersa
Xanthoparmelia plinii
Punctelia rufecta
Punctelia subrudecta
Melanella halei
Melanella stygia
Melanella subarctica
Imshaugia algaricis

Rimelia reticulata
Tuckermopsis oakesiana
Tuckermopsis piastri
Evernia mesomorpha
Umea ceratina
Umea mutabilis
Umea strigosa
Umea sulforidiana
Umea trichodea
Umea filipedana
Baelella punctata
Baelella crustacea
Physcia millegrana
Heterodermia leucomeles
Heterodermia obscurata
Heterodermia speciosa
Heterodermia caesiottiana
Psixine soridula
Phaeoplycia adrianae
Phaeoplycia imbricata
Phaeoplycia rubropulchra
Dermatocarpon subulatum

John Rock, Black Balsam Knob, and Cradle of Forestry

(continued)

April 24, 1993, and August 26-27, 1995

Shining Clubmoss

Lycopodium lucidulum

Running Clubmoss

Lycopodium clavatum

Groundpine

Lycopodium obscurum

Running-pine

Lycopodium flabelliforme

Rattlesnake Grape Fern

Botrychium virginianum

Hay-scented Fern

Denstaedia punctilobula

Bracken

Pteridium aquilinum

Southern Lady Fern

Adiantum asplenoides

Spreading Bladder Fern

Cystopteris protrusa

Shield Fern

Dryopteris sp.

Christmas Fern

Polystichum acrostichoides

New York Fern

Thelypteris noveboracensis

Mountain Spleenwort

Asplenium montanum

Rock Cap Fern

Polypodium virginianum

White Pine

Pinus strobus

Pitch Pine

Pinus rigida

Table Mountain Pine

Pinus pungens

Red Spruce; He Balsam

Picea rubens

Eastern Hemlock

Tsuga canadensis

Carolina Hemlock

Tsuga caroliniana

Fraser Fir; She Balsam

Abies fraseri

Cane; Switch Cane

Arundinaria gigantea

Jack-in-the-pulpit

Arisaema triphyllum

Woodrush

Luzula acuminata

Wake-robin

Trillium erectum

Great White Trillium

Trillium grandiflorum

Mandarin

Disporum sp.

Solomon's-seal

Polygonatum biflorum

White Hellebore

Veratrum viride

False Hellebore

Veratrum sp.

Dog's-tooth-violet

Erythronium americanum

Bellwort

Uvularia sp.

Dwarf Iris

Iris versa

Downy Rattlesnake-plantain

Goodyera pubescens

Crane-fly Orchid

Tipularia discolor

Puttyroot; Adam-and-Eve

Aplectrum hyemale

Autumn Coral-root

Corallorhiza odoratior

Willow

Salix sp.

Pignut Hickory

Carya glabra

Hickory

Carya sp.

Tag Alder

Alnus serrulata

Yellow Birch

Betula lutea

American Hornbeam; Ironwood

Carpinus caroliniana

Beech

Fagus grandifolia

White Oak

Quercus alba

Rock Chestnut Oak

Quercus prinus

Red Oak

Quercus rubra

Scarlet Oak

Quercus coccinea

Wood-nettle

Laportea canadensis

Heartleaf

Hexastylis sp.

Spring-beauty

Claytonia caroliniana

Giant Chickweed

Stellaria pubera

Yellowroot

Xanthorhiza simplicissima

Buttercup

Ranunculus sp.

Windflower

Anemone quinquefolia

Blue Cohosh; Papoose-root

Caulophyllum thalictroides

Mayapple

Podophyllum peltatum

Tulip-poplar

Liriodendron tulipifera

Umbrella-tree

Magnolia fraseri

Magnolia tripetala

Cucumber-tree

Magnolia acuminata

Spicebush

Lindera benzoin

Bloodroot

Sanguinaria canadensis

Toothwort

Cardamine diphylla

Cardamine concatenata

Wild Hydrangea

Hydrangea arborescens

Alumroot

Heuchera americana

Foamflower

Tiarella cordifolia

Wild Strawberry

Fragaria virginiana

Blackberry

Rubus canadensis

Mountain-ash

Sorbus americana

Downy Serviceberry

Amelanchier arborea

Fire Cherry; Pin Cherry

Prunus pensylvanica

Poison-ivy

Rhus radicans

American Holly

Ilex opaca

Mountain Holly

Ilex ambigua montana

Hearts-a-burstin'-with-love

Euonymus americanus

Strawberry-bush

Euonymus sp.

Striped Maple

Acer pensylvanicum

Red Maple

Acer rubrum

Yellow Buckeye

Aesculus octandra

Basswood; Linden

Tilia sp.

Hypericum

Hypericum sp.

Bird-foot Violet

Viola pedataGreat white trillium, *Trillium grandiflorum*.

(Photo by L. Smith)

Primrose-leaved Violet
Viola primulifolia
 Round-leaved Yellow Violet
Viola rotundifolia
 Halberd-leaved Violet
Viola hastata
 Violet
Viola eriocarpa leiocarpa
Viola sp.
 Flowering Dogwood
Cornus florida
 Alternate-leaved Dogwood
Cornus alternifolia
 Spotted Wintergreen
Chimaphila maculata
 Rosebay; Great Laurel
Rhododendron maximum
 Carolina-laurel
Rhododendron minus
 Sand-myrtle
Leptophyllum buxifolium
 Mountain-laurel
Kalmia latifolia
 Andromeda
Pieris floribunda
 Maleberry
Lyonia ligustrina
 Dog-hobble
Leucochoe axillaris editorum
Leucochoe sp.
 Sourwood
Oxydendrum arboreum
 Trailing-arbutus
Epigaea repens
 Wintergreen
Gaultheria procumbens
 Huckleberry
Gaylussacia ursina
 Blueberry
Vaccinium constablaei
 Galax; Galax; Coltsfoot
Galax aphylla
 Hesse-sugar; Sweetleaf
Symplocos tinctoria
 Carolina Silverbell
Halesia carolina
 American Ash; White Ash
Fraxinus americana

Princess-tree
Paulownia tomentosa
 Partridge-berry
Mitchella repens
 Bluets
Houstonia serpyllifolia
Houstonia sp.
 Bush Honeysuckle
Diervilla sessilifolia
 Viburnum
Viburnum sp.
 Common Dandelion
Taraxacum officinale
 Small's Ragwort
Senecio smallii
 Ragwort
Senecio aureus
 Robin's-plantain
Erigeron pulchellus
 Common Brown Cup
Petiza badio-confusa
 Black-trumpet
Craterellus fallax
 Crested Coral
Clavulina cristata
 Yellow-tipped Coral
Ramaria formosa
 Violet-toothed Polypore
Trichaptium bifornis
 Red-tipped Lepiota
Lepiota rubrotincta
 Yellow-patches
Amanita flavoconia
 Gemmed Amanita
Amanita gemmata
 Fly Agaric
Amanita muscaria formosa
 Panther Mushroom
Amanita pantherina
 Destroying-angel
Amanita virosa
 Frost's Bolete
Boletus frostii
 Painted Suillus
Suillus pictus
 Gilled Bolete
Phylloporus rhodoxanthus
 Grayling Yellow Russula
Russula claoflava

Emetic Russula
Russula emetica
 Gem-studded Puffball
Lycoperdon perlatum
 White-egg Bird's-nest
Crucibulum laeve
 Stalked Puffball-in-aspic
Calostoma cinnabarinum

FAUNA

Long-jawed Orb-weaver
Tetragnatha sp.
 Red Velvet Mite
Trombidium sp.
 Blueberry Stern Gull (wasp)
Hemadas nubilipennis
 Post-oak Apple Gull (wasp)
Andricus unica
 Oak Bullet Gull (wasp)
Dischalcaspis globulus
 Gouty Oak Gull (wasp)
Plagiostrochus punctatus
 Bee Fly
Anthrax aralis
 Common Green Darner
Anax junius
 Dingy Ground Beetle
Harpalus pennsylvanicus
Harpalus spadicus
 Large Rove Beetle
Staphylinus cinnamopterus
 Rove Beetle
Ontholestes sp.
 Riffle Beetle
Limnius latiusculus
 Soldier Beetle
Podabrus sp.
Cantharis bilineatus
 Firefly; Lightning Beetle
Ellychnia sp.
 Blister Beetle
Lytta aenea
 Grape Flea Beetle
Altica chalybea
 Flea Beetle
Altica sp.
 Broad-nosed Weevil
Phyllobius sp.
 Eastern Tiger Swallowtail
Papilio glaucus
 Spring Azure (butterfly)
Celastrina ladon
 Juvenal's Duskywing
Erynnis juvenalis
 White-striped Black Moth
Trichodea albivittata
 Brook Trout
Salvelinus fontinalis
 Mountain Dusky Salamander
Desmognathus ochropheus
 Shovel-nosed Salamander
Leurognathus marmoratus
 Eastern Box Turtle
Terrapene carolina
 Timber Rattlesnake
Crotalus horridus

Killdeer
Charadrius vociferans
 Turkey Vulture
Cathartes aura
 Broad-winged Hawk
Buteo platypterus
 Northern Flicker
Colaptes auratus
 Downy Woodpecker
Picoides pubescens
 Pileated Woodpecker
Dryocopus pileatus
 Eastern Kingbird
Tyrannus tyrannus
 Eastern Phoebe
Sayornis phoebe
 Blue Jay
Cyanocitta cristata
 American Crow
Corvus brachyrhynchos
 Common Raven
Corvus corax
 Tufted Titmouse
Parus bicolor
 Carolina Chickadee
Parus carolinensis
 Ruby-crowned Kinglet
Regulus calendula
 Blue-gray Gnatcatcher
Poliophtila caerulea
 American Robin
Turdus migratorius
 Gray Catbird
Dumetella carolinensis
 Solitary Vireo
Vireo solitarius
 Red-eyed Vireo
Vireo olivaceus
 Northern Parula
Parula americana
 Black-and-white Warbler
Mniotilta varia
 Black-throated Blue Warbler
Dendroica caerulescens
 Blackburnian Warbler
Dendroica fusca
 Cape May Warbler
Dendroica tigrina
 Black-throated Green Warbler
Dendroica virens
 Hooded Warbler
Wilsonia citrina
 Louisiana Waterthrush
Seiurus motacilla
 Ovenbird
Seiurus aurocapillus
 Rufous-sided Towhee
Pipilo erythrophthalmus
 Chipping Sparrow
Spizella passerina
 Dark-eyed Junco
Junco hyemalis
 American Goldfinch
Carduelis tristis
 Woodchuck; Groundhog
Marmota monax



(Photo by V. Wane)
 Fly agaric *amanita*, *Amanita muscaria*.



(Photo by L. Smith)

Black Balsam Knob, Pisgah Ranger District, Transylvania County, North Carolina, Blue Ridge region.



(Photo by L. Greenlee)

Table Rock State Park, Pickens County, Blue Ridge region.



(Photo by L. Greenlee)

Frank Hill finds the water high at Savage Bay Heritage Preserve, Kershaw County, Sandhills region.



(Photo by L. Greenlee)

Felicia Smith studies a paper wasp nest, *Polistes* sp., Old Santee Canal State Park, Berkeley County, Atlantic Coast Flatwoods region.



Yellow Prong River above second falls. Graveyard Field Loop, Blue Ridge region.

(Photo by L. Smith)



(Photo by L. Smith)

Two good close-up examples of water erosion on river rock. Below is a pot hole. Blue Ridge region.



Science and Nature Notes: Water Erosion

Water is the primary erosive force currently shaping the South Carolina landscape. Water alone can create large gullies which become valleys, while pushing the eroded sediment downstream to form flood plains and river deltas. Add small pieces of rock chipped from large rocks as they are tumbled and the stream becomes a scouring agent. Under the right conditions, large pebbles get swirled on one small area forming picturesque 'potholes' in the river bottom rock such as the one you see here. Waterfalls are created when the stream wears away a softer rock downstream and the water drops off more quickly, continuously accelerating the process. Plant material falling into the water releases acids that also can accelerate the erosion of rocks. Flood conditions erode softer soils and wash them downstream adding to the richness and depth of floodplain and delta soils.



(Photo by L. Smith)

Never a stone unturned. Rick Renfrow looks for river life.



(Photos by B. Gilbert)

Saltwater marshes and open beaches are visited by SCAN at least once a year. Pinckney Island, Beaufort County (left) and Edisto Beach, Charleston County, Tidewater region.



(Photo by A. Ciegler)

An artistic view of a rattlebox seed pod, *Crotalaria* sp.



(Photos by L. Smith and L. Greenlee)

Boardwalks are a favorite way to visit our swampy areas. Here we have Washo Reserve (left) in the Santee Coastal Wildlife Management Area, Charleston County, Tidewater region; and, Congaree Swamp National Monument (above), Richland County, Southern Coastal Plain region.





Male great blue skimmer, *Libellula vibrans*.



(Photos by R. Emmitt and A. Giegler)



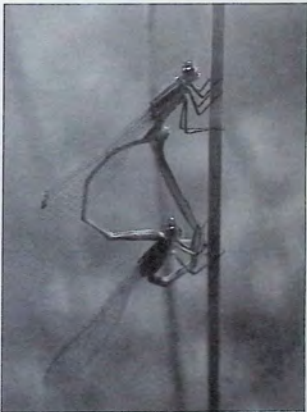
Blue-ringed dancer, *Argia sedula*.

(Photo by L. Smith)



Black-shouldered spiny-leg, *Dromogomphus spinosus*.

(Photo by L. Greenlee)



Rambur's fork-tail, *Ischnura ramburii*.

(Photo by L. Greenlee)



(Photo by L. Greenlee)

Howard and Pam Spencer take a break at Caesars Head State Park, Greenville County, Blue Ridge region.



(Photo by V. Wynn)

Gary Sowell and Lynn Greenlee take time out for a photographic opportunity, Woods Dargan, Darlington County, Sandhills region.



(Photo by V. Wynn)

SCAN explores the Lynches River State Park, Florence County, Atlantic Coast Flatwoods region.



(Photo by B. Gilbert)

SCAN members head for the hills at the Martin Marietta Quarry near Cross, SC, Berkeley County, Atlantic Coastal Flatwoods region. Fossil hunting is often our December outing since flora and fauna aren't as obvious.



(Photo by Betty Gilbert)

Oleta (Beard) LaBorde (left) puts Radford to the test, Cartwheel Bay Heritage Preserve, Horry County, Atlantic Coast Flatwoods region.



(Photo by B. Gilbert)

Jo Segal (front) and Glenn Quattlebaum weather the cold at Santee National Wildlife Refuge, Clarendon County, Southern Coastal Plain region.



Orb-weaver web.

(Photo by A. Czigler)



Rabid wolf spider with egg case, *Lycosa rabida*.

(Photo by L. Greenlee)



Egg sac of the basilica spider, *Mecynogea lemniscata*.

(Photo by L. Smith)



Arrow-shaped spiny-back spider, *Microthema sagittata*.

(Photo by L. Greenlee)



Bowl-and-dolly spider web, *Frontinella pyramitela*.

(Photo by L. Smith)



Filmy-dome spider web, *Prolinyphia marginata*.

(Photo by L. Smith)



Marbled orb-weaver, *Araneus marmoreus*.

(Photo by L. Greenlee)



Writing spider, *Argiope aurantia*, eats a variegated fritillary, *Euptoieta claudia*.

(Photo by L. Greenlee)



Sam Outen prepares for his next great photograph.

(Photo by A. Ciegler)



Female imperial moth, *Eacles imperialis*.

(Photo by L. Greenlee)



Black swallowtail, *Papilio polyxenes*, caterpillar changes into a chrysalis.

(Photo by L. Greenlee)



Hickory horned-devil larva, *Citheronia regalis*.

(Photo by A. Ciegler)



Grape leaffolder moth, *Desmia funeralis*.

(Photo by L. Scrab)



Giant leopard moth, *Epantheria scribonia*.

(Photo by L. Greenlee)



Acraea moth, *Estigmene acraea*.

(Photo by L. Greenlee)



Female diana fritillary, female, *Speyeria diana*.

(Photo by L. Smith)



Male and female blinded sphinx moths, *Paonias astylus*.

(Photo by L. Greenlee)



Pipevine swallowtail, *Battus philenor*, chrysalis (left) and larva (above).



Luna moth, *Actias luna*.

(Photo by B. Gihari)



Azalea caterpillars, *Datana major*.

(Photo by L. Greenlee)



Zebra longwing, *Heliconius charitonia*.

(Photo by L. Greenlee)



Abbot's sphinx moth larva, *Sphecodina abbottii*.

(Photo by L. Smith)



Cloudless sulfur, *Phoebis sennae*.

(Photo by L. Greenlee)



Great spangled fritillary, *Speyeria cybele*.

(Photo by L. Smith)



Cecropia moth, *Hyalophora cecropia*, larva (above) and female (left).

(Photos by L. Greenlee and A. Cogoli)



Birds-nest splashcups, *Cyathus striatus*.

(Photo by A. Ciegler)



(Photo by V. Winn)

Columned stinkhorn, *Clathrus columnatus*.



(Photo by V. Winn)

Fluted white helvella, *Helvella cripa*.



(Photo by V. Winn)

Jellied false coral, *Tremellodendron pallidum*.



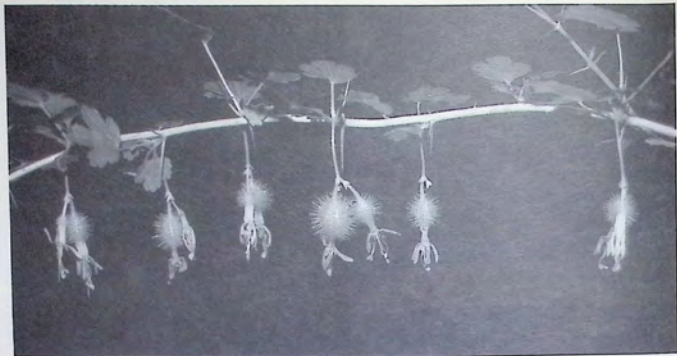
(Photo by A. Ciegler)

Eyelash splashcups, *Scutellinia scutellata*.



(Photo by L. Smith)

Shaggy-stalked bolete, *Boletellus betula*.



(Photos by L. Smith and B. Gilbert)

Views of the rare spiny gooseberry, *Ribes echinellum*.





Sand myrtle, *Leiophyllum buxifolium*.

(Photo by A. Czigler)



Andromeda or mountain pieris, *Pieris floribunda*.

(Photo by L. Smith)



Rosebay rhododendron, *Rhododendron maximum*.

(Photo by V. Wynn)



Cotton rat, *Sigmodon hispidus*.

(Photo by L. Smith)



White-tailed deer, *Odocoileus virginianus*.

(Photo by V. Wynn)

SCAN: The Second Ten Years

Scenes of Heggie's Rock, Columbia County, Georgia, Blue Ridge region.



Vernal pool stonecrop, *Sedum smallii*.

(Photo by L. Smith)



Spiderwort, *Tradescantia hirsuticaulis*.

(Photo by V. Wiest)



Alex Ciegler gets a close look at vernal pool stonecrop, *Sedum smallii*.

(Photo by L. Smith)



Pool-sprite, *Amphianthus pusillus*.

(Photo by L. Smith)



Vernal pool stonecrop, *Sedum smallii*.

(Photo by L. Smith)



Devil-joint, *Opuntia drummondii*.

(Photo by V. Wiest)



Yellow Mandarin, *Disporum lanuginosum*.

(Photo by V. Winn)



Dandelion, *Taraxacum officinale*.

(Photo by V. Winn)



Terry Hook and Danny Smith at Pinckney Island National Wildlife Refuge, Charleston County, Tidewater region.

(Photo by L. Greenlee)



Pink lady's-slippers, *Cypripedium acaule*.

(Photo by L. Greenlee)



Green-and-gold, *Chrysogonum virginianum*.

(Photo by L. Smith)



White-topped sedge, *Dichranina latifolia*.

(Photo by V. Wins)



Poison-oak, *Rhus toxicodendron*.

(Photo by V. Wins)



Prickly pear, *Opuntia compressa*.

(Photo by A. Czapler)



Yellow passionflower, *Passiflora lutea*.

(Photo by L. Smith)



Staggerbush, *Lyonia mariana*.

(Photo by V. Wins)



Turk's-cap lily, *Lilium superbum*.

(Photo by L. Smith)



Bladderwort, *Utricularia inflata*.

(Photo by A. Czigler)



Wild ginger, *Asarum canadense*.

(Photo by L. Smith)



Pink-grass, *Catopogon pulchellus*.

(Photo by L. Smith)



(Photo by V. Wines)

Hooded pitcher-plant, *Sarracenia minor*.



(Photo by V. Wines)

Hooded pitcher-plant, *Sarracenia minor*.



(Photo by A. Ciegler)

Trumpets, *Sarracenia flava*.



(Photo by V. Wines)

Sundew, *Drosera leucantha*.



(Photo by A. Ciegler)

Sundew, *Drosera intermedia*.

Science & Nature Notes: Carnivorous Plants

Plants that eat animals to live sound like contradictions in terms. However, there is one group of plants that has adapted a carnivorous approach to a complete diet. These plants live in very acid, mineral poor soil most often found in bogs, swamps, freshwater marshes and savannas. They attract insects and occasionally other kinds of animals to their leaves, then trap them, absorbing the minerals in their bodies as they are dissolved on or in the leaves. Venus flytraps use a spring loaded toothed cage to entrap its meal. Butterworts (*Pinguicula*) and sundews (*Drosera*) use a sticky substance to keep the prey in place until digestion takes place. Pitcher plants have leaves in a tube shape to form a 'pitcher' that is lined with downward pointing hairs that allow an insect to climb down to the water trapped in the leaf, but do not allow it to climb out. Bladderworts, most of which grow in standing water or very wet soils, have special pouches on their roots that have an opening with sensitive trigger hairs that sense a small creature swimming by, which then open in a sucking manner to suck in the creature and some surrounding water.



(Photo by A. Ciegler)

Trumpets, *Sarracenia flava*.



(Photo by A. Ciegler)

Frog's-britches, *Sarracenia purpurea*.



(Photo by V. Wenz)

Frog's-britches, *Sarracenia purpurea*.



(Photo by A. Ciegler)

Venus'-flytrap, *Dionea muscipula*.



(Photo by V. Wenz)

Sam Pratt, Dee Hope, Pat Chaplin, Mary Boni, Loree Gandy and other SCAN members explore one of South Carolina's carolina bays which are known for their carnivorous plants.

Science & Nature Notes: Carolina Bays

Carolina bays are not bays on a shore, but an elliptical depression that tends to fill with water providing a good habitat around the edge for a type of plant commonly called 'bay'. Aerial photography gave the first look at the similarity of shape, elliptical, and orientation, northwest-southeast, of these depressions. Also unique is the shallow sand ridge around them, trapping water. Some bays have standing water year round in the center, some only seasonally, and some few seem to only have a savanna-like center. Most bays have a good stand of cypress in the permanently wet areas, then a rim of bays and other shrubs and then a sandhills-like habitat around the rim. The cause of bay formation is still a cause for much discussion among geologists. Wind and ice erosion when this was a colder climate currently seems to be the most accepted. Whatever their cause, they have created some unique habitats that are very rewarding to explore. Woods Bay State Park is a classic water-filled bay, while Lewis Ocean Bay Heritage Preserve has a huge savanna type bay.



Lobelia, *Lobelia* sp.

(Photo by A. Cieglar)



(Photo by V. Wiese)

Hyssop skullcap, *Scutellaria integrifolia*.



(Photo by V. Wiese)

Spreading-pogonia, *Cleistes divaricata*.



(Photo by A. Cieglar)

Artistic view of grass.



Squawroot, *Conopholis americana*.

(Photo by L. Greenlee)



(Photo by A. Caglar)

A typical view of SCAN members — binoculars up and heads back.



(Photo by S. Wiant)

Mina Winn scans the tree tops for birds.



River-oats, *Uniola latifolia*.

(Photo by B. Gilbert)



(Photo by B. Gilbert)

Anna Kaye Singley takes a break from hiking to capture the beauty of nature on canvas. Anna Kaye illustrated SCAN's first book.



(Photos by B. Gilbert and V. Wase)

Landsford Canal was built in the early 1800's to let boats get around the rapids on the Catawba River. Shortly after construction, the railroad system took over the transportation of goods and the locks were no longer used. Over the last 20 years, South Carolina has been gradually restoring them. Landsford Canal State Park, Chester County, Southern Piedmont Region.



(Photo by B. Gilbert)

SCAN members head for the diversity of flora and fauna at one of South Carolina's unique Carolina bays. Cartwheel Bay Heritage Preserve, Horry County, Atlantic Coastal Flatwoods region.



(Photo by A. Ciegler)

Insect eggs.



Two-spotted lady beetle, *Adalia bipunctata*.

(Photo by L. Greenlee)



Keeled shield-back katydid, *Neduba carinata*.

(Photo by V. Wain)



Centipede, *Strigamia* sp.

(Photo by A. Cigler)



Locust borer, *Megacyllene robiniae*.

(Photo by V. Wain)



Eastern eyed click beetle, *Alaus oculatus*.

(Photo by V. Wain)



Immature katydid.

(Photo by A. Cigler)



Spur-throated grasshopper, *Melanoplus differentialis*.

(Photo by A. Cigler)



Red eft or eastern newt, *Notophthalmus viridescens*.

(Photo by L. Greenlee)



Southern toad, *Bufo terrestris*.

(Photo by L. Smith)



Bull frog, *Rana catesbeiana*.

(Photo by V. Woot)



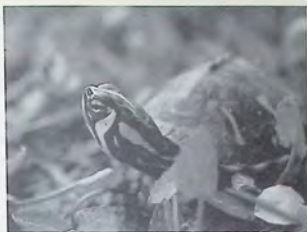
Marbled salamander, *Ambystoma opacum*.

(Photo by A. Cagle)



Southern five-lined skink, *Eumeces inexpectatus*.

(Photo by L. Greenlee)



Yellow-bellied slider, *Pseudemys scripta*.

(Photo by L. Greenlee)



Timber rattlesnake, *Crotalus horridus*.

(Photo by A. Cagle)



Rough green snake, *Ophiodrys aestivus*.

(Photo by L. Greenlee)



Black rat snake, *Elaphe obsoleta*.

(Photo by A. Cagle)



American Alligator, *Alligator mississippiensis*.

(Photos by V. Winn)



Broad-headed skink, *Eumeces laticeps*.

(Photo by L. Greenlee)



Eastern Garter Snake, *Thamnophis sirtalis*.

(Photo by L. Greenlee)



(Photo by L. Greenlee)
Mary Garland Douglass with little grass
frog, *Limnaea ocularis*.

(Photo by A. Ciegler)
Red Smith enjoys a
lunch break.





(Photo by L. Greenlee)

Ted Cottingham, David Smith, Lynn Smith, Cathe Jones, Alex Ciegler, Virginia Winn and Mina Winn break for lunch at John de la Howe School, McCormick County, Southern Piedmont region.



(Photo by L. Smith)

Dee Hope identifies flora.



(Photo by L. Greenlee)

Jan Ciegler (front) and Mina Winn look up sea life at Hunting Island State Park, Beaufort County, Tidewater region.



Black-necked stilt, *Himantopus mexicanus*.

(Photo by A. Ciegler)



Canada goose, *Branta canadensis*, with young.

(Photo by L. Greenlee)



Louisiana or tricolored heron, *Egretta tricolor*.

(Photo by V. Wynn)



Royal terns, *Sterna maxima*.

(Photo by A. Ciegler)



Snowy egret, *Egretta thula*.

(Photo by A. Ciegler)



Barred owl, *Strix varia*.

(Photo by A. Ciegler)



(Photos by R. Emmitt)

Osprey, *Pandion haliaetus*, feed on live fish and usually nest near water but if suitable sites are unavailable they will nest inland. They normally nest in dead trees but are also attracted to artificial platforms.



(Photo by V. Winn)

Asiatic Clam, *Corbicula* sp.



(Photo by V. Winn)

Mallard, *Anas platyrhynchos*.



(Photo by B. Gilbert)

Neither rain, sleet, ice nor snow will keep SCAN from our appointed field trip. Landsford Canal State Park, Chester County, Piedmont region.



(Photo by L. Greenlee)

Florence High explores Playcard Environmental Center, Horry County, Atlantic Coastal Flatwoods region.



(Photo by B. Gilbert)

Patti Shrum, Gary Sowell, Jan Ciegler and Nancy Lyman look for flora and fauna at Sugarloaf Mountain, Chesterfield County, Sandhills region.



(Photo by V. Wines)

Decanie Dowling, one of SCAN's long time members, takes slides (above) at Sugarloaf Mountain in the Sandhills State Forest, Chesterfield County, Sandhills region.



(Photo by V. Wines)

Sara Lee Simons looks out from the top of Sugarloaf Mountain in the Sandhills State Forest, Chesterfield County, Sandhills region.



(Photo by V. Wines)

Mary Garland Douglass gets a closer look at aquatic fauna at Silver Bluff Audubon Preserve, Aiken County, Southern Piedmont region.



(Photo by V. Wines)

Oleta LaBorde and Decanie Dowling measuring the girth of a tree at Broad River near Hickory Grove, York County, Piedmont region.

Natural History Organizations

ACE Basin National Wildlife Refuge

Hollywood, SC 29449

Phone: 843-889-3084

**Ashipoo River Canoe Trip, page 65

**Bear Island Wildlife Management Area, page 67

**Donnelley Wildlife Management Area, page 69

Black Rock Mountain State Park

Mountain City, GA 30562

Phone: 706-746-2141

**See page 201

Carolina Sandhills National Wildlife Refuge

Route 2, Box 330

McBee, SC 29101

Phone: 843-335-8401

**See page 58

Cape Romain National Wildlife Refuge

US Department of Interior Fish and Wildlife Service

4801 Highway 17 N.

Awendaw, SC 29429

Phone: 843-928-3368

**Bull Island, page 41

Charleston Natural History Society

PO Box 504

Charleston, SC 29402

Phone: 843-577-7100

**McAlhany Nature Preserve, page 83

Congaree Swamp National Monument

200 Carolina Sims Road

Hopkins, SC 29061

Phone: 803-776-4396

**See page 176

Kalmia Gardens of Coker College

1624 West College Avenue

Hartsville, SC 29550

Phone: 843-383-8145

**Kalmia Gardens of Coker College, page 75

**Segars Heritage Preserve, page 75

Pinckney Island National Wildlife Refuge

PO Box 8487

Savannah, GA 31412

Phone: 912-652-4415

**See page 25

Pisgah Ranger District, Pisgah National Forest

1001 Pisgah Highway

Pisgah Forest, NC 28768

Phone: 828-877-3265 or 828-877-3350

**Black Balsam Knob, page 213

**Cradle of Forestry, page 213

**John Rock, page 213

Playcard Environmental Education Center

Route 3, Box 401

Loris, SC 29569

Phone: 843-756-1277

**See page 114

Roper Mountain Science Center

504 Roper Mountain Road

Greenville, SC 29615

Phone: 864-281-1188

**See page 101

Santee National Wildlife Refuge

Route 2, Box 370

Summerton, SC 29148

Phone: 803-478-2217

**See page 64

Savannah National Wildlife Refuge

PO Box 8487

Savannah, GA 31412

Phone: 912-652-4415

**See page 118

SC Department of Natural Resources

1000 Assembly Street

Columbia, SC 29201

General Information Phone: 803-734-3888

Endangered Species Phone: 803-734-3894

Wildlife Management Areas Phone: 803-734-3894

Heritage Trust Program Phone: 803-734-3894

**Bear Island WMA, page 67

**Bennetts Bay HP, page 62

**Bunched Arrowhead HP, page 93

**Buzzard's Roost HP, page 156

**Cartwheel Bay HP, page 108

**Cathedral Bay HP, page 18

**Donnelley WMA, page 69

**Eastatoe Creek HP, page 168

**Ervin Dargan HP, page 110

**Eva Russel Chandler HP, page 97

**Flat Creek HP, page 126

**Glassy Mountain HP, page 170

**Lewis Ocean Bay HP, page 112

**Little Pee Dee River HP, page 110

**Lynchburg Savanna HP, page 135

**Mt. Pleasant Church Bay HP, page 138

**Pacolet River HP, page 185

**Peachtree Rock HP, page 141

**Santee Coastal WMA, page 44

**Savage Bay HP, page 124

**Savannah River HP, page 7

**Segars HP, page 75

**Stevens Creek HP, page 147

**Tillman Sand Ridge HP, page 119

**Victoria Bluff HP, page 29

**Webb Wildlife Center, page 107

SC Department of Parks, Recreation and Tourism
1205 Pendleton Street
Edgar Brown Building
Columbia, SC 29201
State Park Office Phone: 803-734-0156

**Aiken SP, page 5
**Barnwell SP, page 20
**Caesars Head SP, page 95
**Cheraw SP, page 61
**Croft SP, page 182
**Devils Fork SP, page 161
**Edisto Beach SP, page 38
**Goodale SP, page 122
**Hunting Island SP, page 22
**Huntington Beach SP, page 90
**Jones Gap SP, page 99
**Keowee-Toxaway SP, page 173
**Kings Mountain SP, page 197
**Lake Warren SP, page 105
**Landford Canal SP, page 52
**Lee SP, page 133
**Little Pee Dee SP, page 80
**Lynches River SP, page 88
**Old Santee Canal SP, page 34
**Poinsett SP, page 190
**Rivers Bridge SP, page 19
**Santee SP, page 166
**Table Rock SP, page 175
**Woods Bay SP, page 192

SC Forestry Commission
5500 Broad River Road
PO Box 21707
Columbia, SC 29210
Phone: 803-896-8800
**Sandhills SF, page 58

Silver Bluff Audubon Preserve
Phone: 803-827-0781
**See page 12

The Nature Conservancy of Georgia
1401 Peachtree St., NE, Suite 136
Atlanta, GA 30309
Phone: 404-873-6946
**Heggies Rock, page 199

The Nature Conservancy, South Carolina Chapter
2231 Devine Street, Suite 10
PO Box 5475
Columbia, SC 29250
Phone: 803-254-9049

Note: Often has information about the newest heritage preserves.

US Forest Service
4931 Broad River Road
Columbia, SC 29212
Phone: 803-561-4000
**Burrells Ford, page 153
**Cherry Hill Campground, page 153
**Enoree River Site, page 131
**Francis Marion National Forest, page 31
**King Creek Falls, page 153
**Molly's Rock Recreation Area, page 149
**Parsons Mountain, page 3
**Tyger River at Spark Creek, page 194
**Woods Ferry Recreation Area, page 54

Westvaco Paper Company
Phone: 843-871-5000
**Westvaco Bluff Trail, page 72

Yancy McLeod Wildlife Services
1 Cooks Mountain Road
Eastover, SC 29044
Phone: 803-353-0440 or 803-353-2522
**Cooks Mountain, page 179



(Photo by S. Gilbert)

Lynn Greenlee with eastern tiger swallowtail, *Papilio glaucus*.

Bibliography

The books on which SCAN has based its flora and fauna lists are marked by two astericks. The other books listed are ones that members have found helpful. There are many more identification books on the market than are listed here. We recommend you visit your local library and book stores to find the ones most helpful to you.

- ** Arnett, R.H., Jr. 1960. The beetles of the United States (a manual for identification). The Catholic University of America Press, Washington. 1112 pp.
- ** Arnett, R.H., Jr. 1993. American insects, a handbook of the insects of America north of Mexico. The Sandhill Crane Press, Inc., Gainesville, Florida.
- Baicich, Paul J. and Colin J.O. Harrison. 1997. A guide to the nests, eggs, and nestlings of North American birds. Academic Press. San Diego, Calif. 347 pp.
- Baker, O.E., III, and D.B. Carmichael, Jr. 1989. South Carolina's furbearers. South Carolina Wildlife and Marine Resources Department, Columbia, South Carolina. 33 pp.
- Behler, John L. and F. Wayne King. 1979. The Audubon Society field guide to North American reptiles and amphibians. Alfred A. Knopf. New York. 743 pp.
- Borror, Donald J. and Richard E. White. 1970. A field guide to the insects of America north of Mexico. Houghton Mifflin Company. Boston, Mass. 404 pp.
- Brockman, C. Frank. 1968. Trees of North America, a field guide to the major native and introduced species north of Mexico. Golden Press. New York. 280 pp.
- Carter, R.M. 1993. Finding birds in South Carolina. University of South Carolina Press, Columbia, South Carolina. 254 pp.
- ** Cassie, B., J. Glassberg, P. Opler, R. Robbins, and G. Tudor. 1995. North American Butterfly Association (NABA) checklist and English names of North American butterflies. North American Butterfly Association, Morristown, New Jersey. 43 pp.
- ** Ciegler, A. 1997. South Carolina lichens: A preliminary survey. *Evansia* 14(2):29-41.
- Ciegler, J.C. 1997. Tiger beetles of South Carolina (Coleoptera: Cicindelidae). *Coleopterists Bulletin*, 51(2):177-192.
- ** Ciegler, J.C. 1999. Ground beetles and wrinkled bark beetles of South Carolina (Coleoptera: Geadephaga: Carabidae and Rhysodidae). Clemson, South Carolina. In press.
- Claridge, Edward and Betty Ann Milligan. 1992. Animal Signatures. The Nova Scotia Museum field guide series. Nimbus Publishing. Halifax, Nova Scotia. 72 pp.
- Clark, William S. 1987. A field guide to hawks, North America. Houghton Mifflin Company. Boston. 198 pp.
- Cobb, Boughton. 1963. A field guide to the ferns and their related families of northeastern and central North America. Houghton Mifflin Company. Boston, Mass. 281 pp.
- Conant, Roger, Robert C. Stebbins and Joseph T. Collins. 1992. Peterson first guide to reptiles and amphibians. Houghton Mifflin Company. New York, NY. 128 pp.
- Conant, Roger and Joseph T. Collins. 1991. A field guide to reptiles and amphibians, eastern and central North America. Houghton Mifflin Company. Boston, Mass. 450 pp.
- ** Covell, C.V., Jr. 1984. A field guide to the moths of eastern North America. Houghton Mifflin Company, Boston. 496 pp.
- Downie, N.M., and R.H. Arnett, Jr. 1996. The beetles of northeastern North America. Volume I and Volume II. The Sandhill Crane Press, Gainesville, Florida. 1721 pp.
- Dunkle, S.W. 1989. Dragonflies of the Florida peninsula, Bermuda, and the Bahamas. Scientific Publishers, Gainesville, Florida. 154 pp.

- Dunkle, S.W. 1990. Damselflies of Florida, Bermuda, and the Bahamas. Nature Guide No. 3. Scientific Publishers, Gainesville, Florida. 148 pp.
- ** Emerson, W.K., and M.K. Jacobson. 1976. The American Museum of Natural History guide to shells: Land, freshwater, and marine, from Nova Scotia to Florida. Alfred A. Knopf, New York. 482 pp.
- Emerton, James H. 1961. The common spiders of the United States. Dover Publications, Inc. New York. 227 pp.
- ** Gaddy, L.L. and J.C. Morse. 1985. Common spiders of South Carolina, with an annotated checklist. Technical Bulletin 1094, South Carolina Agricultural Experiment Station, Clemson University, Clemson, South Carolina. 182 pp.
- Giffen, M. 1997. South Carolina, A guide to backcountry travel and adventure. Out There Press, Asheville, North Carolina. 262 pp.
- Glassberg, Jeffrey. 1999. Butterflies through binoculars, a field guide to the butterflies of eastern North America. Oxford University Press. Oxford, New York. 242 pp.
- Gupton, Oscar W. and Fred C. Swope. 1989. Fall Wildflowers of the Blue Ridge and Great Smoky Mountains. University Press of Virginia. Charlottesville, Virginia. 208 pp.
- ** Hale, M.E. 1979. How to know the lichens. Wm. C. Brown Publishers, Dubuque, Iowa. 246 pp.
- Halfpenny, James. 1986. A field guide to mammal tracking in North America. Johnson Books. Boulder. 161 pp.
- Hallowell, Anne C. and Barbara G. Hallowell. 1981. Fern finder: a guide to native ferns of northeast and central North America. Nature Study Guide. Berkeley, Calif. 59 pp.
- Harpootlian, P.J. 1999. The scarab beetles (Scarabaeidae) of South Carolina. Clemson University, Clemson, South Carolina. In press.
- Harrison, Hal H. 1975. A field guide to birds' nests. United States east of the Mississippi River. Houghton Mifflin Company. Boston, Mass. 257 pp.
- Headstrom, R. 1971. Identifying animal tracks. Mammals, birds, and other animals of the eastern United States. Dover Publications, Inc., New York. 141 pp.
- Heffer, J.R. 1987. How to know the grasshoppers, crickets, cockroaches and their allies. Dover Publications, Inc., New York. 364 pp.
- Holland, W.J. 1968. The moth book, a guide to the moths of North America. Dover publications, Inc. New York, NY. 479 pp.
- Jerman, P.L. 1998. South Carolina nature viewing guide. South Carolina Department of Natural Resources, Columbia. 112 pp.
- Johnson, B.A., ed. 1993. South Carolina Association of Naturalists: Scanning the wonders of our natural world, the first ten years. Editorial Resources Unlimited, Columbia, South Carolina. 517 pp.
- ** Kaplan, E.H. 1988. A field guide to southeastern and Caribbean seashores: Cape Hatteras to the Gulf Coast, Florida, and the Caribbean. Houghton Mifflin Company, Boston. 425 pp.
- Kaston, B.J. 1978. How to know the spiders. The Pictue Key Nature Series. William C. Brown Company Publishers. Dubuque, Iowa. 272 pp.
- Levi, H.W., and L.R. Levi. 1987. Spiders and their kin. Golden Press, New York. 160 pp.
- ** Lincoff, G.H. 1981. The Audubon Society field guide to North American mushrooms. Alfred A. Knopf, New York. 926 pp.
- Manley, D.G. 1991. The velvet ants (Hymenoptera: Mutillidae) of South Carolina. Clemson University, Clemson, South Carolina. 55 pp.
- ** Martof, B.S., W.M. Palmer, J.R. Bailey, and J.R. Harrison III. 1980. Amphibians and reptiles of the Carolinas and Virginia. University of North Carolina Press, Chapel Hill, North Carolina.
- McKnight, Kent H. and Vera B. McKnight. 1987. A field guide to mushrooms of North America. Houghton Mifflin Company. Boston, Mass. 429 pp.

- Milne, Lorus and Margery Milne. 1995. National Audubon Society field guide to North American insects and spiders. Alfred A. Knopf. New York. 989 pp.
- Mitchell, Robert T. and Herbert S. Zim. 1964. Butterflies and moths, a guide to the more common American species. Golden Press. New York. 160 pp.
- Mohlenbrock, Robert H. and John W. Thieret. 1987. Trees, a quick reference guide to trees of North America. Macmillan Publishing Company. New York. 155 pp.
- Moody, Richard. 1986. Fossils. How to find and identify over 300 genera. Macmillan Publishing Company. New York. 192 pp.
- Murphy, Carolyn Hanna. 1995. Carolina rocks! The geology of South Carolina. Sandlapper Publishing Co., Inc. Orangeburg, South Carolina. 261 pp.
- Neelands, R.W. 1974. Important trees of eastern forest. U.S. Department of Agriculture, Forest Service. 111 pp.
- Niering, William A. 1995. National Audubon Society field guide to North American wildflowers. Alfred A. Knopf. New York. 887 pp.
- Opler, P.A., and G.O. Krizek. 1984. Butterflies east of the Great Plains. The Johns Hopkins University Press, Baltimore. 294 pp.
- Opler, Paul A. 1994. Peterson first guide to butterflies and moths. Houghton Mifflin Company. New York, NY. 128 pp.
- ** Otte, D. 1981. The North American grasshoppers. Volume 1. Acrididae: Gomphocerinae and Acridinae. Harvard University Press, Cambridge, Massachusetts. 275 pp.
- ** Otte, D. 1984. The North American grasshoppers. Volume 2. Acrididae: Oedipodinae. Harvard University Press, Cambridge, Massachusetts. 366 pp.
- Peterson, Roger Tory. 1986. Peterson first guide to birds of North America. Houghton Mifflin Company. New York. 128 pp.
- Petrides, George A. 1988. A field guide to eastern trees, eastern United States and Canada. Houghton Mifflin Company. Boston. 272 pp.
- Porcher, Richard D. 1995. Wildflowers of the Carolina Lowcountry. University of South Carolina Press. Columbia, SC. 302 pp.
- Potter, Eloise F., James F. Parnell and Robert P. Teulings. 1980. Birds of the Carolinas. The University of North Carolina Press. Chapel Hill. 408 pp.
- ** Purvis, O.W., B.J. Coppins, D.L. Hawksworth, P.W. James, and D.M. Moore. 1992. The lichen flora of Great Britain and Ireland. Natural History Museum Publications, London. 710 pp.
- Pyle, Robert Michael. 1981. The Audubon Society field guide to North American butterflies. Alfred A. Knopf, New York. 916 pp.
- ** Radford, A.E., H.E. Ahles, and C.R. Bell. 1968. Manual of the vascular flora of the Carolinas. University of North Carolina Press, Chapel Hill, North Carolina. 1183 pp.
- Robbins, Chandler S., Bertel Bruun and Herbert S. Zim. Birds of North America. Golden Press. New York. 340 pp.
- ** Ruppert, E.E., and R.S. Fox. 1988. Seashore Animals of the Southeast. University of South Carolina Press, Columbia, South Carolina. 429 pp.
- ** Scott, S.L., ed. 1983. Field guide to the birds of North America. National Geographic Society, Washington. 464 pp.
- Shuttleworth, Floyd S. and Herbert S. Zim. 1987. Mushrooms and other non-flowering plants. Golden Press. New York. 160 pp.
- Slater, J.A., and R.M. Baranowski. 1978. How to know the true bugs. Wm. C. Brown Co., Dubuque, Iowa. 256 pp.
- Smith, Hobart M. and Edmond D. Brodie, Jr. 1982. Reptiles of North America. Golden Press. New York. 240 pp.

- Stokes, Donald and Lillian Stokes. 1996. Stokes field guide to birds. Eastern region. Little, Brown and Company. Boston. 471 pp.
- Thompson, Ida. 1982. The Audubon Society field guide to North American Fossils. Alfred A Knopf. New York. 846 pp.
- ** Thompson, P. 1985. Thompson's guide to freshwater fishes. How to identify the common freshwater fishes of North America. Houghton Mifflin Co., Boston. 205 pp.
- Watts, May Theilgaard. 1991. Tree finder, a manual for the identification of trees by their leaves. Rochester, NY. 58 pp.
- ** Webster, W.D., J.F. Parnell, and W.C. Biggs, Jr. 1985. Mammals of the Carolinas, Virginia, and Maryland. University of North Carolina Press, Chapel Hill, North Carolina. 255 pp.
- Westfall, M.J., Jr., and M.L. May. 1996. Damselflies of North America. Scientific Publishers, Gainesville, Florida. 650 pp.
- ** White, T.R., K.J. Tennessen, R.C. Fox, and P.H. Carlson. 1980. The aquatic insects of South Carolina. Part I: Anisoptera (Odonata). Station Bulletin 632, South Carolina Agricultural Experiment Station, Clemson University, Clemson, South Carolina. 153 pp.
- ** White, T.R., K.J. Tennessen, R.C. Fox, and P.H. Carlson. 1983. The aquatic insects of South Carolina. Part II: Zygoptera (Odonata). Station Bulletin 648, South Carolina Agricultural Experiment Station, Clemson University, Clemson, South Carolina. 72 pp.
- Wilson, Jim and Anselm Atkins. 1998. Common birds of Atlanta. Hexagon Publications. Decatur, GA. 59 pp.
- Wright, Amy Bartlett. 1993. Peterson's first guide to caterpillars of North America. Houghton Mifflin Company. Boston, Mass. 128 pp.



(Photo by Fran Boels)

Frances Crawford



Common Name List

In the index which follows, flora and fauna are listed together in alphabetical order by scientific name. If you do not know the scientific name, first find the common name and make a note of the scientific name. Then refer to the Scientific Name Index to locate the county or counties in which the plant or animal has been seen.

Field trip reports are arranged by counties in alphabetical order. Species are organized under each field trip report in a taxonomic order developed by SCAN and based on standard taxonomic schemes. Flora are listed first; fauna are listed second; fossils are listed last.

- Acanthospermum: *Acanthospermum australe*
 Adder's-mouth, Green: *Malaxis unifolia*
 Admiral, Red: *Vanessa atalanta rubria*
 Agaric, Fly: *Amanita muscaria*, *Amanita muscaria formosa*
 Agaric, Orange Moss: *Rickenella fibula*
 Agrimony: *Agrimonia parviflora*
 Alder, Tag: *Alnus serrulata*
 Alga: *Protococcus* sp.
 Alligator, American: *Alligator mississippiensis*
 Alligator-weed: *Alternanthera philoxeroides*
 Aloe, False: *Agave virginica*
 Alumroot: *Heuchera americana*, *Heuchera villosa*,
Heuchera sp.
 Amanita, Booted: *Amanita cothurnata*
 Amanita, Citron: *Amanita citrina*
 Amanita, Cleft-foot: *Amanita brunneescens*
 Amanita, Gemmed: *Amanita gemmata*
 Amanita, Rag-veil: *Amanita cinereopannosa*
 Amanita, Strangulated: *Amanita inaurata*
 Amaranth, Beach: *Amaranthus pumilus*
 Amberwing, Eastern (dragonfly): *Perithemis tenera*
 Amphipod: *Crangonyx serratus*
 Andromeda: *Pieris floribunda*
 Angelica: *Angelica venenosa*, *Angelica* sp.
 Angel's-wings: *Pleurocybella porrigens*
 Angel-wing (shell): *Cyrtopleura costata*
 Angel-wing, False (shell): *Petricola pholadiformis*
 Angle, Minor (moth): *Semiothisa minorata*
 Angle-pod: *Matelea gonocarpa*, *Matelea suberosa*,
Matelea sp.
 Anglewing (butterfly): *Polygonia* sp.
 Anhinga: *Anhinga anhinga*
 Anise: *Illicium* sp.
 Anise-root: *Osmorhiza claytonii*
 Anne's-lace, Queen: *Daucus carota*
 Anoda: *Anoda cristata*
 Anole, Carolina: *Anolis carolinensis*
 Ant, Black Carpenter: *Camponotus pennsylvanicus*
 Ant, Fire: *Solenopsis geminata*, *Solenopsis* sp.
 Ant, Florida Carpenter: *Camponotus abdominalis*
 Ant, Florida Harvester: *Pogonomyrmex badius*
 Ant, Red Imported Fire: *Solenopsis invicta*
 Ant: *Crematogaster ashmeadi*
 Anthaenania (grass): *Anthaenania villosa*
 Antlion: *Myrmeleon immaculatum*, *Myrmeleon* sp.
 Aphid, Poplar Petioleball: *Pemphigus populitransversus*
 Aphid, Woolly Alder: *Prociphilus tessellatus*
 Apple, Azalea Pinkster: *Exobasidium vaccinii*
 Apple, Blackjack Oak (gall wasp): *Disholcaspis lapiei*
 Apple, Common: *Malus pumila*
 Arabis: *Arabis laevigata*
 Ark, Blood: *Anadara ovalis*
 Ark, Incongruous: *Anadara brasiliana*
 Ark, Ponderous: *Noetia ponderosa*
 Ark, Transverse: *Anadara transversa*
 Ark: *Anadara aequicostata*, *Anadara lienosa*, *Noetia limula*
 Armadillo (scute): *Chlamydotherium* sp.
 Arrowhead, Bunched: *Sagittaria fasciculata*
 Arrowhead: *Sagittaria engelmanniana*, *Sagittaria falcata*,
Sagittaria graminea graminea, *Sagittaria latifolia*,
Sagittaria sp.
 Arrowwood: *Viburnum dentatum*, *Viburnum dentatum*
lucidum
 Arum, Arrowleaf: *Peltandra virginica*
 Ash, American: *Fraxinus americana*
 Ash, Green: *Fraxinus pennsylvanica*, *Fraxinus*
pennsylvanica subintegerrima

- Ash, Pumpkin: *Fraxinus tomentosa*
 Ash, Red: *Fraxinus tomentosa*
 Ash, Water: *Fraxinus caroliniana*
 Ash, White: *Fraxinus americana americana*, *Fraxinus americana biltmoreana*
 Ash: *Fraxinus* sp.
 Asparagus: *Asparagus officinalis*
 Asphodel, False: *Tofieldia racemosa*
 Aster, Climbing: *Aster carolinianus*
 Aster, Frost: *Aster pilosus*, *Aster pilosus pilosus*
 Aster, Heart-leaved: *Aster divaricatus*, *Aster cordifolius*
 Aster, Salt-marsh: *Aster tenuifolius*
 Aster, Starved: *Aster lateriflorus*
 Aster, Stiff-leaved: *Aster linariifolius*
 Aster, White-topped: *Aster paternus*, *Aster solidagineus*, *Aster tortifolius*
 Aster: *Aster concolor*, *Aster curtisii*, *Aster dumosus*, *Aster puniceus*, *Aster squarrosus*, *Aster undulatus*, *Aster* sp.
 Atamasco-lily: *Zephyranthes atamasco*
 Avena: *Geum* sp.
 Avocet, American: *Recurvirostra americana*
 Azalea, Dwarf: *Rhododendron atlanticum*
 Azalea, Flame: *Rhododendron calendulaceum*
 Azalea, Hammocksweet: *Rhododendron viscosum serrulatum*
 Azalea, Piedmont: *Rhododendron canescens*
 Azalea: *Rhododendron* sp.
 Azure, Spring (butterfly): *Celastrina ladon*, *Lycaenopsis argiolus*
 Baby-blue-eyes: *Nemophila microcalyx*
 Baby's-ear (shell): *Sinum perspectivum*
 Backswimmer: *Notonecta* sp.
 Bald-cypress: *Taxodium distichum*
 Bamboo, Yellow-groove: *Phyllostachys aurea*
 Band-winged Grasshopper: *Pseudotettix fenestralis*
 Bancberry: *Actaea pachypoda*
 Barbara's-buttons: *Marshallia graminifolia*, *Marshallia obovata*
 Barnacle, Ivory: *Balanus eburneus*
 Barnacle, Rock: *Balanus* sp.
 Barnacle, Sea-whip: *Conopea galeata*
 Barnacle, Tropical Goose: *Lepas anatifera*
 Baskettail, Common (dragonfly): *Epitheca cynosura*
 Baskettail, Mantled (dragonfly): *Epitheca semiaquea*
 Bass, Largemouth: *Micropterus salmoides*
 Basswood: *Tilia americana*, *Tilia caroliniana*, *Tilia heterophylla*, *Tilia* sp.
 Bastard-toadflax: *Comandra umbellata*
 Batchelor's-buttons: *Centaurea cyanus*
 Bayberry, Southern: *Myrica cerifera*
 Bayberry, Swamp: *Myrica heterophylla*
 Beach-elder: *Iva imbricata*
 Beachhopper, Saltmarsh: *Orchestia grillus*
 Beach-pea: *Strophostyles helvola*
 Beak-rush: *Rhynchospora cephalantha*, *Rhynchospora chalarocephala*, *Rhynchospora corniculata*, *Rhynchospora debilis*, *Rhynchospora filifolia*, *Rhynchospora globularis*, *Rhynchospora glomerata*, *Rhynchospora grami*, *Rhynchospora inexpansa*, *Rhynchospora intermixta*, *Rhynchospora macrostachya*, *Rhynchospora megalocarpa*, *Rhynchospora perplexa*, *Rhynchospora plumosa*, *Rhynchospora rariflora*, *Rhynchospora torreyana*, *Rhynchospora* sp.
 Bean, Wild: *Strophostyles helvola*
 Beardtongue: *Penstemon* sp.
 Bear-grass: *Yucca filamentosa*
 Bearsfoot: *Polymnia uvedalia*
 Beautyberry: *Callicarpa americana*
 Beaver (dam): *Castor canadensis*
 Beaver (gnaw mark): *Castor canadensis*
 Beaver: *Castor canadensis*
 Bedstraw: *Galium circaeans*, *Galium hispidulum*, *Galium* sp.
 Bee, Carpenter: *Xylocopa virginica*, *Xylocopa* sp.
 Bee, Honey: *Apis mellifera*
 Bee, Leaf-cutting: *Megachile* sp.
 Bee-balm: *Monarda clinopodia*, *Monarda didyma*
 Beech: *Fagus grandifolia*
 Beech-drops: *Epifagus virginiana*
 Beech-Fern, Broad: *Thelypteris hexagonoptera*
 Beetle Short-horned Leaf: *Saxinus omogera*
 Beetle, 12-spotted Cucumber: *Diabrotica duodecimpunctata*
 Beetle, Alder Leaf: *Chrysomela interrupta*
 Beetle, Alligatorweed Flea: *Agasicles hygrophila*
 Beetle, Ambrosia: *Xylorhynchus inermis*
 Beetle, Ant-like Leaf: *Arietus* sp.
 Beetle, Ant-like Longhorn: *Eudermes picipes*
 Beetle, Ant-nest Scarab: *Cremastocleonus castaneae*
 Beetle, Aphodiine Dung: *Aphodius lividus*, *Aphodius* sp., *Ataenius cognatus*, *Ataenius* sp.
 Beetle, Asiatic Garden: *Maladera castanea*
 Beetle, Azalea Leaf: *Galerucella rufosanguinea*
 Beetle, Bark-gnawing: *Corticotomus* sp., *Tenebroides dubia*, *Tenebroides laticollis*
 Beetle, Bean Leaf: *Ceratomyia trifurcata*
 Beetle, Black Blister: *Epicauda pennsylvanica*
 Beetle, Black-spotted Lady: *Anatis 15-punctata*
 Beetle, Blister: *Epicauda trichrus*, *Epicauda vittata*, *Epicauda* sp., *Lytta aenea*, *Meloe* sp., *Nemognatha piazzata*, *Pyrota lineata*
 Beetle, Blue-black Blister: *Meloe angusticollis*
 Beetle, Branch Twig Borer: *Dysides obscurus*
 Beetle, Broad-bodied Leaf: *Calligrapha rhoda*, *Chrysomela scripta*, *Prasocuris vittata*, *Zymogramma suturalis*
 Beetle, Buprestid: *Buprestis rufipes*, *Dicerca divaricata*, *Dicerca tuberculata*
 Beetle, Burrowing Water: *Copius inflatus*, *Hydrocanthus iricolor*, *Hydrocanthus oblongus*, *Suphisellus* sp.

- Beetle, Carrion: *Nicrophorus* sp., *Silpha americana*, *Silpha inaequalis*, *Silpha noveboracensis*, *Silpha surinamensis*
- Beetle, Checkered: *Enoclerus ichneumoneus*, *Enoclerus thoracicus*, *Thanasimus* Dubius
- Beetle, Click: *Agriotes* sp., *Ampedus areolatus*, *Ampedus* sp., *Athous rufifrons*, *Cardiophorus* sp., *Heteroderes* sp., *Horistonotus curvatus*, *Lacon marmoreus*, *Limonius* sp.
- Beetle, Colorful Foliage Ground: *Apenes sinuata*, *Cymindis americana*, *Lebia analis*, *Lebia lobulata*, *Lebia ornata*, *Nemotarsus elegans*
- Beetle, Comb-clawed: *Hymenorus* sp., *Isomira sericea*, *Isomira* sp.
- Beetle, Contractile Scarab: *Cloeotus aphodioides*
- Beetle, Convergent Lady: *Hippodamia convergens*
- Beetle, Corn Flea: *Chaetocnema pulicaria*
- Beetle, Corn-seed: *Agonoderus lecontei*
- Beetle, Crab-like Rove: *Lordithon pygmaeus*, *Lordithon* sp., *Tachinus axillaris*, *Tachinus* sp.
- Beetle, Crawling Water: *Haliphys fasciatus*, *Haliphys triopsus*, *Peltodytes dietrichi*, *Peltodytes diodecimpunctatus*, *Peltodytes muticus*, *Peltodytes oppositus*, *Peltodytes sexmaculatus*, *Peltodytes shermani*, *Peltodytes* sp.
- Beetle, Cross-toothed Rove: *Oxyporus femoralis*, *Oxyporus* sp.
- Beetle, Cucumber: *Diabrotica* sp.
- Beetle, Cylindrical Bark: *Bitoma* sp., *Colydium lineola*, *Philothermus glabriculus*
- Beetle, Dermestid: *Cryptorhopalum picicorne*, *Cryptorhopalum* sp.
- Beetle, Dingy Ground: *Agonoderus* sp., *Anisodactylus rusticus*, *Anisodactylus sayi*, *Anisodactylus* sp., *Discoderus paralleleus*, *Discoderus* sp., *Harpalus caliginosus*, *Harpalus pennsylvanicus*, *Harpalus spadiceus*, *Selenophorus ellipticus*, *Stenolophus ochropezus*
- Beetle, Dung: *Ateuchus* sp., *Copris carolina*, *Onthophagus hecate*, *Onthophagus janus*, *Onthophagus orpheus*, *Onthophagus orpheus orpheus*, *Onthophagus tuberculifrons*, *Onthophagus* sp., *Phanaeus igneus*, *Phanaeus nigrocyanus*, *Phanaeus vindex*, *Phanaeus* sp.
- Beetle, Dung: *Canthon chalcites*, *Glaphyrocanthon viridis*
- Beetle, Dusky Lady: *Scymnus puncticollis*, *Scymnus terminatus*, *Scymnus* sp.
- Beetle, E. Spotted Cucumber: *Diabrotica undecimpunctata howardi*
- Beetle, Earth-boring Dung: *Bolboceras* sp., *Geotrupes blackburnii* *blackburnii*, *Geotrupes egeriei*
- Beetle, Eggplant Flea: *Epithrix fuscata*
- Beetle, False Ant-like Flower: *Pedilus collaris*, *Pedilus* sp.
- Beetle, False Blister: *Asclera ruficollis*, *Asclera* sp., *Oxacts* sp., *Oxyopsis* sp., *Xanthochroa* sp.
- Beetle, False Bombardier: *Galeritula bicolor*
- Beetle, False Darkling: *Allopora lutea*, *Anaspis* sp., *Canifa pallipes*, *Eustrophinus bicolor*
- Beetle, False Skin: *Diplocoelus rudis*
- Beetle, Feather-winged: *Nossidium* sp.
- Beetle, Flat Bark: *Bronites dubius*, *Laemophloeus modestus*, *Silvanus bidentatus*
- Beetle, Flat-faced Longhorn: *Goes oculata*, *Hippopsis lemniscata*
- Beetle, Flea: *Altica marevagans*, *Altica* sp., *Crepidodera nitens*, *Dibolia* sp., *Disonychia abbreviata*, *Disonychia caroliniana*, *Disonychia collata*, *Disonychia* sp., *Oedionychis miniata*, *Oedionychis* sp., *Systema elongata*, *Systema frontalis*, *Systema taeniata*
- Beetle, Flower Longhorn: *Anoplodera mutabilis*, *Anoplodera* sp., *Gaurotes cyanipennis*, *Grammoptera* sp., *Leptura lineola*, *Rhagium inquisitor*, *Strangalina bicolor*, *Strangalina famelica*, *Strangalina luteicornis*, *Toxotus cinnamopterus*, *Typocerus velutinus*, *Typocerus* sp.
- Beetle, Flower Scarab: *Euphoria sepulchralis*, *Trichiotinus piger*, *Trigonopeltastes delta*, *Trigonopeltastes* sp.
- Beetle, Four-spotted Blister: *Tetraonyx* sp.
- Beetle, Garden: *Serica* sp.
- Beetle, Giant Stag: *Lucanus elaphus*
- Beetle, Giant Water Scavenger: *Dibolocelus ovalis*, *Hydrophilus triangularis*
- Beetle, Grape Flea: *Altica chalybea*
- Beetle, Grape: *Pelidnota* sp.
- Beetle, Green Foliage Ground: *Lebia viridis*
- Beetle, Green June: *Cotinus nitida*
- Beetle, Green Tiger: *Cicindela sexguttata*
- Beetle, Ground: *Calosoma scrutator*
- Beetle, Handsome Fungus: *Stenotarsus* sp.
- Beetle, Hickory Girdler: *Oncideres cingulata*
- Beetle, Hister: *Epiurus pulicarius*, *Hister depurator*, *Margarinotus* sp., *Platysoma carolinus*, *Platysoma lecontei*
- Beetle, Hister-like Dung: *Ateuchus histeroides*
- Beetle, Horned Fungus: *Bolitotherus cornutus*
- Beetle, Japanese: *Popillia japonica*
- Beetle, June: *Phyllophaga ilicis*, *Phyllophaga grandis*, *Phyllophaga prunina*, *Phyllophaga* sp.
- Beetle, Kalmia Flea: *Altica viridana*
- Beetle, Lady: *Brachycantha* sp., *Coccinella* sp., *Coleomegilla fuscilabris*, *Hyperaspis* sp.
- Beetle, Lagriid Bark: *Statira* sp.
- Beetle, Large Rove: *Staphylinus cinnamopterus*, *Staphylinus fossator*, *Staphylinus maxillosus*, *Staphylinus* sp.
- Beetle, Larger Elm Leaf: *Monocesta coryli*
- Beetle, Leaf Buprestid: *Brachys aerossus*, *Brachys* sp.
- Beetle, Leaf: *Anomoa* sp., *Coscina pterodromica*, *Oedionychis conicina*
- Beetle, Leaf-mining: *Anoplitis inaequalis*, *Chalepus scapularis*
- Beetle, Lightning: *Elychnia* sp., *Lucidota atra*, *Lucidota* sp., *Phaeniscus* sp., *Photinus pyralis*, *Photuris* sp.

- Beetle, Lizard: *Languria lecontei*, *Languria mozdari*
 Beetle, Locust Leaf-mining: *Chalepion dorsalis*
 Beetle, Longhorn: *Hyperplatys maculatus*, *Megacyllene robiniae*, *Oberia basalis*
 Beetle, Long-horned Leaf: *Donacia subtilis*, *Donacia* sp.
 Beetle, Long-jointed Bark: *Arthromacra aenea*
 Beetle, Marsh: *Cyphon obscurus*, *Cyphon variabilis*,
Cyphon sp., *Prionocyphon discoideus*, *Scirtes orbiculatus*, *Scirtes* sp.
 Beetle, Metallic Wood-boring: *Taphrocerus* sp.
 Beetle, Minute Ground: *Bembidion americanum*, *Bembidion confusum*, *Bembidion dilatatum*, *Bembidion versicolor*, *Bembidion* sp., *Miopotachys flavicauda*, *Tachys ephippiatus*, *Tachys nana inornata*
 Beetle, Minute Lady: *Delphastus pusillus*
 Beetle, Minute Tree-fungus: *Xestocis* sp.
 Beetle, Multicolored Asian Lady: *Harmonia axyridis*
 Beetle, Narrow-waisted Bark: *Mycterus scaber*
 Beetle, Net-winged: *Caenia dimidiata*, *Calopteron reticulatum*, *Calopteron* sp., *Eros humeralis*, *Plateros lictor*, *Plateros sollicitus*, *Plateros* sp.
 Beetle, Notch-mouthed Ground: *Dicaeolus ambiguus*, *Dicaeolus dilatatus*, *Dicaeolus elongatus*, *Dicaeolus ovalis*, *Dicaeolus* sp.
 Beetle, Oak Flea: *Oedionychis quercata*
 Beetle, Obscure Rove: *Aleochara* sp., *Eros flaviola*, *Atheta pennsylvanica*, *Atheta* sp., *Gyrophaena cornuscula*, *Gyrophaena dissimilis*
 Beetle, Oval Ground: *Oodes amaroides*
 Beetle, Oval Leaf: *Colaspis favosa*, *Colaspis* sp., *Graphops curtispennis*, *Metachroma longicollis*, *Metachroma pallidum*, *Nodonota tristis*, *Nodonota* sp., *Paria canella aterrimus*, *Paria canella gilvipes*, *Paria canella quadrinotata*, *Paria sellatus*, *Paria thoracica*, *Rhabdopterus picipes*, *Rhabdopterus* sp.
 Beetle, Paederine Rove: *Rugilus dentatus*, *Sumius* sp.
 Beetle, Pale-striped Flea: *Systema blanda*
 Beetle, Palmetto Tortoise: *Hemisphaerota cyanea*
 Beetle, Pedunculate Ground: *Ardistomis viridis*, *Ardistomis* sp., *Clivina rufa*, *Dyschirius* sp., *Psamachus depressus*, *Psamachus sublaevis*, *Psamachus* sp., *Scarites subterraneus*, *Scarites* sp.
 Beetle, Pinhole Borer: *Platypus flavicornis*
 Beetle, Pleasing Fungus: *Megalodacne fasciata*, *Megalodacne heros*, *Triplax macra*, *Triplax thoracica*, *Triplax* sp., *Tritoma angulata*, *Tritoma thoracica*, *Tritoma* sp.
 Beetle, Predacious Diving: *Agabetes acuductus*, *Agabus johannis*, *Agabus punctatus*, *Bidessus* sp., *Copelatus chevrolati chevrolati*, *Coptotomus interrogatus*, *Coptotomus lenticus*, *Graphoderus liberus*, *Hydroporus carolinus*, *Hydroporus cinctoides*, *Hydroporus clypealis*, *Hydroporus hybridus*, *Hydroporus lobatus*, *Hydroporus niger*, *Hydroporus undulatus*, *Hydroporus vittatipennis*, *Hydroporus* sp., *Hydrovatus pustulatus*, *Ilybius biguttulus*, *Laccophilus fasciatus*, *Laccophilus fasciatus rufus*, *Laccophilus maculosus maculosus*, *Laccophilus proximus*, *Laccophilus schwartzi*, *Thermonectes basilaris*, *Thermonectus basilaris basilaris*
 Beetle, Punctate Leaf: *Orsodacne atra*, *Syneta* sp.
 Beetle, Purple Ground: *Dicaeolus purpuratus*
 Beetle, Red Net-winged: *Dictyopteris aurora*
 Beetle, Red-bellied Tiger: *Cicindela rufiventris*
 Beetle, Red-horned Grain: *Platydema ruficornis*
 Beetle, Rhinoceros: *Strategus antaeus*, *Strategus* sp., *Xyloryctes jamaicensis*,
 Beetle, Rifle: *Limnius latiusculus*
 Beetle, Round Sand: *Omophron americanum*
 Beetle, Round-necked Longhorn: *Elaphidion mucronatum*, *Molochrus bimaculatus*, *Molochrus* sp., *Tilloclitus geminata*
 Beetle, Rove: *Anthobium* sp., *Conotelus* sp., *Omalium* sp., *Ontholestes* sp., *Quedius* sp., *Oxyopoda* sp., *Oxytelus* sp., *Tachinus axillaris*
 Beetle, Sap-feeding: *Carpophilus floralis*, *Carpophilus* sp., *Epnuraea* sp., *Pallodes* sp., *Pocadius* sp., *Prometopia sexmaculata*, *Stelidota* sp.
 Beetle, Scarab: *Dichelonyx elongata*, *Dichelonyx fuscata*, *Dichelonyx subvittata*, *Dichelonyx* sp.
 Beetle, Scarab: *Valgus* sp.
 Beetle, Seed-eating Ground: *Amara cupreolata*, *Amara* sp.
 Beetle, Seven-spotted Lady: *Coccinella septempunctata*
 Beetle, Shining Flower: *Acyclomus piceus*, *Acylomus* sp., *Olibrus* sp.
 Beetle, Shining Fungus: *Scaphisoma convexa*, *Scaphisoma suturalis*
 Beetle, Shining Leaf: *Lema albi*, *Lema sayi*, *Lema* sp.
 Beetle, Silken Fungus: *Henoticus* sp.
 Beetle, Skeletonizing Leaf: *Galerucella notulata*, *Galerucella nymphaeae*, *Luperodes cyanellus*, *Luperodes* sp.
 Beetle, Skin: *Dermestes talpinus*, *Trox tuberculatus*, *Trox tuberculatus*, *Trox* sp.
 Beetle, Small Carrier: *Catops* sp.
 Beetle, Smartweed Flea: *Disonychia pennsylvanica*
 Beetle, Soft-bodied Plant: *Ptilodactyla* sp.

- Beetle, Soft-winged Flower: *Ablechrus sp.*, *Attalus circumscriptus*, *Attalus scincetus*, *Attalus sp.*, *Collops quadrimaculatus*, *Collops vittatus*, *Collops sp.*, *Hypebaeus oblitus*, *Hypebaeus sp.*, *Melyrodes cribrata*, *Malachius sp.*
- Beetle, Soldier: *Cantharis bilineatus*, *Cantharis lineola*, *Cantharis sp.*, *Chauliognathus marginatus*, *Chauliognathus pennsylvanicus*, *Malthodes curvatus*, *Malthodes sp.*, *Podabrus basilaris*, *Podabrus sp.*, *Silis latilobus*, *Silis sp.*
- Beetle, Spotless Lady: *Cycloneda sanguinea*
- Beetle, Spotted Lady: *Coleomegilla maculata*
- Beetle, Stag: *Pseudolucanus placidus*
- Beetle, Striped Click: *Ctenicera sp.*
- Beetle, Striped Cucumber: *Acalymna vittatum*
- Beetle, Tiger: *Cicindela punctulata*, *Cicindela repanda*, *Cicindela scutellaris unicolor*, *Cicindela tranquebarica*, *Cicindela tortuosa*, *Cicindela unipunctata*, *Cicindela sp.*
- Beetle, Toed-winged: *Ptilodactyla serricollis*
- Beetle, Tooth-necked Longhorn: *Stenodontes dasytormus*
- Beetle, Tortoise: *Deloyola guttata*
- Beetle, Tumbling Flower: *Mordella atrata*, *Mordella melaena*, *Mordella sp.*, *Mordellistena ambusta*, *Mordellistena fuscata*, *Mordellistena pubescens*, *Mordellistena unicolor*, *Mordellistena sp.*
- Beetle, Twenty-spotted Lady: *Psyllobora vigintimaculata*
- Beetle, Twice-stabbed Lady: *Chilocorus stigma*
- Beetle, Warty Leaf: *Chlamisus gibbosus*
- Beetle, Water Scavenger: *Berosus aculeatus*, *Berosus infuscatus*, *Berosus pantherinus*, *Berosus sp.*, *Enochrus consortus*, *Enochrus ochraceus*, *Enochrus sublongus*, *Enochrus sp.*, *Helocombus bifidus*, *Hydrobius melaenus*, *Hydrochus excavatus*, *Hydrochus inaequalis*, *Hydrochara soror*, *Phaenonotum estriatum*, *Paracymus subcupreus*, *Tropisternus blatchleyi blatchleyi*, *Tropisternus collaris striolatus*, *Tropisternus lateralis nimbatus*, *Tropisternus mixtus*, *Tropisternus natator*, *Tropisternus quadristriatus quadristriatus*, *Tropisternus striolatus*
- Beetle, Water-penny: *Psephenus hericki*
- Beetle, Whirligig: *Dineutus assimilis*, *Dineutus carolinus*, *Dineutus discolor*, *Dineutus emarginatus*, *Dineutus horni*, *Dineutus robertsi*, *Dineutus serrulatus serrulatus*, *Dineutus sp.*, *Gyrinus analis*, *Gyrinus borealis*, *Gyrinus frosti*, *Gyrinus lugens*, *Gyrinus rockinghamensis*, *Gyrinus sp.*
- Beetle, White Beach Tiger: *Cicindela dorsalis media*
- Beetle, White-fringed: *Graphognathus leucocoloma*, *Graphognathus sp.*
- Beetle, Wide-necked Longhorn: *Prionus laticollis*
- Beetle, Woodland Ground: *Abacidus sculptus*, *Agonum extensicolle*, *Agonum errans*, *Agonum ferreus*, *Agonum moerens*, *Agonum sp.*, *Evarthrus sp.*, *Laxandrus minor*, *Odontonyx sp.*, *Piesmus mondelus*, *Pterostichus chalcites*, *Pterostichus sp.*
- Beetle, Yellow-marked Buprestid: *Acmaeodera tubulus*
- Beetle, Yellow-spotted Lady: *Brachyacantha ursina*
- Beggar-lice: *Desmodium sp.*
- Beggar-ticks: *Bidens frondosa*, *Bidens laevis*, *Bidens pilosa*, *Bidens sp.*, *Desmodium strictum*
- Belemnite: *Belemnitella americana*
- Bellwort: *Uvularia perfoliata*, *Uvularia pudica*, *Uvularia sessilifolia*, *Uvularia sp.*
- Bess-beetle: *Popilius disjunctus*
- Bicolor: *Lespedeza bicolor*
- Billbug: *Sphenophorus sp.*
- Billfish (bill fragment): *Cylindrocarchus rectus*
- Bindweed: *Calystegia sericata*
- Bindweed: *Polygonum convolvulus*
- Birch, Cherry: *Betula lenta*
- Birch, River: *Betula nigra*
- Birch, Yellow: *Betula lutea*
- Bird's-nest, White-egg: *Crucibulum laeve*
- Bird's-nest: *Cyathus sp.*
- Bishop's-weed, Mock: *Ptilimnium capillaceum*
- Bittern, American: *Botaurus lentiginosus*
- Bitterweed: *Helenium amarum*
- Blackberry: *Rubus argutus*, *Rubus canadensis*, *Rubus sp.*
- Blackbird, Brewer's: *Euphagus cyanocephalus*
- Blackbird, Red-winged: *Agelaius phoeniceus*
- Blackbird, Rusty: *Euphagus carolinus*
- Black-club: *Trichoglossum geoglossum*
- Black-eyed-Susan: *Rudbeckia hirta*, *Rudbeckia sp.*
- Blackfly: *Simulium sp.*
- Blackgum, Swamp: *Nyssa sylvatica biflora*
- Blackgum: *Nyssa sylvatica*
- Blackgum: *Nyssa sylvatica sylvatica*
- Black-haw, Rusty: *Viburnum rufidulum*
- Black-haw: *Viburnum prunifolium*
- Black-knot: *Apiosporina morbosus*
- Black-root: *Pterocaulon pycnostachyum*
- Black-trumpet: *Craterellus fallax*
- Bladdermut: *Staphylea trifolia*
- Bladderpod: *Glottidium vesicarium*
- Bladder-stalks: *Physalacria inflata*
- Bladderwort, Floating: *Utricularia inflata*
- Bladderwort, Purple: *Utricularia purpurea*
- Bladderwort, Wiry: *Utricularia subulata*
- Bladderwort: *Utricularia biflora*, *Utricularia sp.*
- Blazing-star: *Chamaelirium luteum*, *Liatris elegans*, *Liatris graminifolia*, *Liatris secunda*, *Liatris spicata*, *Liatris spicata resinosa*, *Liatris sp.*
- Bloodroot: *Sanguinaria canadensis*
- Bluebead-lily: *Clintonia borealis*

- Bluebell: *Campanula divaricata*
 Blueberry, Black Highbush: *Vaccinium atrococcum*
 Blueberry, Creeping: *Vaccinium crassifolium*
 Blueberry, Elliott's: *Vaccinium elliotii*
 Blueberry, Highbush: *Vaccinium corymbosum*
 Blueberry, Low-bush: *Vaccinium tenellum*, *Vaccinium vacillans*
 Blueberry: *Vaccinium constablaei*, *Vaccinium myrsinites*, *Vaccinium sp.*
 Bluebird, Eastern: *Sialia sialis*
 Blue-curls: *Trichostema dichotomum*
 Blue-eyed-grass: *Sisyrinchium albidum*, *Sisyrinchium angustifolium*, *Sisyrinchium mucronatum*, *Sisyrinchium mucronatum atlanticum*, *Sisyrinchium sp.*
 Bluegill: *Lepomis macrochirus*
 Bluespread, Velvet: *Pulcherrichium caeruleum*
 Blue-star: *Amsonia tabernaemontana*, *Amsonia ciliata*
 Bluestem, Little: *Andropogon scoparius*
 Bluet (damselfly): *Enallagma sp.* *Houstonia caerulea*, *Houstonia longifolia*, *Houstonia purpurea*, *Houstonia serpyllifolia*, *Houstonia tenuifolia*, *Houstonia sp.*
 Bluet, Atlantic (damselfly): *Enallagma doubledayi*
 Bluet, Blackwater (damselfly): *Enallagma weewa*
 Bluets, Small: *Houstonia pusilla*
 Bluets, Trailing: *Houstonia procumbens*
 Blusher, Yellow: *Amanita flavorubescens*
 Bobcat: *Felis rufus*
 Bobwhite, Northern: *Colinus virginianus*
 Bog-buttons: *Lachnocaulon anceps*, *Lachnocaulon beyrichianum*, *Lachnocaulon sp.*
 Bogmat: *Wolffella floridana*
 Bogmoss: *Mayaca aubletii*, *Mayaca fluviatilis*, *Mayaca sp.*
 Bolete, Birch: *Austroboletus betula*
 Bolete, Bitter: *Tylopilus felleus*
 Bolete, Frost's: *Boletus frostii*
 Bolete, Gilled: *Phylloporus rhodoxanthus*
 Bolete, Graceful: *Tylopilus gracilis*
 Bolete, King: *Boletus edulis*
 Bolete, Red-cracked: *Boletus chrysenteron*
 Bolete, Rosy Larch: *Fusoboletinus ochraceoroseus*
 Bolete, Shaggy-stalked: *Boletellus betula*
 Bolete, Violet-gray: *Tylopilus plumbeoviolaceus*
 Bolete, Yellow-cracked: *Boletus subtomentosus*
 Bolete, Zeller's: *Boletus zelleri*
 Bolete: *Austroboletus gracilis*, *Boletus curtisii*, *Boletus erythropus*
 Bonamia: *Bonamia humistrata*, *Bonamia sp.*
 Borer, Currant Tip: *Cyrtinus pygmaeus*
 Borer, Flat-headed Bald Cypress: *Acmaeodera pulchella*
 Borer, Large Flat-headed Pine: *Chalcophora virginienis*
 Borer, Locust: *Megacyllene robiniae*
 Borer, Stein: *Oberrea basalis*
 Boxelder: *Acer negundo*
 Brachyelytrum (grass): *Brachyelytrum erectum*
 Bracken: *Pteridium aquilinum*
 Bream: *Lepomis sp.*
 Breath-of-spring, Sweet: *Lonicera fragrantissima*
 Brittle-gill, Green: *Russula virescens*
 Broomrape: *Orobancha uniflora*
 Broomedge: *Andropogon ternarius*, *Andropogon virginicus*, *Andropogon sp.*
 Bryozoan, Rubbery: *Alcyonidium hauffi*
 Bryozoan, Variable Crust: *Schizoporella errata*
 Buchnera: *Buchnera floridana*
 Buckeye, Bottlebrush: *Aesculus parviflora*
 Buckeye, Common (butterfly): *Junonia coenia*
 Buckeye, Painted: *Aesculus sylvatica*
 Buckeye, Red: *Aesculus pavia*
 Buckeye, Yellow: *Aesculus octandra*
 Buckeye: *Aesculus sp.*
 Buckthorn: *Rhamnus caroliniana*
 Buckwheat, Climbing: *Polygonum convolvulus*
 Buffalo-nut: *Pyrularia pubera*
 Bufflehead: *Bucephala albeola*
 Bug, Ambush: *Phymata fasciata*, *Phymata pennsylvanica*
 Bug, Assassin: *Pygolampis pectoralis*
 Bug, Broad-headed: *Alydus eurinus*
 Bug, Brown Stink: *Euschistus sp.*
 Bug, Eastern Boxelder: *Leptocoris trivittatus*
 Bug, Flat Stink: *Brochymena sp.*
 Bug, Flat: *Mezira sp.*
 Bug, Giant Water: *Belostoma lutarium*
 Bug, Green Stink: *Acrosternum hilare*, *Nezara viridula*
 Bug, Leaf-footed Yucca: *Leptoglossus sp.*
 Bug, Leaf-footed: *Acanthocephala femorata*, *Acanthocephala sp.*
 Bug, Negro: *Corimelaena sp.*
 Bug, Plant-feeding Stink: *Euschistus servus servus*
 Bug, Red: *Largus succineus*
 Bug, Riffle: *Rhagovalia obesa*
 Bug, Seed: *Hypogeocoris sp.*, *Neacoryphus bicrucis*
 Bug, Stilt: *Jalysus spinosus*
 Bug, Stink: *Mormidea sp.*
 Bug, Thread-legged: *Zelus exsangui*
 Bug, Toad: *Gelastocoris oculatus*, *Gelastocoris sp.*
 Bug, Water: *Belostoma flumineum*
 Bug, Wheel: *Arilus cristatus*
 Bugbane, Mountain: *Cimicifuga americana*
 Bugle-weed: *Lycopus virginicus*
 Bulbostylis (sedge): *Bulbostylis warei*
 Bullfrog: *Rana catesbiana*
 Bulrush: *Scirpus koilolepis*, *Scirpus purshianus*, *Scirpus robustus*
 Bumblebee: *Bombus impatiens*, *Bombus sp.*
 Bumelia, Buckthorn: *Bumelia lycioides*, *Bumelia tenax*
 Bunting, Indigo: *Passerina cyanea*
 Bunting, Painted: *Passerina ciris*
 Buprestid, Branch-and-leaf: *Agrilus politus*, *Agrilus sp.*

- Burmanna: *Burmanna biflora*, *Burmanna capitata*
 Bur-reed: *Sparganium americanum*
 Bush-clover, Creeping: *Lespedeza repens*
 Bush-clover: *Lespedeza hirta*, *Lespedeza intermedia*,
Lespedeza sp.
 Buttercup, Bulbous: *Ranunculus bulbosus*
 Buttercup, Hooked: *Ranunculus recurvatus*
 Buttercup: *Ranunculus hispidus*, *Ranunculus sardous*,
Ranunculus sp.
 Butterfly, Crescent: *Phyciodes sp.*
 Butterfly-pea, Climbing: *Centrosema virginianum*
 Butterfly-pea: *Clitoria mariana*
 Butterfly-weed: *Asclepias tuberosa*, *Asclepias tuberosa*
tuberosa
 Butternut: *Juglans cinerea*
 Butterweed: *Senecio glabellus*, *Senecio obovatus*
 Butterwort: *Pinguicula caerulea*, *Pinguicula pumila*
 Button-bush: *Cephalanthus occidentalis*
 Button-rosy: *Polygala curtisii*
 Buttonweed, Virginia: *Diodia virginiana*
 Caddisfly, Autumn Mottled Sedge: *Neophylax mitchelli*
 Caddisfly, Medium Evening Sedge: *Dolophylodes sp.*
 Caddisfly, Saddle-case Maker: *Glossosoma sp.*
 Caddisfly, Spotted Sedge: *Hydropsyche sp.*
 Caddisfly: *Rhyacophila fuscata*
 Calostoma (mushroom): *Calostoma sp.*
 Camellia, Mountain: *Stewartia ovata*
 Camellia, Silky: *Stewartia malacodendron*
 Camphorweed: *Heterotheca subaxillaris*, *Pluchea*
purpurascens, *Pluchea sp.*
 Champion, Starry: *Silene stellata*
 Cane: *Arundinaria gigantea*
 Canker, Hypoxylon: *Hypoxylon sp.*
 Canvasback: *Aythya valisineria*
 Carbon-antlers: *Xylaria hypoxylon*
 Carbon-balls (fungus): *Daldinia concentrica*, *Daldinia sp.*
 Carbon-cushion: *Ustulina deusta*
 Cardinal, Northern: *Cardinalis cardinalis*
 Cardinal-flower: *Lobelia cardinalis*
 Cardita, Broad-ribbed: *Cardita arata*
 Carolina-allspice: *Calycanthus floridus*
 Carolina-laurel: *Rhododendron minus*
 Carpenterweed: *Prunella vulgaris*
 Carphophorus: *Carphophorus bellidifolius*, *Carphophorus sp.*
 Carrion-flower: *Smilax ecirrhata*, *Smilax ecirrhata hugeri*,
Smilax herbacea
 Carrot, American: *Daucus pusillus*
 Carrot, Wild: *Daucus carota*
 Cassena: *Ilex cassine cassine*
 Cat, Domestic: *Felis catus*
 Catalpa: *Catalpa speciosa*, *Catalpa sp.*
 Catbird, Gray: *Dumetella carolinensis*
 Catbrier: *Smilax sp.*
 Caterpillar, Datana Moth: *Datana sp.*
 Caterpillar, Eastern Tent: *Malacosoma americanum*
 Caterpillar, Forest Tent: *Malacosoma disstria*
 Caterpillar, Saddleback: *Sibine stimulea*
 Caterpillar, Tent: *Malacosoma sp.*
 Caterpillar, Woolly Bear: *Pyrrharetia isabella*
 Cat's-paw: *Plicatula gibbosa*
 Cat-tail, Common: *Typha latifolia*
 Cat-tail, Narrow-leaved: *Typha angustifolia*
 Cedar, Deodar: *Cedrus deodara*
 Chafer, Rose: *Macrodactylus angustatus*
 Chafer: *Dichelonyx elongata*, *Dichelonyx fuscata*,
Dichelonyx subvittata, *Dichelonyx sp.*
 Chanterelle, Cinnabar-red: *Cantharellus cinnabarinus*
 Chanterelle, Flame-colored: *Cantharellus ignicolor*
 Chanterelle, Fragrant: *Craterellus odoratus*
 Chanterelle, Golden: *Cantharellus cibarius*
 Chanterelle, Scaly Vase: *Gomphus floccosus*
 Chanterelle: *Cantharellus sp.*, *Craterellus cornucopioides*
 Chat, Yellow-breasted: *Icteria virens*
 Checkered-skipper, Common: *Pyrgus communis*
 Cherry, Black: *Prunus serotina*
 Cherry, Choke: *Prunus virginiana*
 Cherry, Fire: *Prunus pensylvanica*
 Cherry, Wild: *Prunus serotina*
 Cherry-laurel, Carolina: *Prunus caroliniana*
 Chervil, Sweet: *Osmorhiza longistylis*
 Chervil, Wild: *Chaerophyllum tainturieri*
 Chestnut, American: *Castanea dentata*
 Chickadee, Carolina: *Parus carolinensis*
 Chickweed, Common: *Stellaria media*
 Chickweed, Giant: *Stellaria pubera*
 Chickweed, Mouse-ear: *Cerastium glomeratum*, *Cerastium*
nutans
 Chinaberry: *Melia azedarach*
 Chinese-lanterns: *Physalis virginiana virginiana*
 Chinquapin, Allegheny: *Castanea pumila*, *Castanea pumila*
pumila
 Chinquapin: *Castanea sp.*
 Chione, Broad-ribbed: *Chione latilirata*
 Chione, Cross-barred: *Chione cancellata*
 Chione: *Chione grus*
 Chipmunk, Eastern: *Tamias striatus*
 Chokeberry, Red: *Sorbus arbutifolia*, *Sorbus arbutifolia*
arbutifolia
 Cicada, Annual: *Tibicen sp.*
 Cicada, Dog-day: *Tibicen canicularis*
 Cicada, Periodical: *Magicicada sp.*
 Cicely, Sweet: *Osmorhiza claytonii*
 Cinnamon-vine: *Dioscorea batatas*
 Cinquefoil: *Potentilla sp.*
 Clam, Asiatic: *Corbicula fluminea*, *Corbicula manilensis*,
Corbicula sp.
 Clam, Astarte: *Astarte glenni*, *Astarte concentrica*
 Clam, Atlantic Razor: *Ensis directus*

Clam, Bittersweet: *Glycymeris americana* *Glycymeris aratus* *Glycymeris pectinata*

Clam, Cardita: *Cyclocardia granulata*

Clam, Dwarf Surf: *Mulinia lateralis*

Clam, Gibb's: *Eucrasatella speciosa*

Clam, Hard-shelled: *Mercenaria campechiensis*

Clam, Jack-knife: *Togelus plebeius*

Clam, Northern Quahog: *Mercenaria mercenaria*

Clam, Pregnant Gingerail: *Sphaerium partumeum*

Clam, Quahog: *Mercenaria sp.*

Clam, Rangia: *Rangia cuthbertsoni*

Clam: *Corbicula densata*, *Ensis directus*, *Mercenaria mercenaria*

Clearweed: *Pilea pumila*

Cleavers: *Galium aparine*

Clematis: *Clematis sp.*

Cliff-brake, Purple: *Pellaea atropurpurea*

Climbing-hydrangea: *Decumaria barbara*

Climbing-milkweed: *Matelea obliqua*

Clitocybe, Fat-footed: *Clitocybe clavipes*

Clitocybe, Wood: *Clitocybe ectypoides*

Cloak, Mourning: *Nymphalis antiopa*

Clonhorn: *Cyrtinus pygmaeus*

Cloudywing, Southern: *Thorybes bathyllus*

Clover, Carolina: *Trifolium carolinianum*

Clover, Low Hop: *Trifolium campestre*, *Trifolium dubium*

Clover, Rabbit Foot: *Trifolium arvense*

Clover, Red: *Trifolium pratense*

Clover, Sour: *Melilotus indica*

Clover, White: *Trifolium repens*

Clubmoss *Lycopodium sp.*

Clubmoss, Running: *Lycopodium clavatum*

Clubmoss, Shining: *Lycopodium lucidulum*

Clubmoss, Slender: *Lycopodium carolinianum*

Clubmoss, Southern Bog: *Lycopodium adpressum*

Clubtail Dragonfly *Gomphus sp.*

Clubtail, Lancet (dragonfly): *Gomphus exilis*

Clubtail, Single-striped: *Lanthus vernalis*

Clustered Coral *Ramaria botrytis*

Clymene Moth *Haploa clymene*

Coastal Chinquapin *Castanea pumila ashei*

Coastal Dropseed *Sporobolus virginicus*

Coastal Honeybells *Leucothoe racemosa*

Cockle, Common: *Trachycardium auriculatum*

Cockle, Giant Atlantic: *Dinocardium robustum*

Cocklebur: *Agrimonia gryposepala*, *Agrimonia pubescens microcarp*, *Agrimonia sp.*, *Xanthium strumarium*, *Xanthium strumarium glabratum*

Coconut: *Cocos nucifera*

Cohosh, Black: *Cimicifuga racemosa*

Cohosh, Blue: *Caulophyllum thalictroides*

Cole: *Clavaria flava*

Colic-root: *Aletris aurea*, *Aletris farinosa*

Collybia (mushroom): *Collybia sp.*

Collybia, Booted: *Collybia peronata*

Collybia, Family: *Clitocybula familia*

Collybia, Little Brown: *Collybia alkalivirens*

Collybia, Oak-loving: *Collybia dryophila*

Collybia, Violet: *Collybia iocophala*

Collybia, Zoned-cap: *Crinipellis zonata*

Columbine, Wild: *Aquilegia canadensis*

Comb-jelly, Beroe's: *Beroe ovata*

Comfrey, Wild: *Cynoglossum virginianum*

Comma, Eastern: *Polygonia comma*

Conch, Florida Horse: *Pleuroploca gigantea*

Coneflower: *Rudbeckia laciniata*

Conk, Artist's: *Ganoderma applanatum*

Coot, American: *Fulica americana*

Cooter: *Chrysemys sp.*

Copperhead: *Agkistrodon contortrix*

Coquina (shell): *Donax sp.*

Coquina, Florida: *Donax variabilis*

Coral, Colonial: *Septastrea crassa*

Coral, Cotton-base: *Lentaria byssidea*

Coral, Crested: *Clavulina cristata*

Coral, Crown-tipped: *Clavicornia pyxidata*

Coral, Flat-topped: *Clavariadelphus truncatus*

Coral, Jellyed False: *Tremelodendron pallidum*

Coral, Northern Cup: *Astrangia danae*

Coral, Spindle-Shaped Gold: *Clavulinopsis pulchra*

Coral, Spindle-shaped Yellow: *Clavulinopsis fusiformis*

Coral, Star: *Favia fragum*

Coral, Straight-branched: *Ramaria stricta*

Coral, Tan Bushy Soft: *Plexaura flexuosa*

Coral, Violet-branched: *Clavulina amethystina*

Coral, White Worm: *Clavaria vermicularis*

Coral, White: *Ramariopsis kunzei*

Coral, Yellow-tipped: *Ramaria formosa*

Coralbeads: *Cocculus carolinus*

Coral-bean: *Erythrina herbacea*

Coral-berry: *Symphoricarpos orbiculatus*

Coral-root, Autumn: *Corallorhiza odontorhiza*

Coral-root, Spring: *Corallorhiza wisteriana*

Cordyceps, Headlike: *Cordyceps capitata*

Coreopsis, Dwarf-eared: *Coreopsis auriculata*

Coreopsis: *Coreopsis gladiata*, *Coreopsis major*, *Coreopsis sp.*

Cormorant, Double-crested: *Phalacrocorax auritus*

Cornel, Stiff: *Cornus stricta*

Corn-salad: *Valerianella radiata*

Cort, Silvery-violet: *Cortinarius alboviolaceus*

Cort, Violet: *Cortinarius violaceus*

Cort: *Cortinarius sp.*

Corydalis, Yellow: *Corydalis flavula*

Corydalis: *Corydalis micranthaaustralis*

Cottonmouth: *Agkistrodon piscivorus*

Cottontail, Eastern: *Sylvilagus floridanus*

Cottonweed: *Froelichia floridana*, *Froelichia gracilis*

- Cottonwood: *Populus sp.*
 Cottonwood, Eastern: *Populus deltoides*
 Cottonwood, Swamp: *Populus heterophylla*
 Cow-bane: *Oxypholis rigidior*
 Cowbird, Brown-headed: *Molothrus ater*
 Cow-wheat: *Melampyrum lineare*
 Crab, Atlantic Horseshoe: *Limulus polyphemus*
 Crab, Blue: *Callinectes similis*, *Callinectes sp.*
 Crab, Common Blue: *Callinectes sapidus*
 Crab, Common Mole: *Emerita talpoida*
 Crab, Fiddler: *Uca sp.*
 Crab, Flat-clawed Hermit: *Pagurus pollicaris*
 Crab, Ghost: *Ocypode quadrata*
 Crab, Green-striped Hermit: *Clibanarius vittatus*
 Crab, Gulf Calico: *Hepatus epheliticus*
 Crab, Hermit: *Pagurus sp.*, *Anemone Calliactis tricolor*
 Crab, Lady: *Ovalipes ocellatus*
 Crab, Mottled Purse: *Persephonea mediterranea*
 Crab, Mud Fiddler: *Uca pugnax*
 Crab, Mud: *Panopeus sp.*
 Crab, Purple Marsh: *Sesarma reticulatum*
 Crab, Sand Fiddler: *Uca pugilator*
 Crab, Speckled: *Arenaeus cribrarius*
 Crab, Spider: *Libinia sp.*
 Crab, Stone: *Menippe mercenaria*
 Crabapple, Southern: *Malus angustifolia*
 Crane, Phantom: *Bittacomorpha clavipes*
 Cranesbill: *Geranium carolinianum*
 Crayfish, Chimney: *Cambarus diogenes*
 Crayfish: *Cambarus sp.*
 Creeper, Brown: *Certhia americana*
 Creeping-Charlie: *Lysimachia nummularia*
 Crep, Flat: *Crepidotus applanatus*
 Crescent, Pearl: *Phyciodes tharos*
 Crescent, Phaon: *Phyciodes phaon*
 Cress, Bitter: *Cardamine clematidis*, *Cardamine pensylvanica*
 Cress, Early Winter: *Barbarea verna*
 Cress, Hairy Bitter: *Cardamine hirsuta*
 Cress, Mouse-ear: *Arabidopsis thaliana*
 Cress, Yellow: *Rorippa islandica*
 Cricket, Cave: *Ceuthophilus sp.*
 Cricket, Field: *Gryllus assimilis*, *Gryllus sp.*
 Cricket, Leaf-rolling: *Camptonotus carolinianus*
 Cricket, Mole: *Scapteriscus sp.*
 Cricket, Short-tailed: *Anurogryllus muticus*
 Cricket, Snowy Tree: *Oecanthus fultoni*
 Cricket, Southern Mole: *Scapteriscus aetatus*
 Cricket, Thick-legged Camel: *Ceuthophilus crassifemoris*
 Croton, Silverleaf: *Croton punctatus*
 Croton: *Croton glandulosus septentrionalis*
 Crotonopsis: *Crotonopsis linearis*
 Crow, American: *Corvus brachyrhynchos*
 Crow, Fish: *Corvus ossifragus*
 Crow: *Corvus sp.*
 Crowfoot, Small-flowered: *Ranunculus abortivus*
 Cruiser, River (dragonfly): *Macromia sp.*
 Cruiser, Royal River: *Macromia taeniolata*
 Cryptomeria, Japanese: *Cryptomeria japonica*
 Cuckoo, Yellow-billed: *Coccyzus americanus*
 Cucumber, Bur: *Sicyos angulatus*
 Cucumber, Creeping: *Melothria pendula*
 Cucumber-root, Indian: *Medeola virginiana*
 Cucumber-tree: *Magnolia acuminata*
 Cudweed: *Gnaphalium purpureum*
 Cup Eyelash: *Scutellinia scutellata*
 Cup, Brown-Haired White: *Humaria hemisphaerica*
 Cup, Common Brown: *Peziza badio-confusa*
 Cup, Hairy Rubber: *Gallitella rufa*
 Cup, Ribbed-stalked: *Helvella acetabulum*
 Cylindrical Leaf Beetle: *Bassareus sp.*, *Cryptocephalus quadruplex*, *Pachybrachis sp.*
 Cystoderma, Pungent: *Cystoderma amianthinum rugosoreticulatum*
 Dace, Rosyside: *Clinostomus funduloides*
 Daddy-long-legs: *Leiobunum sp.*
 Daffodil: *Narcissus pseudo-narcissus*
 Dahoon: *Ilex cassine cassine*
 Daisy, Ox-eye: *Chrysanthemum leucanthemum*
 Damsel, Black-tipped: *Calopteryx aequabilis*
 Damsel, Blue-fronted Dancer: *Argia apicalis*
 Damsel, Carolina Spreadwing: *Lestes vidua*
 Damsel, Sparkling Jewelwing: *Calopteryx dimidiata*
 Damsel, Spreadwing: *Lestes sp.*
 Dancer (damsel): *Argia sp.*
 Dancer, Blue-ringed (damsel): *Argia sedula*
 Dancer, Powdered (damsel): *Argia moesta*
 Dancer, Seepage (damsel): *Argia bipunctulata*
 Dancer, Variable (damsel): *Argia fumipennis*
 Dandelion, Common: *Taraxacum officinale*
 Dandelion, Dwarf: *Krigia dandelion*, *Krigia virginica*
 Dangleberry: *Gaylussacia frondosa*
 Darkling Beetle: *Aloates pennsylvanica*, *Centronopus calcaratus*, *Diaperis maculata*, *Hoplocephala viridipennis*, *Platydema erythrocerus*, *Platydema excavatum*, *Platydema sp.*, *Strongylium sp.*, *Tarpela micans*, *Uloma imberbis*, *Uloma punctulata*
 Darner, Comet: *Anax longipes*
 Darner, Common Green: *Anax junius*
 Darner, Springtime: *Basiaeschna janata*
 Darner, Swamp: *Epiacantha heros*
 Dasher, Blue: *Pachydiplax longipennis*
 Dayflower: *Commelina communis*, *Commelina erecta*, *Commelina virginica*, *Commelina sp.*
 Daylily: *Heemerocallis fulva*
 Deadman's-fingers (sponge): *Briareum asbestinum*
 Dead-man's-fingers: *Xylaria polymorpha*
 Deer, White-tailed (remains): *Odocoileus virginianus*
 Deer, White-tailed: *Odocoileus virginianus*

- Deerberry: *Vaccinium stamineum*
 Deer's-tongue: *Trilisa paniculata*, *Trilisa* sp.
 Destroying-angel: *Amanita virosa*
 Devil-joint: *Opuntia drummondii*
 Devil's-shoestring: *Sida rhombifolia*
 Devil's-urn: *Urnula craterium*
 Devil's-walking-stick: *Aralia spinosa*
 Dewberry: *Rubus trivialis*
 Diervilla: *Diervilla lonicera*
 Disc, Hophornbeam (fungus): *Aleurodiscus oakesii*
 Disk (shell): *Dosinia discus*
 Ditch-grass: *Ruppia maritima*
 Dobsonfly: *Corydalis cornutus*
 Dock, Curl: *Rumex crispus*
 Dock, Swamp: *Rumex verticillatus*
 Dodder, Compact: *Cuscuta compacta*
 Dodder: *Cuscuta groenovi*, *Cuscuta* sp.
 Dogbane, Climbing: *Trachelospermum difforme*
 Dog-fennel: *Eupatorium capillifolium*, *Eupatorium compositifolium*
 Dog-hobble: *Leucothoe axillaris*, *Leucothoe axillaris axillaris*, *Leucothoe axillaris editorum*, *Leucothoe* sp.
 Dog's-tooth-violet: *Erythronium americanum*
 Dogwood, Alternate-leaved: *Cornus alternifolia*
 Dogwood, Flowering: *Cornus florida*
 Dogwood, Silky: *Cornus amomum*
 Dogwood, Swamp: *Cornus stricta*
 Dogwood: *Cornus asperifolia*
 Dollarleaf: *Desmodium rotundifolium*
 Dollar-weed: *Rhynchosia reniformis*
 Dolphin, Bottle-nosed: *Tursiops truncatus*
 Doodlebug: *Myrmeleon immaculatus*, *Myrmeleon* sp.
 Dove, Mourning: *Zenaidura macroura*
 Dove, Rock: *Columba livia*
 Draba: *Draba aprica*
 Dragonfly, Baskettail: *Epiptera* sp.
 Dragonfly, Little Corporal: *Ladona deplanata*
 Dragonfly, Spiketail: *Cordulegaster* sp.
 Dragonfly, White-tail: *Platemeris lydia*
 Dragonlet, Blue: *Erythrodiplosis minuscula*
 Dragonslayer: *Hagenius brevistylus*
 Dropseed: *Sporobolus* sp.
 Drum, Black (tooth): *Pogonias cromis*
 Drum-heads: *Polygala cruciata*
 Duck, American Black: *Anas rubripes*
 Duck, Mottled: *Anas fulvigula*
 Duck, Ring-necked: *Aythya collaris*
 Duck, Ruddy: *Oxyura jamaicensis*
 Duck, Wood: *Alis sponsa*
 Duckmeat: *Spirodela oligorrhiza*
 Duck-potato: *Sagittaria engelmanniana*
 Duck-potato: *Sagittaria latifolia pubescens*
 Duckweed, Giant: *Spirodela punctata*, *Spirodela* sp.
 Duckweed: *Lemna gibba*, *Lemna perpusilla*, *Lemna valdiviana*, *Lemna* sp.
 Dulichium (sedge): *Dulichium arundinaceum*
 Dunlin: *Calidris alpina*
 Duskywing, Horace's: *Erynnis horatius*
 Duskywing, Juvenal's: *Erynnis juvenalis*
 Dutchman's-breeches: *Dicentra cucullaria*
 Dutchman's-pipe: *Aristolochia macrophylla*
 Dyschoriste: *Dyschoriste oblongifolia*
 Eagle, Bald: *Haliaeetus leucocephalus*
 Eagle, Golden: *Aquila chrysaetos*
 Earthstar, Barometer: *Astraeus hygrometricus*
 Earthstar, Beaked: *Gastrum pectinatum*
 Earthstar, Rounded: *Gastrum saccatum*
 Earthstar: *Gastrum* sp., *Scleroderma* sp.
 Earth-tongue, Orange: *Microglossum rufum*
 Earth-tongue, Velvety: *Trichoglossum hirsutum*
 Eclipta: *Eclipta alba*
 Ecphora: *Ecphora quadricostata*
 Edge, Hoary (skipper): *Achalarus lyciades*
 Eel-grass: *Zostera marina*
 Egret, Cattle: *Bulbicus ibis*
 Egret, Great: *Casmerodius albus*
 Egret, Reddish: *Egretta rufescens*
 Egret, Snowy: *Egretta thula*
 Elaeagnus, Thorny: *Elaeagnus pungens*
 Elater, Blind: *Alaus myops*
 Elater, Eyed: *Alaus oculatus*
 Elderberry, American: *Sambucus canadensis*
 Elderberry: *Sambucus* sp.
 Elephant's-foot: *Elephantopus carolinianus*, *Elephantopus elatus*, *Elephantopus nudatus*, *Elephantopus tomentosus*, *Elephantopus* sp.
 Elfin, Henry's (butterfly): *Callophrys henrici*
 Elm, American: *Ulmus americana*
 Elm, Slippery: *Ulmus rubra*
 Elm, Winged: *Ulmus alata*
 Elm: *Ulmus* sp.
 Elodea, Brazilian: *Egeria densa*
 Elytraria: *Elytraria carolinensis*
 Emerald, Mocha (dragonfly): *Somatochlora linearis*
 Emperor, Hackberry (butterfly): *Asterocampa celis*
 Emperor, Tawny (butterfly): *Asterocampa clyton*
 Entoloma, Salmon Unicorn: *Entoloma salmoneum*
 Entoloma, Yellow Unicorn: *Entoloma murrayi*
 Eryngium: *Eryngium prostratum*
 Eupatorium: *Eupatorium pilosum*, *Eupatorium recurvans*, *Eupatorium* sp.
 Evening-primrose, Common: *Oenothera biennis*
 Evening-primrose, Cutleaf: *Oenothera laciniata*
 Evening-primrose: *Oenothera* sp.
 Facelis: *Facelis retusa*
 Falcon, Peregrine: *Falco peregrinus*
 False-willow: *Baccharis angustifolia*
 Fanwort: *Cabomba caroliniana*
 Featherbells: *Stenanthium gramineum*

- Fennel: *Foeniculum vulgare*
 Fern, American Climbing: *Lygodium palmatum*
 Fern, Bristle: *Trichomanes boschianum*
 Fern, Christmas: *Polystichum acrostichoides*
 Fern, Cinnamon: *Osmunda cinnamomea*
 Fern, Common Grape: *Botrychium dissectum*
 Fern, Fancy: *Dryopteris intermedia*
 Fern, Grape: *Botrychium sp.*
 Fern, Hairy Lip: *Cheilanthes lanosa*
 Fern, Hay-scented: *Dennstaedtia punctilobula*
 Fern, Japanese Climbing: *Lygodium japonicum*
 Fern, Lady: *Athyrium filix-femina*
 Fern, Lip: *Cheilanthes sp.*
 Fern, Log: *Dryopteris celsa*
 Fern, Maidenhair: *Adiantum pedatum*
 Fern, Marginal Shield: *Dryopteris marginalis*
 Fern, Marsh: *Thelypteris palustris*
 Fern, Mosquito: *Azolla caroliniana*
 Fern, Mountain Wood: *Dryopteris campyloptera*
 Fern, Netted Chain: *Woodwardia areolata*
 Fern, New York: *Thelypteris noveboracensis*
 Fern, Rattlesnake Grape: *Botrychium virginianum*
 Fern, Resurrection: *Polypodium polypodioides*
 Fern, Rock Cap: *Polypodium virginianum*
 Fern, Royal: *Osmunda regalis spectabilis*
 Fern, Sensitive: *Onoclea sensibilis*
 Fern, Shield: *Dryopteris sp.*
 Fern, Southern Grape: *Botrychium biternatum*
 Fern, Southern Lady: *Athyrium asplenoides*
 Fern, Spreading Bladder: *Cystopteris protrusa*
 Fern, Virginia Chain: *Woodwardia virginica*
 Fern, Walking: *Asplenium rhizophyllum*
 Fern, Woolly Lip: *Cheilanthes tomentosa*
 Fern: *Thelypteris sp.*
 Fetterbush: *Leucothoe recurva*, *Lyonia lucida*
 Fiber-head, Black-nipple: *Inocybe fuscoidisca*
 Fiber-head, White: *Inocybe geophylla*
 Fiber-vase, Common: *Thelophora terrestris*
 Fiber-vase: *Thelophora sp.*
 Figwort: *Scrophularia marilandica*
 Fimbristylis (sedge): *Fimbristylis dichotoma*, *Fimbristylis spadicea*
 Finch, House: *Cardodacus mexicanus*
 Finch, Purple: *Cardodacus purpureus*
 Fir, Fraser: *Abies fraseri*
 Firefly: *Ellychnia sp.*, *Lucidota atra*, *Lucidota sp.*, *Photinus sp.*, *Photinus pyralis*, *Photuris sp.*
 Firetail, Duckweed (damselfly): *Telebasis byersi*
 Fireweed: *Erechtites hieracifolia*
 Fish, Atlantic Silverside: *Menidia menidia*
 Fish, Gar: *Lepisosteus sp.*
 Fish, Puffer: *Chilomycterus sp.*
 Fishfly, Dark: *Nigronia sericornis*
 Five-fingers: *Potentilla canadensis*, *Potentilla recta*, *Potentilla simplex*
 Flag, Southern Blue: *Iris virginica*
 Flag: *Iris tridentata*, *Eumeces sp.*
 Fleabane, Daisy: *Erigeron annuus*, *Erigeron philadelphicus*
 Fleabane, Rough Daisy: *Erigeron strigosus*
 Fleabane, Swamp: *Erigeron vernus*
 Flicker, Northern: *Colaptes auratus*
 Floating-heart, Small: *Nymphoides cordata*
 Floating-heart: *Nymphoides aquatica*
 Fly, Bee: *Anthrax aralis*, *Bombus sp.*
 Fly, Flower: *Milesia virginensis*
 Fly, Fruit: *Drosophila melanogaster*
 Fly, House: *Musca domestica*
 Fly, Pomace: *Drosophila melanogaster*
 Fly, Robber: *Asilidae sp.*
 Fly, Shiny Bluebottle: *Cynomyopsis cadaverina*
 Flycatcher, Acadian: *Empidonax virens*
 Flycatcher, Great Crested: *Myiarchus cinerascens*
 Flycatcher, Willow: *Empidonax traillii*
 Fly-poison: *Amianthium muscaetoxicum*
 Foamflower: *Tiarella cordifolia*, *Tiarella cordifolia collina*
 Fog-fruit: *Lippia nodiflora*
 Forestiera: *Forestiera ligustrina*
 Forget-me-not: *Myosotis macrosperma*, *Myosotis verna*
 Forktail, Citrine (damselfly): *Ischnura hastata*
 Forktail, Fragile (damselfly): *Ischnura posita*
 Forktail, Lilypad (damselfly): *Ischnura kellicotti*
 Forktail, Rambur's (damselfly): *Ischnura ramburi*
 Fox, Gray: *Urocyon cinereoargenteus*
 Fox, Red: *Vulpes vulpes*
 Foxglove, Downy False: *Aureolaria virginica*
 Foxglove, False: *Agalinis tenuifolia*, *Aureolaria flava*, *Aureolaria pectinata*, *Aureolaria pedicularia*, *Aureolaria sp.*
 Franklin-tree: *Franklinia alatamaha*
 Fringe-tree: *Chionanthus virginicus*
 Fritillary, Great Spangled: *Speyeria cybele*
 Fritillary, Gulf: *Agraulis vanillae*
 Fritillary, Variegated: *Euptoieta claudia*
 Frog, Brimley's Chorus: *Pseudacris brimleyi*
 Frog, Carpenter: *Rana virgatipes*
 Frog, Chorus: *Pseudacris sp.*
 Frog, Cricket: *Acris sp.*
 Frog, Green: *Rana clamitans*
 Frog, Little Grass: *Limnaea ocularis*
 Frog, Northern Cricket: *Acris crepitans*
 Frog, Pickerel: *Rana palustris*
 Frog, Pig: *Rana grylio*
 Frog, Southern Cricket: *Acris gryllus*
 Frog, Southern Leopard: *Rana sphenoccephala*
 Frog, Upland Chorus (call): *Pseudacris triseriata*
 Frog, Upland Chorus: *Pseudacris triseriata*
 Froghopper: *Prosapia bicincta*
 Frog's-bit: *Limnobotum spongia*
 Frog's-britches: *Sarracenia purpurea*

- Frostweed: *Helianthemum rosmarinifolium*
 Fungus, Alder Cone: *Taphrina alni-incanae*
 Fungus, Dry-rot: *Serpula* sp.
 Fungus, Gill: *Clitocybe* sp.
 Fungus, Tooth: *Hericium* sp.
 Fuzzy-foot: *Xeromphalina campanella*
 Galactia: *Galactia* sp.
 Galax: *Galax aphylla*
 Galaxy: *Galax aphylla*
 Galerina, Deadly: *Galerina autumnalis*
 Gall (wasp): *Andricus petiolicola*
 Gall, Black Oak Lamina Platform: *Neuroterus* sp.
 Gall, Blackberry Branch (wasp): *Diplolepis rubicola*
 Gall, Blackberry Knot (wasp): *Diasitrophus nebulosus*
 Gall, Blueberry Stem (wasp): *Hemadas nubilipennis*
 Gall, Bullet (wasp): *Cynips* sp.
 Gall, Chestnut Bud (midge): *Rhopalomyia castaneae*
 Gall, Chestnut Oak Midrib Tumor: *Plagiotrochus tumeficus*
 Gall, Chestnut Oak Vein (wasp): *Plagiotrochus reticulatus*
 Gall, Chestnut Petiole (wasp): *Neuroterus minutus*
 Gall, Conical Hickory (midge): *Caryomyia sanguinolenta*
 Gall, Conical Hickory Leaf: *Phylloxera caryae-foliae*
 Gall, Conical Oak (wasp): *Callirhytis conferta*
 Gall, Conical Woolly Oak (wasp): *Andricus perplexus*
 Gall, Cottonwood Petiole (aphid): *Pemphigus populicaulis*
 Gall, Cypress Flower (midge): *Itonida anthici*
 Gall, Cypress Leaf (midge): *Itonida taxodii*
 Gall, Cypress Twig (midge): *Thecodiplosis ananassi*
 Gall, Dogwood Club (midge): *Lasiptera clazula*,
Mycodiplosis clavula
 Gall, False Nettle Stem (midge): *Cecidomyia boehmeriae*
 Gall, Goldenrod Ball (fly): *Eurasta solidaginis*
 Gall, Goldenrod Bunch (midge): *Rhopalomyia solidaginis*
 Gall, Gouty Oak (wasp): *Plagiotrochus punctatus*
 Gall, Hackberry Blister (aphid): *Pachypsylla vesiculum*
 Gall, Hickory Leaf (aphid): *Phylloxera caryocaulis*
 Gall, Hickory Leaf (midge): *Caryomyia consobrina*,
Caryomyia antennata
 Gall, Hickory Midrib (midge): *Caryomyia* sp.
 Gall, Hickory Onion (midge): *Caryomyia holotricha*
 Gall, Hickory Seed (aphid): *Phylloxera caryoesemen*
 Gall, Hickory Tube (midge): *Caryomyia tubicola*
 Gall, Hickory Vein (aphid): *Phylloxera caryae-venae*
 Gall, Hornbeam Leaf-fold (midge): *Cecidomyia pudibunda*
 Gall, Horned Oak (wasp): *Andricus clavigerus*
 Gall, Huckleberry Oak (wasp): *Callirhytis lustrans*
 Gall, Large Conical Hickory: *Phylloxera notabilis*
 Gall, Leafy Oak (wasp): *Andricus foliatus*
 Gall, Linden Wart (midge): *Cecidomyia verrucicola*
 Gall, Live-oak Potato (wasp): *Plagiotrochus batatoides*
 Gall, Maple Leaf Spot (midge): *Cecidomyia ocellaris*
 Gall, Marbled Oak (wasp): *Andricus pistiformis*
 Gall, Marginal Oak Leaf (wasp): *Dryophanta* sp.
 Gall, Oak Blister (midge): *Cincticornia pustulata*
 Gall, Oak Bullet (wasp): *Disholcaspis globulus*,
Disholcaspis sp.
 Gall, Oak Flake (wasp): *Neuroterus floccus*
 Gall, Oak Leaf (wasp): *Belenocnema fossoria*
 Gall, Oak Stem (wasp): *Disholcaspis spongiosa*
 Gall, Persimmon Warty Leaf: *Trioxa diospyri*
 Gall, Pine Needle (midge): *Janetiella coloradensis*
 Gall, Post-oak Apple (wasp): *Andricus unica*
 Gall, Pubescent Bract Hickory: *Phylloxera globosa*
 Gall, Red Pouch Sumac (aphid): *Melaphis rhois*
 Gall, Reniform Midrib Carya: *Phylloxera caryaeren*
 Gall, Slippery Elm Pouch (aphid): *Gobaishia ulmifusus*
 Gall, Small Bullet Oak (wasp): *Andricus maxwelli*
 Gall, Spiny Rose (wasp): *Diplolepis bicolor*
 Gall, Spiny Witch Hazel (aphid): *Hamamelistes spinosus*
 Gall, Stem wasp: *Plagiotrochus* sp.
 Gall, Verbesina Axillary Flower: *Rhopalomyia* sp.
 Gall, Water Oak Midvein (wasp): *Callirhytis* sp.
 Gall, White Oak Club (wasp): *Callirhytis clavula*
 Gall, Witch Hazel Cone (aphid): *Hormaphis hamamelidis*
 Gall, Wool-bearing (wasp): *Andricus lanigera*
 Gall, Wool-sower (wasp): *Callirhytis seminator*
 Gallberry, Sweet: *Ilex coriacea*
 Gall-of-the-earth: *Prenanthes trifoliolata*, *Prenanthes
 serpentina*
 Gar, Longnose (fish): *Lepisosteus osseus*
 Garlic, False: *Allium bivalve*
 Garlic, Field: *Allium vineale*
 Gastropod: *Fusinus abruptus*
 Gaura: *Gaura angustifolia*
 Gentian, Pine-baren: *Gentiana autumnalis*
 Gentian: *Gentiana catesbaei*, *Gentiana villosa*, *Gentiana* sp.
 Geranium, Wild: *Geranium maculatum*
 Gerardia, Purple: *Agalinis purpurea*
 Gerardia: *Agalinis linifolia*, *Agalinis setacea*, *Agalinis
 tenella*, *Agalinis virgata*, *Agalinis* sp.
 Germander: *Teucrium canadense*
 Giant-skipper, Yucca: *Megathymus yuccae*
 Gill, Common Split: *Schizophyllum commune*
 Ginger, Wild: *Asarum canadense*, *Hexastylis heterophylla*,
Hexastylis minor, *Hexastylis shuttleworthii*
 Ginseng: *Panax quinquefolium*
 Glasswort, Perennial: *Salicornia virginica*
 Glasswort: *Salicornia bigelovii*, *Salicornia europaea*,
Salicornia sp.
 Glecoma: *Glecoma hederacea*
 Glider, Black-mantled: *Tramea lacerata*
 Glider, Violet-masked: *Tramea carolina*
 Glider, Wandering: *Pantala flavescens*
 Glider: *Tramea* sp.
 Gnateater, Blue-gray: *Poliophtia caerules*
 Goatsbeard, False: *Astilbe bitemata*
 Goat's-beard: *Aruncus dioicus*
 Goat's-rue: *Tephrosia virginiana*

- Godwit, Marbled: *Limosa fedoa*
 Goldbug: *Metriana bicolor*
 Golden-Alexander: *Zizia aurea*, *Zizia sp.*
 Golden-club: *Orontium aquaticum*
 Goldeneye, Common: *Bucephala clangula*
 Goldenrod, Gray: *Solidago nemoralis*
 Goldenrod, Rayless: *Chondrophora nudata*
 Goldenrod, Rough-leaved: *Solidago rugosa*
 Goldenrod, Salt-marsh: *Solidago sempervirens*
 Goldenrod, Slim: *Solidago stricta*
 Goldenrod, Sweet: *Solidago odora*
 Goldenrod, Tall: *Solidago altissima*
 Goldenrod, Woody: *Solidago pauciflorosculosa*
 Goldenrod: *Solidago fistulosa*, *Solidago glomerata*, *Solidago microcephala*, *Solidago tenuifolia*, *Solidago sp.*
 Goldfinch, American: *Carduelis tristis*
 Goose, Blue: *Chen caerulescens*
 Goose, Canada: *Branta canadensis*
 Goose, Snow: *Chen caerulescens*
 Gooseberry, Spiny: *Ribes echinellum*
 Gopher-apple: *Chrysobalanus oblongifolius*
 Gopherweed: *Baptisia perfoliata*
 Goutweed: *Aegopodium podagraria*
 Grackle, Boat-tailed: *Quiscalus major*
 Grackle, Common: *Quiscalus quiscula*
 Grainy-club, Soldier: *Cordyrops militaris*
 Grape, Fox: *Vitis labrusca*
 Grape, Summer: *Vitis aestivalis*
 Grape: *Vitis sp.*
 Grass, Baggy-knees: *Sacciolepis striata*
 Grass, Barnyard: *Echinochloa crusgalli*
 Grass, Beard: *Gymnopogon ambiguus*, *Gymnopogon brevifolius*, *Erianthus contortus*, *Erianthus giganteus*, *Erianthus strictus*, *Erianthus sp.*
 Grass, Bermuda: *Cynodon dactylon*
 Grass, Cord: *Spartina cynosuroides*, *Spartina patens*
 Grass, Crowfoot: *Dactyloctenium aegyptium*
 Grass, Cut: *Leersia sp.*
 Grass, Dallis: *Paspalum dilatatum*
 Grass, Finger: *Chloris petraea*
 Grass, Foxtail: *Alopecurus carolinianus*, *Setaria sp.*
 Grass, Gamma: *Tripsacum dactyloides*
 Grass, Giant Foxtail: *Setaria magna*
 Grass, Goose: *Eleusine indica*
 Grass, Green Foxtail: *Setaria viridis*
 Grass, Hair: *Aira elegans*
 Grass, Indian: *Sorghastrum ellipticum*, *Sorghastrum sp.*
 Grass, Johnson: *Sorghum halepense*
 Grass, Love: *Eragrostis hirsuta*, *Eragrostis refracta*, *Eragrostis sp.*
 Grass, Melic: *Melica mutica*
 Grass, Needle: *Stipa avenacea*
 Grass, Oat: *Danthonia spicata*, *Danthonia sp.*
 Grass, Orchard: *Dactylis glomerata*
 Grass, Panic: *Panicum boreale*, *Panicum verrucosum*, *Panicum sp.*
 Grass, Quaking: *Briza minor*
 Grass, Rice Cut: *Leersia oryzoides*
 Grass, Salt: *Distichlis spicata*
 Grass, Sand: *Triplasis americana*, *Triplasis purpurea*
 Grass, Seaside Panic: *Panicum amarum*
 Grass, Smooth Cord: *Spartina alterniflora*
 Grass, Smut: *Sporobolus poiretii*
 Grass, Spike: *Uniola sessiliflora*
 Grass, Switch: *Panicum virgatum*
 Grass, Three Awn: *Aristida tuberculosa*
 Grass, Toothache: *Ctenium aromaticum*
 Grass, Uniola: *Uniola laxa*
 Grass, Vanilla: *Anthoxanthum odoratum*
 Grass, Wild Rye: *Elymus virginicus*
 Grass, Wire: *Aristida stricta*, *Aristida sp.*
 Grass, Yellow Foxtail: *Setaria glauca*
 Grass: *Calamovilfa brevifolia*, *Uniola sp.*
 Grasshopper, American Bird: *Schistocerca americana*
 Grasshopper, Autumn Yellow-winged: *Arphia xanthoptera*
 Grasshopper, Bird: *Schistocerca sp.*
 Grasshopper, Black-sided Pygmy: *Tettigidea lateralis*
 Grasshopper, Boll's Sand: *Spharagemon bolli*
 Grasshopper, Cattail Toothpick: *Leptysma marginicollis*
 Grasshopper, Differential: *Melanoplus differentialis*
 Grasshopper, Green-striped: *Chortophaga viridifasciata*
 Grasshopper, Leather-color Bird: *Schistocerca alutacea*
 Grasshopper, Lubber: *Brachystola magna*
 Grasshopper, Meadow: *Orchelimum sp.*
 Grasshopper, Mottled Sand: *Spharagemon collare*
 Grasshopper, Obscure Bird: *Schistocerca obscura*
 Grasshopper, Olive-green Swamp: *Paroxya clavuliger*
 Grasshopper, Orange-winged: *Pardalophora phoenicoptera*
 Grasshopper, Red-legged: *Melanoplus femurrubrum*
 Grasshopper, Rock-loving: *Trimerotropis saxatilis*
 Grasshopper, Sand: *Spharagemon cristatum*
 Grasshopper, Short-horned: *Metaleptea brevicornis*
 Grasshopper, Short-winged Green: *Dichromorpha viridis*
 Grasshopper, Slant-faced: *Syrphula admirabilis*
 Grasshopper, Spur-throated: *Melanoplus sp.*
 Grasshopper, Sulfur-winged: *Arphia sulphurea*, *Arphia sp.*
 Grasshopper: *Mermiria intertexta*, *Orphulella pelidna*
 Grass-of-Parnassus: *Parnassia asarifolia*
 Grass-pink, Pale: *Calopogon pallidus*
 Grass-pink: Bearded: *Calopogon barbatus*
 Grass-pink: *Calopogon pulchellus*
 Gratiola, Hairy: *Gratiola pilosa*
 Gray, Bent-line (moth): *Iridopsis larvata*
 Grebe, Horned: *Podiceps auritus*
 Grebe, Pied-billed: *Podilymbus podiceps*
 Green-and-gold: *Chrysogonum virginianum*, *Chrysogonum virginianum australe*
 Greenbrier, Dune: *Smilax auriculata*

- Greenbrier, Fringed: *Smilax bona-nox*
 Greenbrier, Red-berried: *Smilax walteri*
 Greenbrier: *Smilax ecirrhata biltmoreana*, *Smilax rotundifolia*, *Smilax* sp.
 Greenbrier: *Smilax glauca*
 Green-dragon: *Arisaema dracontium*
 Grisette, Tawny: *Amanita fulva*
 Grisette: *Amanita vaginata*
 Grosbeak, Blue: *Guiraca caerulea*
 Grosbeak, Rose-breasted: *Phaeicercus ludovicianus*
 Ground-cherry: *Physalis viscosa maritima*, *Physalis* sp.
 Ground-dove, Common: *Columba passerina*
 Groundhog: *Marmota monax*
 Ground-ivy: *Dichondra carolinensis*
 Groundnut: *Apios americana*
 Groundpine: *Lycopodium obscurum*
 Groundsel, Common: *Senecio vulgaris*
 Groundsel-tree: *Baccharis glomeruliflora*
 Groundsel-tree: *Baccharis halimifolia*
 Grouse, Ruffed: *Bonasa umbellus*
 Gulfweed: *Sargassum fluitans*
 Gull, Bonaparte's: *Larus philadelphia*
 Gull, Franklin's: *Larus pipiscan*
 Gull, Great Black-backed: *Larus marinus*
 Gull, Herring: *Larus argentatus*
 Gull, Laughing: *Larus atricilla*
 Gull, Ring-billed: *Larus delawarensis*
 Gyroporus, Red: *Gyroporus purpurinus*
 Hackberry: *Celtis occidentalis georgiana*, *Celtis* sp.
 Hairstreak, Banded: *Satyrus calanus*
 Hairstreak, Gray: *Strymon melinus*
 Hairstreak, Olive Juniper: *Callophrys gryneus gryneus*
 Hairstreak, Red-banded: *Calyptopis cecrops*
 Hairstreak, White M: *Parrhasius m-album*
 Harrier, Northern: *Circus cyaneus*
 Haw, May: *Crataegus aestivalis*
 Haw, Swamp: *Crataegus viridis*
 Hawk, Broad-winged: *Buteo platypterus*
 Hawk, Red-shouldered: *Buteo lineatus*
 Hawk, Red-tailed: *Buteo jamaicensis*
 Hawk, Sharp-shinned: *Accipiter striatus*
 Hawk's-beard: *Crepis japonica*
 Hawkweed: *Hieracium paniculatum*, *Hieracium gronovii*, *Hieracium* sp.
 Hawthorn, Cockspur: *Crataegus crus-galli*
 Hawthorn, Dwarf: *Crataegus uniflora*
 Hawthorn, Littlehip: *Crataegus spathulata*
 Hawthorn, Parsley-leaved: *Crataegus marshallii*
 Hawthorn: *Crataegus flabellata*, *Crataegus punctata*, *Crataegus* sp.
 Hazel-nut: *Corylus americana*
 Heartleaf: *Hexastylis arifolia*, *Hexastylis contracta*, *Hexastylis* sp.
 Hearts-a-burstin'-with-love: *Euonymus americanus*, *Euonymus atropurpureus*
 Hedge-hyssop: *Gratiola virginiana*, *Gratiola* sp.
 Heliotrope: *Heliotropium amplexicaule*
 Hellebore, False: *Veratrum parviflorum*, *Veratrum* sp.
 Hellebore, White: *Veratrum viride*
 Hemlock, Carolina: *Tsuga caroliniana*
 Hemlock, Eastern: *Tsuga canadensis*
 Hemlock, Water: *Cicuta maculata*
 Hemlock: *Tsuga* sp.
 Hempweed, Climbing: *Mikania scandens*
 Henbit, Common: *Lamium amplexicaule*
 Henbit, Red: *Lamium purpureum*
 Hercules'-club: *Zanthoxylum clava-herculis*
 Heron, Great Blue: *Ardea herodias*
 Heron, Green-backed: *Butorides striatus*
 Heron, Little Blue: *Egretta caerulea*
 Heron, Tricolored: *Egretta tricolor*
 Heterotheca: *Heterotheca gossypina*, *Heterotheca graminifolia*, *Heterotheca mariana*, *Heterotheca nervosa*, *Heterotheca nervosa nervosa*
 Hibiscus: *Hibiscus* sp.
 Hickory, Bitternut: *Carya cordiformis*
 Hickory, Mockernut: *Carya tomentosa*
 Hickory, Pale: *Carya pallida*
 Hickory, Pignut: *Carya glabra*
 Hickory, Shagbark: *Carya ovata*
 Hickory, Southern Shagbark: *Carya caroliniae septentrionalis*
 Hickory, Water: *Carya aquatica*
 Hickory: *Carya* sp.
 Himalaya-berry: *Rubus bifrons*
 Hoarhound, False: *Eupatorium rotundifolium*
 Hog-peanut: *Amphicarpa bracteata*
 Holly, American: *Ilex opaca*
 Holly, Mountain: *Ilex ambigua montana*
 Holly, Myrtle-leaved: *Ilex cassine myrtifolia*
 Holly, Possumhaw: *Ilex decidua*, *Ilex decidua longipes*
 Holly: *Ilex ambigua*, *Ilex* sp.
 Honewort: *Cryptotaenia canadensis*
 Honey-cup: *Zenobia pulverulenta*
 Honeysuckle, Bush: *Diervilla sessilifolia*
 Honeysuckle, Coral: *Lonicera sempervirens*
 Honeysuckle, Japanese: *Lonicera japonica*
 Honeysuckle, Swamp: *Rhododendron viscosum*
 Hop-hornbeam: *Ostrya virginiana*
 Hornbeam, American: *Carpinus caroliniana*
 Hornet, Bald-faced: *Vespa maculata*, *Vespa maculata*
 Hornwort: *Ceratophyllum demersum*
 Horse: *Equus leidy*
 Horse-balm: *Collinsonia canadensis*, *Collinsonia tuberosa*, *Collinsonia verticillata*
 Horsemint, Dotted: *Monarda punctata*
 Horse-nettle: *Solanum carolinense*
 Horse-sugar: *Symplocos tinctoria*
 Horsetail, Field: *Equisetum arvense*

- Horsetail: *Equisetum hyemale affine*
 Horseweed: *Erigeron canadensis canadensis*, *Erigeron canadensis ssp.*, *Erigeron sp.*
 Hover-fly, Bumblebee: *Volucella sp.*
 Huckleberry, Black: *Gaylussacia baccata*
 Huckleberry, Dwarf: *Gaylussacia dumosa*
 Huckleberry: *Gaylussacia ursina*, *Gaylussacia sp.*
 Hudsonia: *Hudsonia ericoides*
 Hummingbird, Ruby-throated: *Archilochus colubris*
 Hydrangea, Oak-leaf: *Hydrangea quercifolia*
 Hydrangea, Wild: *Hydrangea arborescens*, *Hydrangea arborescens arborescens*, *Hydrangea arborescens discolor*, *Hydrangea arborescens radiata*
 Hydrolea: *Hydrolea quadrivalvis*
 Hypericum, Shrubby: *Hypericum sp.*
 Hypericum: *Hypericum nudiflorum*, *Hypericum sp.*
 Hypomyces, Golden: *Hypomyces chrysospermus*
 Hypomyces, Yellow-Green: *Hypomyces luteovirens*
 Ibis, Glossy: *Plegadis falcinellus*
 Ibis, White: *Eudocimus albus*
 Ichneumon, Giant: *Megarhyssa sp.*
 Indian-hemp: *Apocynum cannabinum*, *Apocynum sp.*
 Indian-olive: *Nestronia umbellula*
 Indian-physic: *Gillenia trifoliata*
 Indian-pink: *Spigelia marilandica*
 Indian-pipe: *Monotropa uniflora*
 Indian-plantain, Pale: *Cacalia atriplicifolia*
 Indian-tobacco: *Lobelia inflata*
 Indigo, White Wild: *Baptisia alba*
 Indigo, Wild: *Baptisia bracteata*, *Baptisia cinerea*, *Baptisia tinctoria*, *Baptisia sp.*, *Indigofera caroliniana*
 Indigo-bush: *Amorpha fruticosa*
 Indigo-bush: *Amorpha sp.*
 Inkberry: *Ilex glabra*
 Inky, Alcohol: *Coprinus atramentarius*
 Intelligence-plant: *Centella asiatica*
 Ipecac, Carolina: *Euphorbia ipecacuanhae*
 Iresine, *Iresine rhizomatosa*
 Iris, Crested: *Iris cristata*
 Iris, Dwarf: *Iris verna*
 Iris: *Iris sp.*
 Ironweed: *Vernonia acaulis*, *Vernonia angustifolia*, *Vernonia angustifolia angustifolia*, *Vernonia glauca*, *Vernonia sp.*
 Ironwood: *Carpinus caroliniana*
 Ivy, English: *Hedera helix*
 Jack-in-the-pulpit: *Arisaema triphyllum*
 Jay, Blue: *Cyanocitta cristata*
 Jelly, Orange: *Dacrymyces deliquescens*, *Dacrymyces palmatus*
 Jelly-club, Green-headed: *Leotia viscosa*
 Jelly-club: *Leotia ascomyces*
 Jelly-drops, Purple: *Ascocoryne sarcodes*
 Jelly-roll, Pale: *Exidia alba*
 Jessamine, Yellow: *Gelsemium sempervirens*
 Jewel-weed: *Impatiens pallida*
 Jewelwing, Ebony: *Calopteryx maculata*
 Jimson-weed: *Datura stramonium*
 Joe-pye-weed, Green-stemmed: *Eupatorium purpureum*
 Joe-pye-weed: *Eupatorium fistulosum*, *Eupatorium sp.*
 Johnny-jump-up: *Viola rafinesquii*
 Jointweed: *Polygonella americana*, *Polygonella polygama*
 Jumpseed: *Tovara virginiana*
 Junco, Dark-eyed: *Junco hyemalis*
 Jussieu: *Phacelia maculata*
 Justicia: *Justicia americana*
 Katydid, Angular-winged: *Microcentrum retinerve*
 Katydid, Broad-winged: *Microcentrum rhombifolium*
 Katydid, Bucrates: *Bucrates malivolans*
 Katydid, Bush: *Scudderia sp.*
 Katydid, Common Meadow: *Orchelimum vulgare*
 Katydid, Cone-headed: *Neoconocephalus retesus*, *Neoconocephalus sp.*
 Katydid, Fork-tailed Bush: *Scudderia furcata*
 Katydid, Meadow: *Orchelimum volantum*
 Katydid, Montezuma: *Montezuma modesta*
 Katydid, Rapier Meadow: *Conocephalus strictus*
 Katydid, Round-headed: *Amblycorypha floridana*
 Katydid, Round-winged: *Amblycorypha oblongifolia*
 Katydid, Shield-backed: *Atlantiscus gibbosus*, *Atlantiscus sp.*
 Katydid, Shortleg Shield-backed: *Atlantiscus testaceus*
 Katydid, Slender Meadow: *Conocephalus fasciatus*
 Katydid, Texas Bush: *Scudderia texensis*
 Katydid, True: *Pterophylla camellifolia*
 Kestrel, American: *Falco sparverius*
 Killdeer: *Charadrius vociferus*
 Kingbird Eastern: *Tyrannus tyrannus*
 Kingfisher, Belted: *Ceryle alcyon*
 Kinglet, Golden-crowned: *Regulus satrapa*
 Kinglet, Ruby-crowned: *Regulus calendula*
 Kingsnake, Eastern: *Lampropeltis getulus*
 Kite, American Swallow-tailed: *Elanoides forficatus*
 Kite, Mississippi: *Ictinia mississippiensis*
 Kitten's-paw: *Plicatula gibbosa*
 Kitten's-paw: *Plicatula marginata*
 Knot, Red: *Calidris canutus*
 Knotweed: *Polygonum setaceum*
 Kudzu: *Pueraria lobata*
 Laccaria, Common: *Laccaria laccata*
 Laccaria, Purple-gilled: *Laccaria ochropurpurea*
 Lacewing, Eastern Green: *Chrysopa ornata*
 Lacewing, Green: *Chrysopa sp.*
 Ladies'-tresses, Grass-leaved: *Spiranthes praecox*
 Ladies'-tresses, Lesser: *Spiranthes ovalis*
 Ladies'-tresses, Nodding: *Spiranthes cernua*, *Spiranthes cernua cernua*
 Ladies'-tresses: *Spiranthes sp.*
 Lady, American (butterfly): *Vanessa virginianensis*
 Lady, Painted (butterfly): *Vanessa cardui*

- Lady's-slipper, Pink: *Cypripedium acaule*
 Lady's-slipper, Yellow: *Cypripedium calceolus*
 Lamb's-quarters: *Chenopodium album*
 Laurel, Purple: *Rhododendron catawbiense*
 Leadplant: *Amorpha herbacea*, *Amorpha* sp.
 Leaf-miner, Tick Trefoil: *Pachyschelus laevigatus*
 Leather-flower: *Clematis crispa*
 Leatherwood: *Dicra palustris*
 Lemnina: *Lemnina* sp.
 Leopard's-bane: *Arnica acaulis*
 Lepiota, Lemon-yellow: *Lepiota lutea*
 Lepiota, Red-tinged: *Lepiota rubrotincta*
 Lepuropetalon: *Lepuropetalon spatulatum*
 Lettuce, Sea: *Ulva lactuca*, *Ulva* sp.
 Lettuce, Wild: *Lactuca biennis*, *Lactuca canadensis*, *Lactuca floridana*, *Lactuca* sp.
 Leucothoe, Florida: *Leucothoe populifolia*
 Lily, Carolina: *Lilium michauxii*
 Lily, Turk's-cap: *Lilium superbum*
 Lily-of-the-valley, False: *Maianthemum canadense*
 Limpet, Cayenne Keyhole: *Diodora cayenensis*
 Limpet: *Crucibulum Lawrencei*
 Linden: *Tilia americana*, *Tilia caroliniana*, *Tilia heterophylla*, *Tilia* sp.
 Lindernia: *Lindernia dubia*
 Lion's-paw (shell): *Lyropecten nodosus*
 Little-sweet-Betsy: *Trillium cuneatum*, *Trillium cuneatum luteum*
 Liverleaf: *Hepatica acutiloba*, *Hepatica americana*
 Liverwort, Floating: *Riccia fluitans*, *Ricciocarpus natans*
 Lizard, Eastern Fence: *Sceloporus undulatus*
 Lizard, Glass: *Ophisaurus* sp.
 Lizard's-tail: *Saururus cernuus*
 Lobelia, Glade's: *Lobelia glandulosa*
 Lobelia: *Lobelia amoena*, *Lobelia boykinii*, *Lobelia elongata*, *Lobelia nuttallii*, *Lobelia puberula*, *Lobelia* sp.
 Loblolly-bay: *Gordonia lasianthus*
 Locust, Black: *Robinia pseudo-acacia*
 Locust, Bristly: *Robinia hispida*
 Locust, Carolina: *Dissosteira carolina*
 Locust, Honey: *Gleditsia triacanthos*
 Locust, Water: *Gleditsia aquatica*
 Locust: *Robinia* sp.
 Loon, Common: *Gavia immer*
 Loosetrife, Water: *Decodon verticillatus*
 Loosetrife, Whorled: *Lysimachia quadrifolia*
 Lop-seed: *Phryma leptostachya*
 Lotus: *Nelumbo lutea*
 Lousewort: *Pedicularis canadensis*
 Lovage: *Ligusticum canadense*
 Lucine, Cross-hatched: *Divaricella quadrisulcata*
 Ludwigia, Narrow-leaved: *Ludwigia linearis*
 Ludwigia, Trailing: *Ludwigia palustris*
 Ludwigia: *Ludwigia leptocarpa*, *Ludwigia pilosa*, *Ludwigia repens*, *Ludwigia sphaerocarpa*, *Ludwigia suffruticosa*, *Ludwigia* sp.
 Lupine, Common: *Lupinus diffusus*
 Lupine, Sundial: *Lupinus perennis*
 Lupine: *Lupinus* sp.
 Lycopus: *Lycopus rubellus*, *Lycopus* sp.
 Mackerel: *Scomber* sp.
 Maggot, Rat-tailed: *Eristalis tenax*
 Magnolia, Southern: *Magnolia grandiflora*
 Maleberry: *Lyonia ligustrina*
 Mallard: *Anas platyrhynchos*
 Mallow, Rose: *Hibiscus moscheutos*
 Mallow, Seashore: *Kosteletskyia virginica*
 Mandarin, Yellow: *Disporum lanuginosum*
 Mandarin: *Disporum* sp.
 Man-root: *Ipomoea pandurata*
 Mantid, Carolina: *Stagmomantis carolina*
 Mantid, Chinese: *Tenodera aridifolia sinensis*
 Maple, Chalk: *Acer saccharum leucoderme*
 Maple, Red: *Acer rubrum*
 Maple, Silver: *Acer saccharinum*
 Maple, Southern Sugar: *Acer saccharum floridanum*
 Maple, Striped: *Acer pensylvanicum*
 Maple, Sugar: *Acer saccharum*
 Marasmius, Orange Pinwheel: *Marasmius siccus*
 Marasmius, Pinwheel: *Marasmius rotula*, *Marasmius* sp.
 Mark, Question (butterfly): *Polygonia interrogationis*
 Marsh-elder: *Iva frutescens*
 Marsh-fleabane: *Pluchea camphorata*, *Pluchea foetida*, *Pluchea rosea*
 Marsh-pink, Common: *Sabatia stellaris*
 Martin, Purple: *Progne subis*
 Mayapple: *Podophyllum peltatum*
 Mayfly, Heptageniid: *Epeorus* sp.
 Mayfly: *Ephemerella* sp., *Isonychia* sp.
 Mazus: *Mazus japonicus*, *Mazus* sp.
 Meadow-beauty, Common: *Rhexia virginica*, *Rhexia virginica virginica*
 Meadow-beauty, Pale: *Rhexia mariana*
 Meadow-beauty, Smooth: *Rhexia alifanua*
 Meadow-beauty, Yellow: *Rhexia lutea*
 Meadow-beauty: *Rhexia* sp.
 Meadowfly (dragonfly): *Sympetrum* sp.
 Meadowfly, Yellow-legged: *Sympetrum vicinum*
 Meadowlark, Eastern: *Sturnella magna*
 Meadow-rue, Early: *Thalictrum dioicum*
 Meadow-rue: *Thalictrum clavatum*, *Thalictrum revolutum*, *Thalictrum* sp.
 Mecardonia: *Mecardonia acuminata*
 Medic, Black: *Medicago lupulina*
 Medic, Spotted: *Medicago arabica*
 Melanthera: *Melanthera hastata*
 Merchant, Hop: *Polygonia comma*

- Mercury, Three-seeded: *Acalypha gracilens*, *Acalypha* sp.
Merganser, Hooded: *Lophodytes cucullatus*
Merganser, Red-breasted: *Mergus serrator*
Mermaid-weed: *Proserpinaca pectinata*
Merulius, Coral-pink: *Merulius incarnatus*
Metalmark, Little (butterfly): *Calephelis virginensis*
Metarranthus, Yellow-washed: *Metarranthus obfirmaria*
Mexican-clover: *Richardia scabra*
Mexican-tea: *Chenopodium ambrosioides*
Micrathena, White (spider): *Micrathena mitrata*
Microstegium (grass): *Microstegium vimineum*
Milk-pea: *Galactia volubilis*
Milkweed, Narrowleaf: *Asclepias verticillata*
Milkweed, Poke: *Asclepias exaltata*
Milkweed, Sandhill: *Asclepias humistrata*
Milkweed, Swamp: *Asclepias perennis*
Milkweed, White: *Asclepias variegata*
Milkweed: *Asclepias amplexicaulis*, *Asclepias longifolia*,
Asclepias michauxii, *Asclepias quadrifolia*, *Asclepias* sp.
Milkweed-vine: *Cynanchum palustre*
Milkwort, Orange: *Polygala lutea*
Milkwort, Pine-barren: *Polygala cymosa*
Milkwort, Racemed: *Polygala polygama*
Milkwort: *Polygala* sp.
Milky (mushroom): *Lactarius* sp.
Milky, Buff Fishy: *Lactarius luteolus*
Milky, Common Violet-latex: *Lactarius uvidus*
Milky, Corrugated-cap: *Lactarius corrugis*
Milky, Indigo: *Lactarius indigo*
Milky, Peck's: *Lactarius peckii*
Milky, Peppery: *Lactarius piperatus*
Milky, Spotted-stalked: *Lactarius scrobiculatus*
Milky-cap, Voluminous-latex: *Lactarius volemus*
Millipede, Almond: *Signoria aberrans*
Millipede: *Narceus americanus*
Mimic: *Limenitis archippus*
Mimosa: *Albizia julibrissin*
Mink: *Mustela vison*
Mint, Bitter: *Hyptis alata*
Mint, Lemon: *Monarda citriodora*
Mint, Mountain: *Pycnanthemum flexuosum*, *Pycnanthemum*
incanum, *Pycnanthemum muticum*, *Pycnanthemum* sp.
Mistflower: *Eupatorium coelestinum*
Mistletoe: *Phoradendron serotinum*
Mite, Blackgum Capsule Gall: *Eriophyes nyssae*
Mite, Cherry Leaf Spindle Gall: *Phytomyces cerasicrumena*
Mite, Globular Elm Leaf Gall: *Eriophyes ulmi*
Mite, Linden Mite Gall: *Eriophyes abnormis*
Mite, Spiny Spindle Gall: *Phyllocoptes aceris-crumena*
Mite, Red Velvet: *Trombidium* sp.
Mite, Wild Cherry Pouch Gall: *Eriophyes padi*
Miterwort: *Cynoctotum mitreola*
Mockingbird, Northern: *Mimus polyglottos*
Mock-orange: *Philadelphus inodorus*
Modiola: *Modiola caroliniana*
Mole, Eastern: *Scalopus aquaticus*
Monarch (butterfly): *Danaus plexippus*
Monkey-flower: *Mimulus alatus*, *Mimulus ringens*
Monkshead: *Aconitum uncinatum*
Moonseed: *Menispermum canadense*
Moonwort: *Botrychium lunarioides*
Moonwort: *Botrychium* sp.
Moorhen, Common: *Gallinula chloropus*
Moose-antlers: *Wynnea americana*
Morel, Yellow: *Morchella esculenta*
Morning-glory, Common: *Ipomoea purpurea*
Morning-glory, Fiddle-leaf: *Ipomoea stolonifera*
Morning-glory, Ivy-leaf: *Ipomoea hederacea hederacea*
Morning-glory, Lavender Marsh: *Ipomoea sagittata*
Morning-glory, Little Red: *Ipomoea coccinea*
Morning-glory, White: *Bonania patens*
Morning-glory: *Ipomoea lacunosa*, *Ipomoea* sp.
Mosquito, Black Salt-marsh: *Aedes taeniorhynchus*
Mosquito, Fall Woodlands: *Aedes infirmatus*
Mosquito, Golden Salt-marsh: *Aedes sollicitans*
Mosquito, Unmarked Slender: *Culiseta inornata*
Mosquito: *Psorophora ferox*
Mosquitofish: *Gambusia* sp.
Moss, Apple: *Bartramia pomiformis*
Moss, Broom: *Dicranum scoparium*
Moss, Haircap: *Polytrichum commune*, *Polytrichum* sp.
Moss, Peat: *Sphagnum* sp.
Moth, Ailanthus Webworm: *Atteva punctella*
Moth, Angle: *Semiothisa* sp.
Moth, Ashen Pinion: *Lithophane antennata*
Moth, Azalea Hand-maid: *Datana major*
Moth, Banded Tussock: *Halysidota tessellaris*
Moth, Bella: *Utetheisa bella*
Moth, Black & Yellow Lichen: *Lycomorpha pholus*
Moth, Common Oak: *Phoberia atomaris*
Moth, Confused Eusara: *Eusara confusaria*
Moth, Dagger: *Acrioneta* sp.
Moth, Eight-spotted Forester: *Alypia octomaculata*
Moth, Emerald: *Synchlora* sp.
Moth, Evergreen Bagworm: *Thyridopteryx ephemeraeformis*
Moth, Fairy: *Adela purpurea*
Moth, Fall Webworm: *Hyphantria cunea*
Moth, Ferguson's Scallop Shell: *Hydria prunivorata*
Moth, Geometer: *Heliomata* sp.
Moth, Grape Leafroller: *Desmia funeralis*
Moth, Grapeleaf Skeletonizer: *Harrisina americana*
Moth, Great Leopard: *Epantheria scribonia*
Moth, Half-Yellow: *Tarachidia semiflava*
Moth, Hummingbird Clearwing: *Hemaris thysbe*
Moth, Immaculate Holomelina: *Holomelina immaculata*
Moth, Io: *Automeris io*
Moth, Large Necklace: *Hypsorophia monilis*
Moth, Leconte's Haploa: *Haploa lecontei*

- Moth, Luna: *Actias luna*
 Moth, Orange-patched Smoky: *Pyromorpha dimidiata*
 Moth, Pink-spotted Hawk: *Agrius cingulatus*
 Moth, Pistachio Emerald: *Helthemia pistaciaria*
 Moth, Pitcher-plant Borer: *Papaipema appassonata*
 Moth, Polyphemus: *Antheraea polyphemus*
 Moth, Regal: *Citheronia regalis*
 Moth, Rosy Maple: *Dryocampa rubicunda*
 Moth, Salt Marsh: *Estigmene acrea*
 Moth, Southern Flannel: *Megalopyge opercularis*
 Moth, Tulip-tree Beauty: *Epimecia hortaria*
 Moth, Virgin Tiger: *Grammia virgo*
 Moth, Virginia Ctenucha: *Ctenucha virginica*
 Moth, Virginian Tiger: *Spilosoma virginica*
 Moth, White-dotted Promile: *Nadatra gibbosa*
 Moth, White-striped Black: *Trichodezia albivittata*
 Mountain-ash: *Sorbus americana*
 Mountain-laurel: *Kalmia latifolia*
 Mouse, Cotton: *Peromyscus gossypinus*
 Mouse, Golden: *Ochrotomys nuttalli*
 Mouse-tail: *Myosurus minimus*
 Mud-dauber, Black & Yellow: *Sceliphron caementarium*
 Mudflower, Shade: *Micranthemum umbrosum*
 Mudminnow, Eastern: *Umbra pygmaea*
 Mudpuppy, Dwarf: *Necturus punctatus*
 Mulberry, Paper: *Broussonetia papyrifera*
 Mulberry, Red: *Morus rubra*
 Mule-ears: *Senecio tomentosus*
 Mullein, Moth: *Verbascum blattaria*
 Mullein, Woolly: *Verbascum thapsus*
 Mummichog (fish): *Fundulus heteroclitus*
 Murex (snail): *Chicoreus* sp.
 Muscadine: *Vitis rotundifolia*
 Mushroom, American Caesar's: *Amanita caesarea*
 Mushroom, Cauliflower: *Sparassis spathulata*, *Sparassis* sp.
 Mushroom, Chicken: *Laetiporus sulphureus*
 Mushroom, Coral: *Clavaria flava*
 Mushroom, False Caesar's: *Amanita parvovolvata*
 Mushroom, Fawn: *Pluteus cervinus*
 Mushroom, Honey: *Armillariella mellea*
 Mushroom, Lilac-spotted: *Pleurotus sapidus*
 Mushroom, Magnolia-cone: *Strobilurus conigenoides*
 Mushroom, Meadow: *Agaricus campestris*
 Mushroom, Oyster: *Pleurotus ostreatus*, *Pleurotus* sp.
 Mushroom, Panther: *Amanita pantherina*
 Mushroom, Ringless Honey: *Armillariella tabascens*
 Muskrat: *Ondatra zibethicus*
 Mussel, Ribbed: *Geukensia demissa*
 Mussel: *Brachiodontes* sp.
 Mustard, Tansy: *Descurainia brachycarpa*, *Descurainia pinnata*
 Mycena (mushroom): *Mycena inclinata*, *Mycena vulgaris*
 Mycena, Common: *Mycena galericulata*
 Mycena, Coral Spring: *Mycena acicula*
 Mycena, Orange: *Mycena leaiana*
 Mycena, Spotted: *Mycena maculata*
 Naiad, Slender: *Najas minor*
 Naiad, Southern: *Najas guadalupensis*
 Nandina: *Nandina domestica*
 Narcissus: *Narcissus tazetta* x *poeticus*, *Narcissus* sp.
 Nettle, False: *Boehmeria cylindrica*
 Nettle, Stinging: *Urtica chamaedryoides*
 New-Jersey-tea: *Ceanothus americanus*
 Newt, Eastern: *Notophthalmus viridescens*
 Night-Heron, Black-crowned: *Nycticorax nycticorax*
 Nightshade: *Solanum americanum*, *Solanum* sp.
 Ninebark: *Physocarpus opulifolius*
 Nuthatch, Brown-headed: *Sitta pusilla*
 Nuthatch, Red-breasted: *Sitta canadensis*
 Nuthatch, White-breasted: *Sitta carolinensis*
 Nut-rush: *Scleria ciliata*, *Scleria minor*, *Scleria oligantha*, *Scleria triglomerata*, *Scleria* sp.
 Oak, Black Jack: *Quercus marilandica*
 Oak, Black: *Quercus velutina*
 Oak, Blue-jack: *Quercus incana*
 Oak, Cherrybark: *Quercus falcata pagodaefolia*
 Oak, Laurel: *Quercus laurifolia*
 Oak, Live: *Quercus virginiana*
 Oak, Oglethorpe: *Quercus oglethorpensis*
 Oak, Overcup: *Quercus lyrata*
 Oak, Post: *Quercus stellata*
 Oak, Red: *Quercus rubra*, *Quercus rubra rubra*
 Oak, Rock Chestnut: *Quercus prinus*
 Oak, Running: *Quercus pumila*
 Oak, Sand Live: *Quercus virginiana geminata*
 Oak, Sawtooth: *Quercus acutissima*
 Oak, Scarlet: *Quercus coccinea*
 Oak, Scrubby Post: *Quercus margaretta*
 Oak, Southern Red: *Quercus falcata falcata*
 Oak, Spanish: *Quercus falcata*, *Quercus falcata falcata*
 Oak, Swamp Chestnut: *Quercus michauxii*
 Oak, Swamp Red: *Quercus shumardii*
 Oak, Turkey: *Quercus laevis*
 Oak, Water: *Quercus nigra*
 Oak, White: *Quercus alba*
 Oak, Willow: *Quercus phellos*
 Oak, Yellow Chestnut: *Quercus muehlenbergii*
 Oak: *Quercus* sp.
 Oak-apple (gall wasp): *Amphibolips inanis*
 Oak-apple, Nippled (gall wasp): *Amphibolips cookii*
 Oak-apple, Spongy (gall wasp): *Amphibolips confusus*
 Oats, River: *Uniola latifolia*
 Oats, Sea: *Uniola paniculata*
 Oconee-bells: *Shortia galacifolia*
 Oldenlandia: *Oldenlandia uniflora*
 Old-man-of-the-woods: *Strobilomyces floccopus*
 Olive (snail): *Oliva* sp.
 Olive, Lettered (snail): *Oliva sayana*

- Olive, Lettered: *Oliva sayana*
 Olive, Wild: *Osmanthus americana*
 Olive: *Olivella caroliniae*, *Oliva carolinensis*, *Olivella mutica*
 Onion, Wild: *Allium canadense*
 Oplismenus (grass): *Oplismenus setarius*
 Opossum, Virginia: *Didelphis virginiana*
 Orach, Marsh: *Atriplex patula*
 Orach, Seabeach: *Atriplex arenaria*
 Orange, Sleepy (butterfly): *Eurema nicippe*
 Orange, Trifoliate: *Poncirus trifoliata*
 Orangetip, Falcate: *Anthocharis midea*
 Orb-weaver, Long-jawed: *Tetragnatha elongata*, *Tetragnatha laboriosa*, *Tetragnatha sp.*
 Orb-weaver, Marbled: *Araneus marmoreus*
 Orb-weaver: *Araneus bicentenarius*, *Araneus sp.*, *Neoscona arabesca*, *Neoscona domiciliorum*, *Neoscona hentzi*, *Neoscona sp.*
 Orchid, Crane-fly: *Tipularia discolor*
 Orchid, Crested Fringed: *Habenaria cristata*
 Orchid, Small Green Wood: *Habenaria clavellata*
 Orchid, Southern Rein: *Habenaria flava*
 Orchid, Three Birds: *Triphora trianthophora*
 Orchid, Yellow Fringed: *Habenaria ciliaris*
 Orchis, Showy: *Orchis spectabilis*
 Oriole, Orchard: *Icterus spurius*
 Osprey: *Pandion halliaetus*
 Otter, River: *Lutra canadensis*
 Ovenbird: *Seiurus aurocapillus*
 Owl, Barred: *Strix varia*
 Owl, Long-eared: *Asio otus*
 Ox-eye, Sea: *Borrchia frutescens*
 Oxypolis: *Oxypolis filiformis*, *Oxypolis ternata*, *Oxypolis sp.*
 Oyster, Bitter: *Panelus stipticus*
 Oyster, Black Jelly: *Resupinatus applicatus*
 Oyster, Eastern: *Crassostrea virginica*
 Oyster, Leaflike: *Hohenbuehelia petaloides*
 Oyster, Winged Pearl: *Pteria colymbus*
 Oyster: *Conradostrea lawrencei*, *Crassostrea virginiana*, *Crassostrea virginica*, *Ostrea lawrencei*, *Ostrea sp.*
 Oystercatcher, American: *Haematopus palliatus*
 Oyster-drill, Atlantic: *Urosalpinx cinerea*
 Oyster-drill, Thick-lipped: *Eupleura caudata*
 Oyster-mop, Yellow: *Trocholomopsis sulfureoides*
 Painted-leaf: *Euphorbia heterophylla*
 Palm, Needle: *Rhapidophyllum hystrix*
 Palmetto, Cabbage: *Sabal palmetto*
 Palmetto, Dwarf: *Sabal minor*
 Palmetto, Saw: *Serenoa repens*
 Palmetto-bug: *Periplaneta fuliginosa*
 Parasol: *Lepiota procera*
 Parasol-tree, China: *Firmiana platanifolia*
 Parchment, Crowded: *Stereum complicatum*
 Parchment, Silky: *Stereum striatum*
 Paronychia: *Paronychia riparia*
 Parsley, Marsh: *Apium leptophyllum*
 Parsnip, Meadow: *Thaspium barbinode*, *Thaspium trifoliatum*, *Thaspium trifoliatum flavum*, *Zizia trifoliata*
 Parsnip, Water: *Sium suave*
 Partridge-berry: *Mitchella repens*
 Partridge-pea: *Cassia fasciculata*
 Parula, Northern: *Parula americana*
 Paspalum (grass): *Paspalum floridanum*, *Paspalum sp.*
 Passalus: *Popilius disjunctus*
 Passionflower, Yellow: *Passiflora lutea*
 Passionflower: *Passiflora incarnata*
 Paw Paw, Dwarf: *Asimina parviflora*
 PawPaw: *Asimina triloba*, *Asimina sp.*
 Paxillus, Poison: *Paxillus involutus*
 Peach: *Prunus persica*
 Pearlwort: *Sagina decumbens*
 Pecan: *Carya illinoensis*
 Pecten: *Chlamys cocoana*, *Chlamys sp.*
 Peeper, Spring: *Hyla crucifer*
 Pelican, Brown: *Pelecanus occidentalis*
 Pen (shell): *Atrina sp.*
 Pen, Amber (shell): *Pinna carnea*
 Pen, Half-naked (shell): *Atrina seminuda*
 Pen, Stiff (shell): *Atrina rigida*
 Pencil-flower: *Stylasanthus biflora*
 Pennant, Amanda's (dragonfly): *Celithemis amanda*
 Pennant, Banded (dragonfly): *Celithemis fasciata*
 Pennant, Calico (dragonfly): *Celithemis elisa*
 Pennant, Four-spotted (dragonfly): *Brachymeria gravida*
 Pennant, Halloween (dragonfly): *Celithemis eponina*
 Pennyroyal: *Hedeoma pulegioides*
 Pennywort, Dune: *Hydrocotyle bonariensis*
 Pennywort, Marsh: *Hydrocotyle umbellata*
 Pennywort, Water: *Hydrocotyle ranunculoides*
 Pennywort: *Hydrocotyle sibthorpioides*, *Hydrocotyle verticillata*, *Hydrocotyle sp.*, *Obolaria virginica*
 Pepperbush, Mountain Sweet: *Clethra acuminata*
 Pepperbush, Sweet: *Clethra alnifolia*, *Clethra alnifolia alnifolia*, *Clethra alnifolia tomentosa*
 Pepper-vine: *Ampelopsis arborea*, *Ampelopsis cordata*
 Periwinkle: *Vinca major*, *Vinca minor*
 Persimmon: *Diospyros virginiana*
 Phacelia: *Phacelia dubia*, *Phacelia dubia georgiana*, *Phacelia sp.*
 Phalarope, Wilson's: *Phalaropus tricolor*
 Phlox, Annual: *Phlox drummondii*
 Phlox, Creeping: *Phlox stolonifera*
 Phlox, Smooth: *Phlox glaberrima*
 Phlox: *Phlox amoena*, *Phlox carolina*, *Phlox nivalis*, *Phlox sp.*
 Phoebe, Eastern: *Sayornis phoebe*
 Phyllanthus: *Phyllanthus sp.*
 Pickerel: *Esox sp.*
 Pickerelweed: *Pontederia cordata*

- Pig, Wild: *Sus scrofa*
 Pimpernel, False: *Lindernia monticola*
 Pimpernel, Water: *Samolus parviflorus*
 Pine, Loblolly: *Pinus taeda*
 Pine, Long-leaf: *Pinus palustris*
 Pine, Pitch: *Pinus rigida*
 Pine, Pond: *Pinus serotina*
 Pine, Sand: *Pinus clausa*
 Pine, Scrub: *Pinus virginiana*
 Pine, Short-leaf: *Pinus echinata*
 Pine, Slash: *Pinus elliotti*
 Pine, Spruce: *Pinus glabra*
 Pine, Table Mountain: *Pinus pungens*
 Pine, Virginia: *Pinus virginiana*
 Pine, White: *Pinus strobus*
 Pine: *Pinus sp.*
 Pine-sap: *Monotropa hypopithys*
 Pineweed: *Hypericum gentianoides*
 Pink, Deptford: *Dianthus armeria*
 Pink, Fire: *Silene virginica*
 Pink, Wild: *Silene caroliniana*
 Pinkweed: *Polygonum pensylvanicum*
 Pintail, Northern: *Anas acuta*
 Pin-weed: *Lechea villosa*, *Lechea sp.*
 Pinxter-bloom: *Rhododendron nudiflorum*
 Pinxter-flower: *Rhododendron nudiflorum*
 Pipewort: *Eriocaulon decangulare*, *Eriocaulon sp.*
 Piriqueta: *Piriqueta caroliniana*
 Pitcher-plant, Hooded: *Sarracenia minor*
 Pitcher-plant, Sweet: *Sarracenia rubra*
 Pitcher-plant, Trumpet: *Sarracenia flava*
 Plantain, Bracted: *Plantago aristata*
 Plantain, Broadleaf: *Plantago rugelii*
 Plantain, English: *Plantago lanceolata*
 Plantain: *Plantago sp.*
 Plover, Black-bellied: *Pluvialis squatarola*
 Plover, Piping: *Charadrius melodus*
 Plover, Semipalmated: *Charadrius semipalmatus*
 Plum, Chickasaw: *Prunus angustifolia*
 Plum, Hog: *Prunus umbellata*
 Plum, Wild: *Prunus americana*
 Pogonia, Rose: *Pogonia ophioglossoides*
 Poison-ivy: *Rhus radicans*
 Poison-oak: *Rhus toxicodendron*
 Pokeberry: *Phytolacca americana*
 Pokeweed: *Phytolacca americana*
 Polycarpon: *Polycarpon tetraphyllum*
 Polygala, Fringed: *Polygala paucifolia*
 Polygala: *Polygala grandiflora*, *Polygala incarnata*,
Polygala mariana, *Polygala ramosa*, *Polygala verticillata*
 Polygonum: *Polygonum cespitosum longisetum*,
Polygonum sp.
 Polypore, Cinnabar-red: *Pycnoporus cinnabarinus*
 Polypore, Elegant: *Polyporus varius*
 Polypore, Gelatinous-pored: *Caloporus dichrous*
 Polypore, Larch: *Fomitopsis officinalis*
 Polypore, Multicolor Gill: *Lenzites betulinae*
 Polypore, Mustard-yellow: *Phellinus gilvus*
 Polypore, Rooting: *Polyporus radicans*
 Polypore, Smoky: *Bjerkandera adusta*, *Bjerkandera sp.*
 Polypore, Spongy Toothed: *Spongipellis pachydont*
 Polypore, Tinder: *Fomes fomentarius*
 Polypore, Violet Toothed: *Trichaptum bififormis*
 Polypremum: *Polypremum procumbens*
 Pond-cypress: *Taxodium ascendens*
 Pondhawk, Eastern: *Erythemis simplicicollis*
 Pond-lily, Yellow: *Nuphar luteum*
 Pondspice: *Litsea aestivalis*
 Pondweed, Spotted: *Potamogeton pulcher*
 Pondweed: *Potamogeton diversifolius*, *Potamogeton sp.*
 Pool-sprite: *Amphianthus pusillus*
 Poor-jo (or Po-jo): *Diodia teres*
 Poor-man's-pepper: *Lepidium virginicum*
 Poplar: *Populus sp.*
 Poria, Orange: *Poria spissa*
 Prenanthes: *Prenanthes sp.*
 Prickly-pear: *Opuntia compressa*, *Opuntia sp.*
 Princess-tree: *Paulownia tomentosa*
 Privet, Chinese: *Ligustrum sinense*
 Privet, Swamp: *Forestiera acuminata*
 Privet: *Ligustrum japonicum*, *Ligustrum vulgare*,
Ligustrum sp.
 Psathyrella (mushroom): *Psathyrella sp.*
 Psyllid, Hackberry Gall (aphid): *Pachypsylla venusta*
 Pterorhytis: *Pterorhytis conradi*
 Puffball, Buried-stalk: *Tulostoma simulans*
 Puffball, False: *Scleroderma vulgare*
 Puffball, Gem-Studded: *Lycoperdon perlatum*
 Puffball, Granular: *Arachnion album*
 Puffball, Mini: *Lycoperdon pusillum*
 Puffball, Pear-shaped: *Lycoperdon pyriforme*
 Puffball, Pigskin Poison: *Scleroderma citrinum*
 Puffball, Purple-spored: *Calvatia cyathiformis*
 Puffball, Skull-shaped: *Calvatia craniformis*
 Puffball, Spiny: *Lycoperdon echinatum*
 Puffball, Tough: *Mycenastrum corium*
 Puffball: *Calvatia utriformis*, *Lycoperdon sp.*
 Puffball-in-aspic, Stalked: *Calostoma cinnabarina*
 Purple, Red-spotted (butterfly): *Limenitis arthemis astyanax*
 Purple-bead: *Galium hispidulum*
 Purple-top: *Tridens flavus*
 Purslane: *Portulaca coronata*, *Portulaca oleracea*
 Pussy-toes: *Antennaria plantaginifolia*, *Antennaria solitaria*,
Antennaria sp.
 Puttyroot: *Aplectrum hyemale*
 Pyrrhopappus: *Pyrrhopappus carolinianus*
 Pyxie-moss: *Pyxidanthra barbulate*, *Pyxidanthra*
barbulate barbulate, *Pyxidanthra barbulate brevifolia*

- Queen (butterfly): *Danaus gilippus*
 Queen's-delight: *Stillingia sylvatica*
 Quillwort: *Isoetes melanopoda*, *Isoetes* sp.
 Quinine, Wild: *Parthenium integrifolium*
 Rabbit, Marsh: *Sylvilagus palustris*
 Rabbit: *Sylvilagus* sp.
 Rabbit-tobacco: *Gnaphalium obtusifolium*, *Gnaphalium* sp.
 Raccoon: *Procyon lotor*
 Racer, Black: *Coluber constrictor*
 Racerunner, Six-lined: *Cnemidophorus sexlineatus*
 Radish, Wild: *Raphanus raphanistrum*
 Ragweed, Common: *Ambrosia artemisiifolia*
 Ragwort, Small's: *Senecio smallii*
 Ragwort: *Senecio aureus*, *Senecio* sp.
 Rail, Clapper: *Rallus longirostris*
 Rail, King: *Rallus elegans*
 Rail, Virginia: *Rallus limicola*
 Rangia, Wedge: *Rangia cuneata*
 Raspberry, Flowering: *Rubus odoratus*
 Rat, Hispid Cotton: *Sigmodon hispidus*
 Rattlebox: *Crotalaria angulata*, *Crotalaria purshii*,
Crotalaria spectabilis, *Crotalaria* sp.,
 Rattlesnake, Timber: *Crotalus horridus*
 Rattlesnake-plantain, Downy: *Goodyera pubescens*
 Rattlesnake-root: *Prenanthes altissima*
 Rattlesnake-weed: *Hieracium venosum*
 Raven, Common: *Corvus corax*
 Ray, Sting: *Dasyatis* sp.
 Redbay: *Persea borbonia*
 Redbud: *Cercis canadensis*
 Red-cedar, Eastern: *Juniperus virginiana*
 Red-cedar, Southern: *Juniperus silicicola*
 Redroot: *Geum canadense*
 Redroot: *Lachnanthes caroliniana*
 Redstart, American: *Setophaga ruticilla*
 Reed, Giant: *Arundo donax*
 Rhynchosia: *Rhynchosia* sp.
 Rice, Southern Wild: *Zizaniopsis miliacea*
 Rice, Wild: *Zizania aquatica*
 Richardia: *Richardia brasiliensis*, *Richardia* sp.
 Riverweed: *Podostemum ceratophyllum*
 Robin, American: *Turdus migratorius*
 Robin's-plantain: *Erigeron pulchellus*
 Rock-cress: *Arabis laevigata missouriensis*
 Rock-portulaca: *Talinum teretifolium*
 Rockrose: *Helianthemum corymbosum*, *Helianthemum*
rosmarinifolium
 Rose, Cherokee: *Rosa laevigata*
 Rose, Multiflora: *Rosa multiflora*
 Rose, Swamp: *Rosa palustris*
 Rose, Wild: *Rosa carolina*
 Rose: *Rosa micrantha*, *Rosa* sp.
 Rosebay: *Rhododendron maximum*
 Roseling: *Tradescantia rosea graminea*
 Roseling, Spiderwort: *Tradescantia rosea*
 Rosemary: *Ceratiola ericoides*
 Rose-pink: *Sabatia angularis*
 Rosinweed: *Silphium compositum*
 Rue-anemone, False: *Isopyrum bitermum*
 Ruellia: *Ruellia carolinensis*, *Ruellia purshiana*, *Ruellia* sp.
 Running-pine: *Lycopodium flabelliforme*
 Rush, Black Needle: *Juncus roemerianus*
 Rush, Path: *Juncus tenuis*
 Rush, Toad: *Juncus bufonius*
 Rush: *Juncus dichotomus*, *Juncus georgianus*, *Juncus*
scirpoides, *Juncus* sp.
 Rushfoil: *Crotonopsis elliptica*
 Russian-olive: *Elaeagnus umbellata*
 Russian-thistle: *Salsola kali*
 Russula, Blackish-red: *Russula kromholzii*
 Russula, Emetic: *Russula emetica*
 Russula, Fragile: *Russula fragilis*
 Russula, Graying Yellow: *Russula claroflava*
 Russula, Pectinate: *Russula pectinatoides*
 Russula, Purple-bloom: *Russula mariae*
 Russula, Red: *Russula* sp.
 Russula, Rosy: *Russula rosacea*
 Russula, Tacky Green: *Russula aeruginea*
 Russula, Variable: *Russula variata*
 Russula, Yellow: *Russula lutea*
 Rust, Cedar Apple: *Gymnosporangium junipervirginianae*
 Rust, Loblolly Pine: *Cronartium fusiforme*
 Rust, Pine-oak: *Cronartium quercuum*
 Rust: *Gymnosporangium* sp.
 Sabatia: *Sabatia calycina*, *Sabatia campanulata*, *Sabatia*
difformis, *Sabatia* sp.
 Sage, Lyre-leaved: *Salvia lyrata*
 Sage, Wood: *Teucrium canadense*
 Sage: *Salvia urticifolia*
 Salamander, Dusky: *Desmognathus* sp.
 Salamander, Jordan's: *Plethodon jordani*
 Salamander, Marbled: *Ambystoma opacum*
 Salamander, Mole: *Ambystoma talpoideum*
 Salamander, Mountain Dusky: *Desmognathus ochrophaeus*
 Salamander, Northern Dusky: *Desmognathus fuscus*
 Salamander, Seal: *Desmognathus monticola*
 Salamander, Shovelnose: *Leurognathus marmoratus*
 Salamander, Slimy: *Plethodon glutinosus*
 Salamander, Southern Dusky: *Desmognathus auriculatus*
 Salamander, Two-lined: *Eurycea bislineata*
 Sallow, Footpath (moth): *Metaxaglaea semitaria*
 Saltwort: *Batis maritima*
 Salvia: *Salvia* sp.
 Sandbur, Dune: *Cenchrus tribuloides*
 Sandbur: *Cenchrus* sp.
 Sand-dollar: *Mollia caroliniana*, *Periarchus lyell*,
 Sanderling: *Calidris alba*
 Sand-myrtle: *Leiorhaphis buxifolium*

- Sandpiper, Least: *Calidris minutilla*
 Sandpiper, Semipalmated: *Calidris pusilla*
 Sandpiper, Spotted: *Actitis macularia*
 Sandpiper, Western: *Calidris mauri*
 Sandwort, Mountain: *Arenaria groenlandica glabra*
 Sandwort, Rock: *Arenaria uniflora*
 Sandwort: *Arenaria caroliniana*, *Arenaria groenlandica*
 Sanicle: *Sanicula canadensis*
 Sapsucker, Yellow-bellied: *Sphyrapicus varius*
 Sarsaparilla, Wild: *Aralia nudicaulis*
 Sarsaparilla-vine: *Smilax pumila*
 Sassaparilla: *Sassafras albidum*
 Satyr, Carolina (butterfly): *Hermeuptychia sosybius*
 Satyr, Gemmed (butterfly): *Cylopsis gemma*
 Satyr, Georgia (butterfly): *Neonympha areolata*
 Savory, Shrubby: *Satureja georgiana*
 Sawbrier: *Smilax glauca*
 Sawfish (rostral tooth): *Pristis* sp.
 Sawfly, Argid: *Argidae* Family
 Sawgill, Tiger: *Lentinus tigrinus*
 Saw-grass: *Cladium jamaicense*
 Saxifrage, Golden: *Chrysosplenium americanum*
 Saxifrage: *Saxifraga micchauxii*, *Saxifraga micranthidifolia*,
Saxifraga virginiana
 Scaber-stalk, Common: *Leccinum scabrum*
 Scale, Cottony Cushion: *Icerya purchasi*
 Scallop: *Argopecten eboreus*, *Argopecten venicianus*,
Carolinapecten arboreus, *Carolinapecten solarioides*,
Chesapeake jacksonii, *Chesapeake madisonii*,
Chesapeake septentrionalis, *Pecten brouweri*, *Pecten* sp., *Placopecten clintonius*,
Pecten sp.
 Scaup, Greater: *Aythya marila*
 Scaup, Lesser: *Aythya affinis*
 Scleroderma, Earthstar: *Scleroderma geaster*
 Scorpion: *Centruroides vittatus*, *Centruroides* sp.
 Screech-owl, Eastern (call): *Otus asio*
 Screech-owl, Eastern: *Otus asio*
 Scud: *Crangonyx serratus*
 Sea-blight: *Suaeda linearis*
 Sea-cucumber, Brown: *Sclerodactyla briareus*
 Sea-cucumber, Striped: *Thyonella gemmata*
 Sea-horse: *Hippocampus reidi*
 Seal, False Solomon's: *Smilacina racemosa*
 Sea-lavender: *Limonium carolinianum*, *Limonium nashii*,
Limonium sp.
 Sea-myrtle: *Baccharis halimifolia*
 Sea-pork (tunicate): *Aplidium constellatum*, *Aplidium* sp.
 Sea-purslane: *Sesuvium portulacastrum*
 Searcher, Fiery: *Calosoma scrutator*
 Searcher, Ground Beetle: *Calosoma calidum*, *Carabus*
sylyosus, *Carabus victus*
 Sea-rocket: *Cakile harperi*, *Cakile* sp.
 Seaweed, Dead Man's Fingers: *Codium* sp.
 Sea-whip: *Leptogorgia virgulata*
 Sebastian-bush: *Sebastiania ligustrina*
 Sedge, Brown Checkered Summer: *Polycentropus* sp.
 Sedge, Fraser's: *Cymophyllus fraseri*
 Sedge, Giant Brown Autumn: *Pycnospyche divergens*,
Pycnospyche gentilis
 Sedge, Little Plain Brown: *Lepidostoma* sp.
 Sedge, White-bracted: *Dichromena colorata*, *Dichromena*
latifolia
 Sedge: *Carex amphibola*, *Carex blanda*, *Carex caroliniana*,
Carex cephalophora, *Carex communis*, *Carex*
complanata, *Carex crinita*, *Carex debilis*, *Carex*
digitalis, *Carex flaccosperma*, *Carex retroflexa*, *Carex*
glaucescens, *Carex intumescens*, *Carex laxiculmis*,
Carex laxiflora, *Carex lurida*, *Carex oxylepis*, *Carex*
plantaginifolia, *Carex rosea*, *Carex virescens*, *Carex*
vulpinoidea, *Carex walteriana*, *Carex willdenowii*,
Carex sp.
 Seed-box, Slender: *Ludwigia virgata*
 Seed-box: *Ludwigia alternifolia*
 Senecio: *Senecio millefolium*
 Senna, Wild: *Cassia marilandica*
 Sensitive-brier: *Schrankia microphylla*
 Sensitive-plant, Wild: *Cassia nictitans*
 Sericea: *Lespedeza cuneata*
 Serviceberry, Downy: *Amelanchier arborea*, *Amelanchier*
arborea arborea
 Serviceberry: *Amelanchier* sp.
 Sesbania: *Sesbania exaltata*
 Seymeria: *Seymeria cassioides*
 Shadbush: *Amelanchier canadensis*, *Amelanchier obovalis*,
Amelanchier sp.
 Shaggy-mane: *Coprinus comatus*
 Shark (tooth): *Carcharodon megalodon*
 Shark, Bull (tooth): *Carcharhinus leucas*
 Shark, Cow (tooth): *Hexanchus* sp.
 Shark, Eared White (tooth): *Carcharodon auriculatus*
 Shark, Ground (tooth): *Carcharhinus* sp.
 Shark, Lemon (tooth): *Negaprion brevirostris*
 Shark, Mackerel: *Lamna* sp.
 Shark, Modern Great White: *Carcharodon carcharias*
 Shark, Sand (tooth): *Odontaspis hopei*
 Shark, Sand Tiger (tooth): *Odontaspis taurus*
 Shark, Sand Tiger: *Odontaspis faurus*
 Shark, Sand: *Odontaspis* sp.
 Shark: *Hemipristis serra*
 Shark-eye: *Polineces duplicatus*
 Sheep-kill: *Kalmia angustifolia caroliniana*
 Sheep-laurel: *Kalmia angustifolia*
 Sheep-sorrel: *Rumex acetosella*
 Shelf, Varnish: *Ganoderma curtisii*
 Shell, Cone: *Comus adversarius*, *Comus waccamawensis*
 Shell, Gouldia: *Gouldia metastriata*
 Shell, Jingle: *Anomia simplex*, *Anomia* sp.
 Shell, Worm: *Vermicularia knorrii*

- Shellmound-shrub: *Sageretia minutiflora*
 Sherardia: *Sherardia arvensis*
 Shooting-star: *Dodecatheon meadia*
 Shortia: *Shortia galacifolia*
 Shoveler, Northern: *Anas clypeata*
 Shrew, Least: *Cryptotis parva*
 Shrew, Southern Short-tailed: *Blarina carolinensis*
 Shrew: *Blarina sp.*
 Shrike, Loggerhead: *Lanius ludovicianus*
 Shrimp, Ghost: *Callinassa sp.*
 Shrimp, W.I. Ghost (burrows): *Callinassa major*
 Sicklepod: *Cassia obtusifolia*
 Silkmoth, Sweetbay: *Callosamia securifera*
 Silphium: *Silphium astericus*, *Silphium dentatum*, *Silphium sp.*
 Silverbell, Carolina: *Halesia carolina*
 Silverbell: *Halesia parviflora*, *Halesia sp.*
 Skate (egg case): *Raja sp.*
 Skate, Clearnose (egg case): *Raja eglanteria*
 Skimmer, Bar-winged: *Libellula axilena*
 Skimmer, Black: *Rhynchops niger*
 Skimmer, Corporal: *Libellula exusta deplanata*
 Skimmer, Golden-winged: *Libellula auripennis*
 Skimmer, Great Blue: *Libellula vibrans*
 Skimmer, Painted: *Libellula semifasciata*
 Skimmer, Pied: *Libellula luctuosa*
 Skimmer, Pond: *Libellula sp.*
 Skimmer, Roseate (dragonfly): *Orthemis ferruginea*
 Skimmer, Slaty: *Libellula incesta*
 Skimmer, Twelve-spotted: *Libellula pulchella*
 Skink, Broadhead: *Eumeces laticeps*
 Skink, Five-lined: *Eumeces fasciatus*, *Eumeces sp.*
 Skink, Ground: *Scincella lateralis*
 Skink, SE 5-lined: *Eumeces sp.*
 Skink: *Eumeces sp.*
 Skipper, Duskywing: *Erynnis sp.*
 Skipper, Fiery: *Hylephila phyleus*
 Skipper, Golden: *Poanes sp.*
 Skipper, Least: *Ancyloxypha numitor*
 Skipper, Long-tailed: *Urbanus proteus*
 Skipper, Silver-spotted: *Epargyreus clarus*
 Skipper, Zabulon: *Poanes zabulon*
 Skipperling, Southern: *Copaodes minimus*
 Skullcap, Common: *Scutellaria integrifolia*
 Skullcap: *Scutellaria elliptica*, *Scutellaria lateriflora*, *Scutellaria sp.*
 Slant-line, Yellow (moth): *Tetracis crocallata*
 Slider, Yellow-bellied: *Chrysemys scripta*
 Slime, Carnival Candy: *Arcyria demodata*
 Slime, Chocolate Tube: *Stemonitis splendens*
 Slime, Coral: *Ceratiomyxa fruticulosa*
 Slime, Japanese Lantern: *Dictydium cancellatum*
 Slime, Scrambled-egg: *Fuligo septica*
 Slime, Tapioca: *Brefeldia maxima*
 Slime, White-Footed: *Diachea leucopodia*
 Slime, Wolf's-milk: *Lycogala epidendrum*
 Slipper, Atlantic: *Crepidula fornicata*
 Slipper, Common (snail): *Crepidula fornicata*
 Slipper, Flat (snail): *Crepidula plana*
 Slippery-Jack: *Suaeda leucae*
 Smartweed, Dotted: *Polygonum punctatum*
 Smartweed, Nodding: *Polygonum lapathifolium*
 Smartweed, Water: *Polygonum densiflorum*
 Smartweed: *Polygonum hydropiperoides opelousanum*, *Polygonum setaceum*
 Smilax, Bamboo: *Smilax laurifolia*
 Smilax, Sweet-scented: *Smilax smallii*
 Snail, Augur: *Terebra sp.*
 Snail, Chain River Water: *Goniobasis catenaria*
 Snail, Disk Cannibal: *Haplotrema concavum*
 Snail, Eastern Mud: *Ilyanassa obsoleta*
 Snail, Elongate Cannibal: *Euglandia rosea*
 Snail, Exogyra: *Exogyra costata*
 Snail, Forest Disk: *Anguispira alternata*
 Snail, Freshwater: *Physella sp.*
 Snail, Giant Forest: *Mesodon normalis*
 Snail, Juxtaposed Forest: *Triodopsis juxtidentis*
 Snail, Lesser Mystery: *Campeloma decisum*
 Snail, Marine: *Turritella sp.*
 Snail, Marsh Periwinkle: *Littorina irrorata*
 Snail, Philippi's Nutmeg: *Trigonostoma tenera*
 Snail, Ripe Forest: *Mesodon zealeus*
 Snail, River Horn: *Elimia sp.*
 Snail, Southern Moon: *Polinices duplicatus*
 Snail, Turritella: *Turritella perexilis*
 Snail, Two-keeled Valve: *Valvata bicarinata*
 Snail, White-lipped Forest: *Mesodon thyroideus*, *Triodopsis albolabris*
 Snake, Banded Water: *Nerodia fasciata*
 Snake, Brown Water: *Nerodia taxipilota*
 Snake, Corn: *Elaphe guttata*
 Snake, Eastern Garter: *Thamnophis sirtalis*
 Snake, Eastern Hognose: *Heterodon platyrhinos*
 Snake, Northern Water: *Nerodia sipedon*
 Snake, Rat: *Elaphe obsoleta*
 Snake, Redbelly Water: *Nerodia erythrogaster*
 Snake, Ringneck: *Diadophis punctatus*
 Snake, Rough Green: *Opheodrys aestivus*
 Snake, Worm: *Carphophis amoenus*
 Snakebird: *Anhinga anhinga*
 Snakeroot, Black: *Sanicula marilandica*, *Zigadenus densus*
 Snakeroot, Button: *Eryngium yuccifolium*
 Snakeroot, Samson: *Psoralea psoraloides*, *Psoralea psoraloides psoraloides*
 Snakeroot, Virginia: *Aristolochia serpentaria*
 Snakeroot, White: *Eupatorium rugosum*
 Snakeroot, Yellow-flowered: *Sanicula gregaria*
 Snakeroot: *Sanicula sp.*, *Eryngium integrifolium*

- Snakeroot; Sanicle: *Sanicula smallii*
 Sneezeweed: *Helenium autumnale*, *Helenium flexuosum*
 Snipe, Common: *Gallinago gallinago*
 Snout, American (butterfly): *Libythea carinenta*
 Snowbell, Bigleaf: *Styrax grandifolia*
 Snowbell: *Styrax americana*
 Snowdrops: *Leucojum aestivum*
 Soft Rush: *Juncus effusus*
 Solomon's-seal: *Polygonatum biflorum*, *Polygonatum sp.*
 Sora: *Porzana carolina*
 Sorrel; Dock: *Rumex sp.*
 Sour-grass: *Rumex acetosella*
 Sourwood: *Oxydendrum arboreum*
 Sow-thistle, Common: *Sonchus oleraceus*
 Sow-thistle, Spiny-leaved: *Sonchus asper*
 Sow-thistle: *Sonchus sp.*
 Spanish-bayonet: *Yucca aloifolia*
 Spanish-moss: *Tillandsia usneoides*
 Spanish-needles: *Bidens bipinnata*
 Sparkleberry: *Vaccinium arboreum*
 Sparrow, Bachman's: *Aimophila aestivalis*
 Sparrow, Chipping: *Spizella passerina*
 Sparrow, Field: *Spizella pusilla*
 Sparrow, Savannah: *Passerculus sandwichensis*
 Sparrow, Sharp-tailed: *Ammodramus caudatus*
 Sparrow, Song: *Melospiza melodia*
 Sparrow, Swamp: *Melospiza georgiana*
 Sparrow, White-crowned: *Zonotrichia leucophrys*
 Sparrow, White-throated: *Zonotrichia albicollis*
 Spatterdock: *Nuphar luteum*
 Speedwell, Corn: *Veronica arvensis*
 Spicebush, Southern: *Lindera melissaeifolium*
 Spicebush, Swallowtail: *Papilio troilus*
 Spicebush: *Lindera benzoin*
 Spider, Arrowhead: *Verrucosa arenata*
 Spider, Banded Garden: *Argiope trifasciata*
 Spider, Basilica: *Mecynogea lemniscata*
 Spider, Bowl-and-dolly: *Frontinella pyramitella*, *Frontinella sp.*
 Spider, Brownish-gray Fishing: *Dolomedes tenebrosus*
 Spider, Carolina Wolf: *Lycosa carolinensis*
 Spider, Crab: *Misumena sp.*, *Misumenops asperatus*, *Xysticus sp.*
 Spider, Elegant Crab: *Xysticus elegans*
 Spider, Filmy Dome: *Prolimnobia marginata*
 Spider, Fishing: *Dolomedes sp.*
 Spider, Forest Wolf: *Lycosa gulosa*
 Spider, Funnel-web: *Agelenopsis naevia*
 Spider, Goldenrod: *Misumena vatia*
 Spider, Golden-silk: *Nephila clavipes*
 Spider, Grass: *Agelenopsis sp.*
 Spider, Green Lynx: *Psecutia viridans*
 Spider, Jumping (large): *Phidippus pulcher*
 Spider, Jumping (small): *Metaphidippus galathea*
 Spider, Jumping: *Hentzia sp.*
 Spider, Jumping: *Menemerus bivittatus*, *Metaphidippus sp.*, *Phidippus cardinalis*
 Spider, Nursery-web: *Pisaurina mira*, *Pisaurina sp.*
 Spider, Orchard: *Leucauge venusta*
 Spider, Purse-web: *Sphodros bicolor*
 Spider, Rabid Wolf: *Lycosa rabida*
 Spider, Ray: *Theridiosoma radiosa*
 Spider, Six-spotted Fishing: *Dolomedes triton*
 Spider, Spiny-backed: *Micrathena gracilis*
 Spider, Wolf: *Lycosa sp.*, *Pardosa sp.*
 Spider, Writing: *Argiope aurantia*, *Argiope sp.*,
 Spider, Yellow Crab: *Misumenoides formosipes*
 Spider-lily: *Hymenocallis occidentalis*
 Spiderwort, Asian: *Anellema keisak*
 Spiderwort: *Tradescantia hirsuticaulis*, *Tradescantia subaspera*, *Tradescantia virginiana*, *Tradescantia sp.*
 Spikemoss, Meadow: *Selaginella apoda*
 Spikemoss, Rock: *Selaginella rupestris*
 Spikemoss, Sand: *Selaginella arenicola*
 Spikemoss, Twisted-hair: *Selaginella tortipila*
 Spikenard: *Aralia racemosa*
 Spike-rush, Proliferating: *Eleocharis sp.*
 Spike-rush: *Eleocharis equisetoides*, *Eleocharis obtusa*, *Eleocharis tuberculosa*
 Spiketail, Delta-spotted: *Cordulegaster diastatops*
 Spilanthus: *Spilanthus americana repens*
 Spiny-back, Arrow-shaped: *Micrathena sagittata*
 Spiny-back, Crab-shaped: *Gasteracantha cancriformis*
 Spinyleg, Black-shouldered: *Dromogomphus spinosus*
 Spinyleg, Southeastern: *Dromogomphus armatus*
 Spittlebug: *Prosapia sp.*, *Philaenus sp.*
 Splash-cups: *Cyathus striatus*
 Spleenwort, Blackstem: *Asplenium resiliens*
 Spleenwort, Bradley's: *Asplenium bradleyi*
 Spleenwort, Ebony: *Asplenium platyneuron*
 Spleenwort, Mountain: *Asplenium montanum*
 Spleenwort, Silvery: *Athyrium thelypteroides*
 Spleenwort: *Asplenium sp.*
 Spreading-pogonia: *Cleistes divaricata*
 Spreadingwing, Swamp (damselfly): *Lestes vigilax*
 Spring-beauty: *Claytonia caroliniana*, *Claytonia virginica*
 Spruce, Norway: *Picea abies*
 Spruce, Red: *Picea rubens*
 Spurge, Flowering: *Euphorbia corollata*
 Spurge, Prostrate: *Euphorbia supina*
 Spurge, Spotted: *Euphorbia maculata*
 Spurge: *Euphorbia curtisii*, *Euphorbia ammannioides*, *Euphorbia polygonifolia*, *Euphorbia sp.*
 Squaw-huckleberry: *Vaccinium stamineum*
 Squaw-huckleberry: *Vaccinium stamineum stamineum*
 Squaw-root: *Conopholis americana*
 Squid: *Loligo sp.*
 Squirrel, Eastern Fox: *Sciurus niger*

- Squirrel, Gray: *Sciurus carolinensis*
 Squirrel, Red: *Tamiasciurus hudsonicus*
 St.-Andrew's-cross: *Hypericum hypericoides*, *Hypericum stragulum*,
 St.-John's-wort: *Hypericum densiflorum*, *Hypericum fasciculatum*, *Hypericum gymnanthum*, *Hypericum lloydii*, *Hypericum mutilum*, *Hypericum punctatum*, *Hypericum virginicum*, *Hypericum walteri*,
 St.-Peter's-wort: *Hypericum stans*
 Stachys: *Stachys* sp.
 Staggerbush: *Lyonia ferruginea*, *Lyonia mariana*
 Stain, Green: *Chlorociboria aeruginascens*
 Standing-cypress: *Ipomopsis rubra*
 Star-grass, Yellow: *Hypoxis hirsuta*, *Hypoxis micrantha*, *Hypoxis rigida*, *Hypoxis* sp.
 Starling, European: *Sturnus vulgaris*
 Starwort, Water: *Callitriche deflexa*, *Callitriche heterophylla*
 Stingray (barb, dental plate): *Dasyatis* sp., *Myliobatis* sp.
 Stinkhorn, Columned: *Clathrus columnatus*
 Stinkhorn, Dog: *Mutinus caninus*
 Stinkhorn, Elegant: *Mutinus elegans*
 Stonecrop, Vernal Pool: *Sedum smallii*
 Stonecrop: *Sedum pusillum*, *Sedum ternatum*
 Stonely, Common: *Acroneuria internata*, *Paragnetina immarginata*
 Stonely: *Isoptera bilineata*, *Phasganophora capitata*
 Stoneseed: *Lithospermum tuberosum*
 Storax: *Styrax americana*
 Stork, Wood: *Mycteria americana*
 Strawberry, Barten: *Waldsteinia fragarioides*
 Strawberry, Indian: *Duchesnea indica*
 Strawberry, Wild: *Fragaria virginiana*
 Strawberry-bush: *Euonymus* sp.
 Styrax: *Styrax* sp.
 Sugarberry: *Celtis laevigata*
 Suillus, Chicken-fat: *Suillus americanus*
 Suillus, Dotted-stalk: *Suillus granulatus*
 Suillus, Painted: *Suillus pictus*
 Sulphur, Clouded: *Colias philodice*
 Sulphur, Cloudless: *Phoebis sennae eubule*
 Sulphur, Orange: *Colias eurytheme*
 Sumac, False Poison: *Rhus michauxii*
 Sumac, Fragrant: *Rhus aromatica*
 Sumac, Poison: *Rhus vernix*
 Sumac, Smooth: *Rhus glabra*
 Sumac, Staghorn: *Rhus typhina*
 Sumac, Winged: *Rhus copallina*
 Summer-farewell: *Petalostemum pinnatum*
 Sun-bonnets: *Chaptalia tomentosa*
 Sundew: *Drosera capillaris*, *Drosera intermedia*, *Drosera leucantha*, *Drosera* sp.
 Sundrops: *Oenothera fruticosa*
 Sunflower, Hairy Wood: *Helianthus atrorubens*
 Sunflower, Hairy: *Helianthus tomentosus*
 Sunflower: *Helianthus angustifolius*, *Helianthus microcephalus*, *Helianthus* sp.
 Supple-jack: *Berchemia scandens*
 Swallow, Bank: *Riparia riparia*
 Swallow, Barn: *Hirundo rustica*
 Swallow, Northern Rough-winged: *Stelgidopteryx serripennis*
 Swallow, Tree: *Tachycineta bicolor*
 Swallowtail, Black: *Papilio polyxenes asterius*
 Swallowtail, Eastern Tiger: *Papilio glaucus*
 Swallowtail, Giant: *Papilio cresphontes*
 Swallowtail, Palamedes: *Papilio palamedes*
 Swallowtail, Pipevine: *Battus philenor*
 Swallowtail, Zebra: *Eurytides marcellus*
 Swamp-beacon: *Mitula paludosa*
 Swan, Tundra: *Cygnus columbianus*
 Sweetbay: *Magnolia virginiana*
 Sweet-gum: *Liquidambar styraciflua*
 Sweet-shrub: *Calycanthus floridus*
 Swift, Chimney: *Chaetura pelagica*
 Swordgrass: *Scirpus americanus*
 Sycamore, American: *Platanus occidentalis*
 Tagelus: *Tagelus gibbus*
 Tailed-blue, Eastern (butterfly): *Evers comyntas*
 Tallow-tree, Chinese: *Sapium sebiferum*
 Tamarisk: *Tamarix gallica*
 Tanager, Scarlet: *Piranga olivacea*
 Tanager, Summer: *Piranga rubra*
 Tansy: *Tanacetum vulgare*
 Tarweed: *Acalypha rhomboidea*
 Teal, Blue-winged: *Anas discors*
 Teal, Green-winged: *Anas crecca*
 Tearthumb: *Polygonum arifolium*, *Polygonum sagittatum*
 Teesdalia: *Teesdalia nudicaulis*
 Tephrosia: *Tephrosia hispida*, *Tephrosia spicata*, *Tephrosia* sp.
 Tern, Caspian: *Sterna caspia*
 Tern, Forster's: *Sterna forsteri*
 Tern, Royal: *Sterna maxima*
 Terrapin, Diamondback: *Malaclemys terrapin*
 Thelypteris (fern): *Thelypteris kunthii*
 Thimble-cap, Wrinkled: *Verpa bohemica*
 Thimbleweed: *Anemone virginiana*
 Thistle, Bull: *Carduus pumilus*
 Thistle: *Carduus lanceolatus*, *Carduus repandus*, *Carduus spinosissimus*, *Carduus* sp.
 Thoroughwort: *Eupatorium album*, *Eupatorium dubium*, *Eupatorium leucolepis*
 Thrasher, Brown: *Toxostoma rufum*
 Thrush, Hermit: *Catharus guttatus*
 Thrush, Wood: *Hylocichla ustellina*
 Tick, Lone Star: *Amblyomma americanum*
 Tick-trefoil, Naked-flower: *Desmodium nudiflorum*
 Tie-vine: *Jacquemontia tamnifolia*

- Titi: *Cyrilla racemiflora*
 Titmouse, Tufted: *Parus bicolor*
 Toad, American: *Bufo americanus*
 Toad, Eastern Narrowmouth: *Gastrophryne carolinensis*
 Toad, Fowler's: *Bufo woodhousei*
 Toad, Oak: *Bufo quercicus*
 Toad, Southern: *Bufo terrestris*
 Toad: *Bufo* sp.
 Toadflax: *Linaria canadensis*, *Linaria* sp.
 Tooth, Bearded: *Hericum erinaceus*
 Tooth, Bear's-head: *Hericum coralloides*
 Tooth, Fish: *Enchodus ferox*
 Tooth, Ochre Spreading: *Steccherinum ochraceum*
 Tooth, Scaly: *Hydnum imbricatum*
 Tooth, Sweet: *Dentinum repandum*
 Toothwort: *Cardamine angustata angustata*, *Cardamine concatenata*, *Cardamine diphylla*, *Cardamine* sp.
 Tortoise, Gopher: *Gopherus polyphemus*
 Touch-me-not, Spotted: *Impatiens capensis*
 Towhee, Rufous-sided: *Pipilo erythrophthalmus*
 Tragia: *Tragia urens*, *Tragia urticifolia*, *Tragia* sp.
 Trailing-arbutus: *Epigaea repens*
 Train-wrecker: *Lentinus lepideus*
 Trash-bug: *Hemerobiidae* Family
 Tread-softly: *Cnidocolus stimulosus*
 Tree-ear: *Auricularia auricula*, *Auricularia* sp.
 Treefrog, Cope's Gray (call): *Hyla chrysoscelis*
 Treefrog, Gray (call): *Hyla versicolor*
 Treefrog, Gray: *Hyla versicolor*
 Treefrog, Green: *Hyla cinerea*
 Treefrog, Pine Woods: *Hyla femoralis*
 Treefrog, Squirrel: *Hyla squirella*
 Treefrog, Cope's Gray: *Hyla chrysoscelis*
 Treefrog: *Hyla* sp.
 Treehopper, Locust: *Thelia bimaculata*
 Tree-of-heaven: *Ailanthus altissima*
 Trepocarpus: *Trepocarpus aethusae*
 Trillium, Catesby's: *Trillium catesbaei*
 Trillium, Great White: *Trillium grandiflorum*
 Trillium, Nodding: *Trillium cernuum*
 Trillium, Painted: *Trillium undulatum*
 Trillium, Vasey's: *Trillium vaseyi*
 Trillium: *Trillium discolor*, *Trillium lanceolatum*, *Trillium* sp.
 Trout, Brook: *Salvelinus fontinalis*
 Tubeworm, Shingle: *Owenia fusiformis*
 Tuft, Sulfur (mushroom): *Naematoloma fasciculare*
 Tulip, Banded (snail): *Fasciolaria hunteria*
 Tulip-poplar: *Liriodendron tulipifera*
 Tumblebug, Common: *Canthon laevis*
 Tumblebug: *Canthon chalcites*, *Glyphyrocantion viridis*
 Tupelo, Black: *Nyssa sylvatica sylvatica*
 Tupelo, Swamp: *Nyssa sylvatica biflora*
 Tupelo, Water: *Nyssa aquatica*
 Turkey, Wild: *Meleagris gallopavo*
 Turkey-tail, False: *Stereum ostrea*
 Turkey-tail: *Trametes versicolor*
 Turkey-wing (shell): *Arca zebra*
 Turnstone, Ruddy: *Arenaria interpres*
 Turtle, Eastern Box: *Terrapene carolina*
 Turtle, Eastern Mud: *Kinosternon subrubrum*
 Turtle, Eastern Musk: *Sternotherus odoratus*
 Turtle, Loggerhead Sea: *Caretta caretta*
 Turtle, Painted: *Chrysemys picta*
 Turtle, Pond (shell fragment): *Emydidae* Family
 Turtle, Snapping: *Chelydra serpentina*
 Turtle, Soft-shelled (fragment): *Trionyx* sp.
 Turtle, Spotted: *Clemmys guttata*
 Turtleheads: *Chelone obliqua*
 Twayblade, Southern: *Listera australis*
 Umbrella-grass: *Fuirena squarrosa*
 Umbrella-leaf: *Diphylleia cymosa*
 Umbrella-tree: *Magnolia fraseri*, *Magnolia tripetala*
 Urchin, Brown Rock: *Arbacia punctulata*
 Urchin, Five-holed Keyhole: *Mellita quinquesperforata*
 Vanilla-plant: *Trilisa odoratissima*
 Vanilla-plant: *Trilisa* sp.
 Veery: *Catharus fuscescens*
 Velvet-ant, Common Eastern: *Dasyutilla occidentalis*
 Velvet-ant: *Dasyutilla asopus bexar*, *Dasyutilla* sp.
 Venus, Cross-barred (shell): *Chione cancellata*
 Venus, Cross-barred: *Chione eribraria*
 Venus'-fly-trap: *Dionaea muscipula*
 Venus'-looking-glass, Small: *Specularia biflora*
 Venus'-looking-glass: *Specularia perfoliata*, *Specularia* sp.
 Verbena: *Verbena scabra*, *Verbena* sp.
 Verbesina: *Verbesina alternifolia*, *Verbesina occidentalis*, *Verbesina virginica virginica*, *Verbesina* sp.
 Veronica: *Veronica officinalis*, *Veronica* sp.
 Vervain, Brazilian: *Verbena brasiliensis*
 Vervain, White: *Verbena urticifolia*
 Vetch, Wood: *Vicia caroliniana*
 Vetch: *Vicia hugeri*, *Vicia* sp.
 Viburnum, Maple-leaf: *Viburnum acerifolium*
 Viburnum, Possunhaw: *Viburnum nudum*
 Viburnum, Small-leaf: *Viburnum obovatum*
 Viburnum: *Viburnum* sp.
 Viceroy: *Limenitis archippus*
 Vine, Cross: *Anisostichus capreolata*
 Vine, Trumpet: *Campsis radicans*
 Violet(s): *Viola affinis*, *Viola eriocarpa leiocarpa*, *Viola septemloba*, *Viola tripartita tripartita*, *Viola walteri*, *Viola* sp., *Viola* spp.
 Violet, Bird-foot: *Viola pedata*
 Violet, Bog White: *Viola lanceolata*
 Violet, Canada: *Viola canadensis*
 Violet, Common Blue: *Viola papilionacea*
 Violet, Green: *Hybanthus concolor*

- Violet, Halberd-leaved: *Viola hastata*
 Violet, Long-spurred: *Viola rostrata*
 Violet, Primrose-leaved: *Viola primulifolia*
 Violet, Round-leaved Yellow: *Viola rotundifolia*
 Violet, Sweet White: *Viola blanda*
 Violet, Wood: *Viola palmata triloba*
 Vireo, Red-Eyed: *Vireo olivaceus*
 Vireo, Solitary: *Vireo solitarius*
 Vireo, White-eyed: *Vireo griseus*
 Vireo, Yellow-throated: *Vireo flavifrons*
 Virginia-creeper: *Parthenocissus quinquefolia*
 Virginia-willow: *Itea virginica*
 Virgin's-bower: *Clematis virginiana*
 Volute: *Volutifusus typus*
 Vulture, Black: *Coragyps atratus*
 Vulture, Turkey: *Cathartes aura*
 Wafer-ash: *Ptelea trifoliata*
 Wahlenbergia: *Wahlenbergia marginata*
 Wake-robin: *Trillium erectum*, *Trillium erectum vaseyi*
 Walkingstick: *Diaperomera carolina*, *Diaperomera femorata*, *Diaperomera sp.*
 Walnut, Black: *Juglans nigra*
 Wapato: *Sagittaria latifolia pubescens*
 Warbler, Bay-breasted: *Dendroica castanea*
 Warbler, Black-and-white: *Mniotilta varia*
 Warbler, Blackburnian: *Dendroica fusca*
 Warbler, Blackpoll: *Dendroica striata*
 Warbler, Black-throated Blue: *Dendroica caerulescens*
 Warbler, Black-throated Green: *Dendroica virens*
 Warbler, Canada: *Wilsonia canadensis*
 Warbler, Cape May: *Dendroica tigrina*
 Warbler, Chestnut-sided: *Dendroica pensylvanica*
 Warbler, Hooded: *Wilsonia citrina*
 Warbler, Kentucky: *Oporornis formosus*
 Warbler, Magnolia: *Dendroica magnolia*
 Warbler, Palm: *Dendroica palmarum*
 Warbler, Pine: *Dendroica pinus*
 Warbler, Prairie: *Dendroica discolor*
 Warbler, Prothonotary: *Protonotaria citrea*
 Warbler, Swainson's: *Limnolophus swainsonii*
 Warbler, Tennessee: *Vermivora peregrina*
 Warbler, Worm-eating: *Helmitheros vermivorus*
 Warbler, Yellow: *Dendroica petechia*
 Warbler, Yellow-rumped: *Dendroica coronata*
 Warbler, Yellow-throated: *Dendroica dominica*
 Wasp, June-beetle: *Pelecinus polyturator*
 Wasp, Paper (nest): *Polistes sp.*
 Wasp, Paper: *Polistes sp.*
 Wasp, Pipe-organ: *Trypoxylon politum*
 Wasp, Potter: *Eumenes fraternus*
 Wasp, Thread-waisted: *Ammophila sp.*
 Water-elm: *Planera aquatica*
 Water-hyacinth: *Eichhornia crassipes*
 Water-hyssop, Blue: *Bacopa caroliniana*
 Water-hyssop, Smooth: *Bacopa monnieri*
 Water-hyssop: *Bacopa sp.*
 Waterleaf: *Hydrophyllum canadense*
 Water-lily: *Nymphaea odorata*
 Water-meal: *Wolffia papulifera*, *Wolffia sp.*
 Water-milloil: *Myriophyllum brasiliense*, *Myriophyllum heterophyllum*, *Myriophyllum pinnatum*, *Myriophyllum sp.*
 Water-plantain, Creeping: *Echinodorus cordifolius*
 Water-plantain: *Alisma subcordatum*
 Water-primrose: *Ludwigia uruguayensis*
 Water-scorpion, Brown: *Ranatra fusca*
 Water-scorpion: *Ranatra americana*, *Ranatra sp.*
 Water-shield: *Brasenia schreberi*
 Water-spider: *Orchid Habenaria repens*
 Water-strider, Large: *Gerris remigis*
 Water-strider: *Gerris sp.*
 Waterthrush, Louisiana: *Seiurus motacilla*
 Water-weed: *Elodea sp.*
 Water-willow: *Justicia ovata*, *Ludwigia decurrens*
 Wax-myrtle, Dwarf: *Myrica cerifera pumila*
 Wax-myrtle: *Myrica cerifera*, *Myrica cerifera cerifera*
 Waxweed: *Cuphea carthagensis*
 Waxwing Cedar: *Bombycilla cedrorum*
 Waxy-cap (mushroom): *Hygrocybe punicea*
 Waxy-cap, Chanterelle: *Hygrophorus cantharellus*
 Waxy-cap, Fading Scarlet: *Hygrophorus miniatus*
 Waxy-cap, Salmon: *Hygrophorus pratensis*
 Waxy-cap, Scarlet: *Hygrophorus coccineus*
 Weevil, Acorn: *Curculio sp.*
 Weevil, Babbler: *Apion rostrum*
 Weevil, Broad-nosed: *Aphrastus sp.*, *Nemocestes sp.*, *Phyllobius sp.*
 Weevil, Bud: *Rhynchites geneus*
 Weevil, Cocklebur: *Rhodobaenus tredecimpunctatus*
 Weevil, Corn Pith: *Centrinaspis penicellus*
 Weevil, Flower: *Aulobaris ibis*, *Baris aerea*, *Centrinaspis griseus*, *Centrinaspis perscillus*, *Centrinaspis sp.*, *Centrinites sp.*, *Glyptobaris lecontei*, *Limnobaris denudata*, *Limnobaris proluxa*, *Odontocorynus pinguis*, *Odontocorynus pulverulentus*, *Odontocorynus scutellum-album*, *Pseudobaris nigra*
 Weevil, Fruit: *Anthonomus lectus*, *Anthonomus sp.*
 Weevil, Fungus: *Euparius marmoreus*
 Weevil, Grain: *Sphenophorus sp.*
 Weevil, Gray-sided Oak: *Pandeleteius hiliaris*
 Weevil, Hibiscus Seed: *Altiaeus hibisci*
 Weevil, Hidden Snout: *Conotrachelus posticatus*
 Weevil, Leaf-mining: *Eugnamptus collaris collaris*
 Weevil, Minute Seed: *Aleutes tachygnoides*, *Ceutorhynchus sp.*, *Perigaster sp.*
 Weevil, Pea & Bean: *Meibomeus musculus*
 Weevil, Pear-shaped: *Apion crassum*, *Apion decoloratum*, *Apion emaciatipes*, *Apion sp.*

- Weevil, Potato Bud: *Anthonomus nigrinus*
 Weevil, Primitive: *Arrhenodorus minutus*
 Weevil, Short-snouted: *Pandeleteius sp.*
 Wentletrap (snail): *Epiteneum sp.*
 Whelk (egg case): *Busycon sp.*
 Whelk, Channeled: *Busycon canaliculatum*
 Whelk, Knobbed: *Busycon carica*
 Whelk, Lightning: *Busycon contrarium*
 Whelk: *Busycon carica amoena*, *Busycon maximum*,
Busycon spiratus
 Whip-poor-will: *Caprimulgus vociferus*
 Whiskfern: *Psilotum nudum*
 White, Cabbage (butterfly): *Pieris rapae*
 White-cedar, Atlantic: *Chamaecyparis thyoides*
 White-featherling: *Toxofieldia glabra*
 Whitetail, Common (dragonfly): *Libellula lydia*
 Whitlow-wort: *Paronychia herniarioides*
 Widow, Black: *Latrodectus mactans*
 Widow, Northern: *Latrodectus variolus*
 Wigeon, American: *Anas americana*
 Wildcat: *Felis rufus*
 Wild-raisin: *Viburnum cassinoides*
 Willet: *Catoptrophorus semipalmatus*
 Willow, Black: *Salix nigra*
 Willow, Swamp: *Salix caroliniana*
 Willow: *Salix humilis*, *Salix sp.*
 Willow-herb, Bronze: *Epilobium coloratum*
 Windflower: *Anemone lancifolia*, *Anemone quinquefolia*,
Anemone sp., *Thalictrum thalictroides*,
 Wineberry: *Rubus phoenicolasius*
 Wingstem: *Leersia lenticularis*
 Wing-stem: *Verbesina virginica*
 Winterberry: *Ilex verticillata*
 Wintergreen, Spotted: *Chimaphila maculata*
 Wintergreen: *Gaultheria procumbens*
 Wire-plant: *Stipulicida setacea*
 Wisteria, American: *Wisteria frutescens*
 Wisteria, Chinese: *Wisteria sinensis*
 Witch-alder: *Fothergilla gardenii*, *Fothergilla major*
 Witches'-butter: *Tremella mesenterica*
 Witch-hazel: *Hamamelis virginiana*
 Wolf, Red: *Canis rufus*
 Woodchuck: *Marmota monax*
 Woodcock, American: *Scolopax minor*
 Wood-lily, Speckled: *Clintonia umbellulata*
 Wood-nettle: *Laportea canadensis*
 Wood-nymph, Common (butterfly): *Cercyonis pegala*,
Cercyonis pegala pegala
 Woodpecker, Downy: *Picoides pubescens*
 Woodpecker, Hairy: *Picoides villosus*
 Woodpecker, Pileated: *Dryocopus pileatus*
 Woodpecker, Red-bellied: *Melanerpes carolinus*
 Woodpecker, Red-cockaded: *Picoides borealis*
 Woodpecker, Red-headed: *Melanerpes erythrocephalus*
 Wood-pewee, Eastern: *Contopus virens*
 Woodrush: *Luzula acuminata*, *Luzula echinata*, *Luzula sp.*
 Wood-satyr, Little (butterfly): *Megisto cymela*
 Woodsia, Blunt-lobed: *Woodsia obtusa*
 Wood-sorrel, Common: *Oxalis acetosella*
 Wood-sorrel, Violet: *Oxalis violacea*
 Wood-sorrel: *Oxalis dillenii*, *Oxalis florida*, *Oxalis grandis*,
Oxalis sp.
 Wool-grass: *Scirpus cyperinus*
 Worm, Roofing: *Owenia fusiformis*
 Wren, Carolina: *Thryothorus ludovicianus*
 Wren, House: *Troglodytes aedon*
 Wren, Marsh: *Cistothorus palustris*
 Yam, Wild: *Dioscorea villosa*, *Dioscorea villosa villosa*,
Dioscorea sp.
 Yarrow: *Achillea millefolium*
 Yaupon: *Ilex vomitoria*
 Yellow, Little (butterfly): *Eurema lisa*
 Yellow-eyed-grass: *Xyris caroliniana*, *Xyris flabelliformis*,
Xyris sp.
 Yellowjacket, Eastern: *Vespula maculifrons*
 Yellowjacket: *Vespa sp.*, *Vespula sp.*
 Yellowlegs, Greater: *Tringa melanoleuca*
 Yellowlegs, Lesser: *Tringa flavipes*
 Yellow-patches: *Amanita flavoconia*
 Yellowroot: *Xanthorrhiza simplicissima*
 Yellowthroat: *Geothlypis trichas*
 Yellowwood: *Cladrastis lutea*
 Yucca, Mound-lily: *Yucca gloriosa*
 Yucca, Spoonleaf: *Yucca filamentosa filamentosa*
 Yucca: *Yucca sp.*
 Zebra (butterfly): *Heliconius charitonius tuckeri*
 Zigadenus: *Zigadenus glaberrimus*
 Zonite, Copper Great (snail): *Mesomphix cupreus*
 Zonite, Great Common (snail): *Mesomphix vulgatus*
 Zornia: *Zornia bracteata*

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkley	Charleston	Cherokee	Chesler	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Aceris griffithii</i>	•				•		•				•		•										•			•															•		•			
<i>Aceris sp.</i>							•				•																															•		•		
<i>Acronetia internata</i>																											•								•											
<i>Acronicta sp.</i>																											•									•										
<i>Acrosternum bilare</i>																																									•					
<i>Actara pachypoda</i>																																			•											
<i>Actias luna</i>	•							•			•													•											•		•									
<i>Actitis macularia</i>	•													•																					•											
<i>Acronotus piceus</i>																												•																		
<i>Achyrocline sp.</i>	•																																													
<i>Adela purpurea</i>																																														
<i>Adiantum podatum</i>																											•	•	•						•	•	•								•	
<i>Aedes infirmatus</i>								•										•																												
<i>Aedes sollicitans</i>								•										•																												
<i>Aedes triseriatus</i>								•																																						
<i>Aegopodium podagraria</i>								•																																						
<i>Aesculus octandra</i>																							•																							
<i>Aesculus parviflora</i>	•																																													
<i>Aesculus parva</i>	•	•					•	•			•						•				•						•									•						•				
<i>Aesculus sp.</i>	•										•																																		•	
<i>Aesculus sylvatica</i>	•										•																•	•						•			•									
<i>Agabites aculeatus</i>																	•																													
<i>Agabus johannis</i>						•																																								
<i>Agabus punctatus</i>						•																																						•		
<i>Agalinis linifolia</i>																																	•													
<i>Agalinis purpurea</i>												•	•																				•													
<i>Agalinis setacea</i>																										•																				
<i>Agalinis sp.</i>	•										•										•																		•	•						
<i>Agalinis tenella</i>						•																																								
<i>Agalinis tenuifolia</i>																						•					•																			
<i>Agalinis virgata</i>															•																															
<i>Agaricus campestris</i>						•																•						•													•					
<i>Agastis leucophylla</i>													•																																	
<i>Agave virginica</i>	•																																									•				
<i>Agabus phoeniceus</i>						•	•	•	•		•		•					•		•	•	•					•	•	•									•							•	
<i>Agelenopsis navalis</i>																																														
<i>Aglathodes consociatus</i>	•										•																																			
<i>Aglathodes pictus</i>	•																																													
<i>Agonoderus lecontei</i>																																														
<i>Agonoderus sp.</i>																																														
<i>Agaveum errans</i>																																														
<i>Agaveum extensile</i>																																														

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Charlton	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Henry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marion	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Agrostis ferrea</i>																																												
<i>Agrostis moerens</i>																																												
<i>Agrostis</i> sp.																																												
<i>Agralinia vanillae</i>																																												
<i>Agrostis polyantha</i>																																												
<i>Agrostis</i> sp.																																												
<i>Agrostis grypsopala</i>																																												
<i>Agrostis parviflora</i>																																												
<i>Agrostis pubescens microcarpa</i>	☼	☼																																										
<i>Agrostis</i> sp.																																												
<i>Agrostis</i> sp.																																												
<i>Agrostis cingulata</i>																																												
<i>Alaethus altissima</i>																																												
<i>Alaethus arvensis</i>																																												
<i>Alaethus elegans</i>																																												
<i>Alaethus sp.</i>																																												
<i>Alaethus myosotis</i>																																												
<i>Alaethus ocellatus</i>																																												
<i>Albida jaltirion</i>																																												
<i>Acyonidium hauffi</i>																																												
<i>Alaethus</i> sp.	☼																																											
<i>Alaethus aerea</i>																																												
<i>Alaethus furiosa</i>																																												
<i>Alaethus oakesii</i>																																												
<i>Alaethus tachygenoides</i>																																												
<i>Alaethus subcordatum</i>																																												
<i>Alaethus mississippiensis</i>	☼																																											
<i>Alaethus bivalve</i>																																												
<i>Alaethus canadense</i>																																												
<i>Alaethus vinale</i>																																												
<i>Alaethus lutea</i>																																												
<i>Alaethus serrata</i>	☼	☼																																										
<i>Alaethus pennsylvanica</i>																																												
<i>Alaethus caroliniana</i>																																												
<i>Alaethus phillyroides</i>																																												
<i>Alaethus biblici</i>																																												
<i>Alaethus chalybea</i>																																												
<i>Alaethus marevagan</i>																																												
<i>Alaethus</i> sp.																																												
<i>Alaethus viridana</i>																																												
<i>Alaethus carinus</i>																																												
<i>Alaethus octomaculata</i>																																												

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Alberville	Alkon	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Argia sedula</i>											*																																	
<i>Argia sp.</i>																																		*										
<i>Argiope Family</i>		*																																										
<i>Argiope aurantia</i>	*	*					*				*											*			*	*						*	*	*	*	*								
<i>Argiope sp.</i>																								*																				
<i>Argiope trifasciata</i>																								*																				
<i>Argopetes ebrosus</i>																																												*
<i>Argopetes vicinarius</i>																								*																				
<i>Arilus cristatus</i>								*			*			*																				*					*	*		*		
<i>Arietes sp.</i>														*																														
<i>Arisaema dracontium</i>																						*	*											*	*	*	*	*	*	*	*	*	*	
<i>Arisaema triphyllum</i>					*	*					*								*	*		*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Aristida sp.</i>												*												*	*													*						*
<i>Aristida stricta</i>												*												*																	*			
<i>Aristida tuberculosa</i>		*																																										
<i>Aristonotia macrophylla</i>																																				*								*
<i>Aristonotia serpentina</i>	*	*													*												*						*	*	*	*	*	*	*	*	*	*	*	*
<i>Armiliaria mellea</i>																											*									*	*	*	*	*	*	*	*	*
<i>Armiliaria tabascana</i>																												*													*			
<i>Arnica acutula</i>																									*	*										*								
<i>Arphia sp.</i>																											*																	
<i>Arphia sulphurea</i>																											*																	*
<i>Arphia xanthoptera</i>		*																																										*
<i>Arthodes minutus</i>								*																																				
<i>Arthonia quintaria</i>													*						*																									
<i>Arthonia reniformis</i>													*																															
<i>Arthonia rubella</i>											*																																	
<i>Arthonia sp.</i>																																	*	*	*	*	*	*	*	*	*	*	*	*
<i>Arthropia laponia</i>																									*									*	*	*	*	*	*	*	*	*		
<i>Arthrothelium interveniens</i>						*	*																																					
<i>Arthrothelium sp.</i>						*																						*																
<i>Arthrothelium taceosum</i>						*																																						
<i>Arthromacra sena</i>																											*										*							*
<i>Arundo dioica</i>																																												*
<i>Arundinaria gigantea</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Arundo donax</i>			*					*	*																																			
<i>Asarum canadense</i>								*													*						*	*				*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Asclepias amplexicaulis</i>																																				*								
<i>Asclepias exaltata</i>																																												*
<i>Asclepias humistrata</i>	*							*					*												*																			
<i>Asclepias longifolia</i>																											*																	
<i>Asclepias micranthi</i>																								*																				

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Ashville	Alben	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Charleston	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Aster tenuifolius</i>							*		*											*																									
<i>Aster terrefolius</i>															*																														
<i>Aster undulatus</i>																				*							*																		
<i>Asteroscampa celis</i>		*									*											*						*	*								*								
<i>Asteroscampa chyton</i>																																					*								
<i>Astilbe bifurcata</i>																																												*	
<i>Astragalus trigonometricus</i>																			*				*					*	*				*					*						*	
<i>Astragalus densae</i>								*																																					
<i>Atanais elegans</i>													*																																
<i>Atanais sp.</i>				*																														*											
<i>Atrachon histioides</i>		*																																					*	*					
<i>Atrachon sp.</i>																											*																		
<i>Athysa flavula</i>		*																																											
<i>Athysa pennsylvanica</i>		*																																											
<i>Athysa sp.</i>																									*																				
<i>Athysa rufifrons</i>																																					*								
<i>Athysa asplenoides</i>	*	*		*	*								*	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Athyrium filix-femina</i>																																													
<i>Athyrium thelypteroides</i>																																												*	
<i>Atlantica gibbosa</i>		*																																											
<i>Atlantica sp.</i>																																					*								
<i>Atlantica testaceus</i>																																			*										
<i>Atrina rigida</i>									*																																				
<i>Atrina seminata</i>									*																																				
<i>Atrina sp.</i>									*																																				
<i>Atriplex arenaria</i>							*	*												*																									
<i>Atriplex patula</i>							*	*																																					
<i>Attalus circumscriptus</i>												*																																	
<i>Attalus sciocetus</i>												*																						*											
<i>Attalus sp.</i>																																												*	
<i>Attea punctata</i>											*																																		
<i>Autobaris ibis</i>		*																										*																	
<i>Auricularia flexa</i>																																												*	
<i>Auricularia pectinata</i>	*																												*					*											
<i>Auricularia pedicularia</i>																																				*									
<i>Auricularia sp.</i>							*	*		*											*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Auricularia virginica</i>	*	*										*							*																		*	*	*	*	*	*	*	*	*
<i>Auricularia auricula</i>		*		*																							*						*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Auricularia sp.</i>				*			*																				*						*	*	*	*	*	*	*	*	*	*	*	*	
<i>Austroboletus betula</i>																					*													*	*	*	*	*	*	*	*	*	*	*	
<i>Austroboletus gracilis</i>																																		*	*	*	*	*	*	*	*	*	*	*	
<i>Automeris la</i>												*																						*	*	*	*	*	*	*	*	*	*	*	

SCAN: The Second Ten Years

	Abbeville	Alben	Albion	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Charoche	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Laurens	Lee	Lexington	Marion	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina				
<i>Arthya affinis</i>									•															•																					
<i>Arthya collaris</i>									•					•						•				•																					
<i>Arthya muria</i>									•																																				
<i>Arthya valisneria</i>														•											•																				
<i>Azolla caroliniana</i>								•	•					•			•			•									•					•											
<i>Baccharis angustifolia</i>								•	•															•																					
<i>Baccharis glomeruliflora</i>								•												•																									
<i>Baccharis halimifolia</i>							•	•	•	•		•	•	•	•	•	•			•			•	•	•		•	•									•								
<i>Bacidia abductans</i>																				•						•																			
<i>Bacidia aequalis</i>							•																																						
<i>Bacidia atropurpurea</i>																				•																									
<i>Bacidia chlorantha</i>															•												•																		
<i>Bacidia clematis</i>									•																																				
<i>Bacidia dryina</i>							•																•				•																		
<i>Bacidia fuscus</i> sp. nov.																										•											•								
<i>Bacidia incompta</i>							•							•	•				•							•																			
<i>Bacidia laevicornis</i>										•												•		•		•	•								•	•	•	•	•	•	•	•	•	•	
<i>Bacidia phaeodes</i>							•													•						•																			
<i>Bacidia polychroa</i>	•									•										•						•										•	•								
<i>Bacidia rosella</i>																										•										•									
<i>Bacidia schweinfurthi</i>	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
<i>Bacidia</i> sp.							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
<i>Bacidia suffusa</i>							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•																		
<i>Bacopa caroliniana</i>							•																			•																			
<i>Bacopa monnieri</i>							•													•																									
<i>Bacopa</i> sp.																				•																									
<i>Baeocera fungoides</i>								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						•	•							•	•	•	
<i>Balanus eburneus</i>									•																																				
<i>Balanus</i> sp.									•																																				
<i>Baptisia alba</i>		•														•																			•										
<i>Baptisia bracteata</i>															•																					•									
<i>Baptisia cinerea</i>																									•																				
<i>Baptisia perfoliata</i>			•																																										
<i>Baptisia</i> sp.	•	•							•			•															•																		
<i>Baptisia tinctoria</i>																									•									•									•		
<i>Barbarea verna</i>																																												•	
<i>Batis aerea</i>										•																																			
<i>Batrachia pomiformis</i>										•																																			
<i>Batrachina lanata</i>																									•																				
<i>Batrachia</i> sp.																																													
<i>Batis maritima</i>								•																																					
<i>Batis philenor</i>	•	•						•																																					

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Abbeville	Albemarle	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Buella dialata</i>								*					*	*													*					*	*		*									
<i>Buella disciformis</i>	*										*	*	*	*							*		*				*							*	*		*		*	*				
<i>Buella eliae</i>																																				*								
<i>Buella leucemela</i>												*		*											*									*	*		*							
<i>Buella parsonsia</i>											*	*	*	*			*				*		*	*	*									*	*	*	*		*	*	*	*	*	
<i>Buella punctata</i>	*	*			*	*	*	*			*	*	*	*			*				*		*	*	*	*	*		*					*	*	*	*	*	*	*	*	*	*	*
<i>Buella sp.</i>	*	*			*	*	*															*																			*	*	*	*
<i>Buella stellulata</i>	*																																		*					*	*	*	*	
<i>Buella stigmae</i>																													*											*	*	*	*	
<i>Buella stilingiana</i>								*																	*		*																	
<i>Bufo americanus</i>																				*													*											*
<i>Bufo carolinensis</i>																						*																						
<i>Bufo sp.</i>															*						*																							
<i>Bufo terrestris</i>											*			*	*						*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bufo woodhousi</i>	*	*								*																*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bulbocis ibis</i>				*				*				*	*											*		*								*	*	*	*	*	*	*	*	*	*	
<i>Bulbocis in wani</i>																							*																					
<i>Bulbocis confederata</i>	*			*	*			*			*	*	*				*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bulbocis geobii</i>	*	*		*	*	*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bulbocis geobii f. minor</i>	*			*	*	*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bulbocis idida</i>											*	*	*	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Bulbocis laevigata</i>	*			*			*					*	*	*																														
<i>Bumelia hirsuta</i>	*			*			*	*			*	*	*	*									*			*																		
<i>Bumelia texana</i>				*			*				*	*	*	*									*			*																		
<i>Buprestis rufipes</i>												*																																
<i>Burmannia biflora</i>				*	*							*																																
<i>Burmannia capitata</i>											*																																	
<i>Bursera canaliculata</i>								*																																				
<i>Bursera carica</i>				*	*			*									*																											
<i>Bursera carica amena</i>																							*																					
<i>Bursera contraria</i>								*														*																						
<i>Bursera maximum</i>																						*																						
<i>Bursera sp.</i>								*																																				
<i>Bursera spirata</i>																																												*
<i>Buteo jamaicensis</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Buteo lineatus</i>	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Buteo platypterus</i>		*																																										*
<i>Buteo striatus</i>				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cabomba caroliniana</i>												*															*																	
<i>Cacalia striatiplicifolia</i>				*				*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cacalia dimidiata</i>																			*								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cakile harperi</i>				*				*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Calthus guttatus</i>							*		*					*									*			*																		*	
<i>Catillaria glaucinigrans</i>																									*																			*	
<i>Catillaria</i> sp.																								*		*																			
<i>Catops</i> sp.				*																			*																						
<i>Catopsporus semipalmatus</i>							*		*										*																										
<i>Caulophyllum thalictroides</i>																										*								*								*	*		
<i>Ceanothus americanus</i>	*							*			*															*								*	*	*	*	*	*	*	*	*	*		
<i>Cecidomyia boehmeriae</i>																						*																				*			
<i>Cecidomyia ocellaris</i>																										*																*			
<i>Cecidomyia pudibunda</i>																																	*												
<i>Cecidomyia verrucicola</i>																																		*										*	
<i>Cedrus deodara</i>																																							*					*	
<i>Celastrus liden</i>									*			*	*	*				*						*		*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Celtis amara</i>												*																																	
<i>Celtis alba</i>																				*			*		*																				
<i>Celtis occidentalis</i>												*												*		*		*						*	*	*	*	*	*	*	*	*	*	*	
<i>Celtis laevigata</i>		*					*	*	*	*	*		*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Celtis occidentalis georgiana</i>		*		*					*	*	*		*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Celtis</i> sp.																																							*	*					
<i>Cenchrus</i> sp.								*										*				*																							
<i>Cenchrus tribuloides</i>						*	*	*											*																										
<i>Centaurea cyanus</i>																				*																									
<i>Centella asiatica</i>						*	*				*	*	*	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Centropogon griseus</i>	*	*																						*																					
<i>Centropogon persicellus</i>																				*						*																			
<i>Centropogon persicellus</i>												*														*																			

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina	
<i>Chionastilus virginicus</i>	*				*							*							*	*		*		*							*	*									*	*
<i>Chione cancellata</i>																					*		◇		*																	
<i>Chione errharia</i>																							◇																			
<i>Chione grisea</i>																																										◇
<i>Chione listriata</i>																							◇																			
<i>Chlamys gibbosa</i>											*															*												*				
<i>Chlamydocherium sp.</i>																																									*	
<i>Chlamys coccinea</i>																	◇																									
<i>Chlamys sp.</i>																	◇																									
<i>Chloris petraea</i>								*	*																																	
<i>Chlorociboria aragostensis</i>																				*																						*
<i>Chondrophora nodata</i>																								*		*																
<i>Choristopoda viridifasciata</i>		*										*																										*				
<i>Chrysanthemum luculentum</i>																																		*								*
<i>Chrysomys picta</i>				*														*																								
<i>Chrysomys scripta</i>	*	*					*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Chrysomys sp.</i>															*									*		*																
<i>Chrysobothris oblongifolia</i>																								*																		
<i>Chrysosomum virginianum</i>							*																		*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Chrysosomum virginianum australe</i>							*				*															*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Chrysomela interrupta</i>																									*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Chrysomela scripta</i>							*																													*						
<i>Chrysopa crassa</i>																																										
<i>Chrysopa sp.</i>												*																														
<i>Chrysoperidulum americanum</i>																																										*
<i>Cicindela dorsalis media</i>								*																																		
<i>Cicindela punctulata</i>							*																	*																		
<i>Cicindela repanda</i>																				</																						

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkeley	Charleston	Cherokee	Chesler	Cheslerfield	Cherokee	Colliton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Cladonia arbuscula</i>																										*									*				*				*	
<i>Cladonia exilis</i>	*							*			*		*		*					*	*		*	*	*	*	*											*						
<i>Cladonia rangiferina</i>																										*	*																	*
<i>Cladonia rangiferina f. crispata</i>																									*																			
<i>Cladonia rangiferina humilis</i>																					*																							
<i>Cladonia rangiferina patula</i>																					*																							
<i>Cladonia sp.</i>																					*																							
<i>Cladonia stellaris</i>																										*																		
<i>Cladonia subterminalis</i>																					*		*										*						*					
<i>Cladonia subterminalis cinerascens</i>	*																																						*					
<i>Cladonia subterminalis subterminalis</i>	*																							*															*			*		
<i>Cladonia terminalis</i>														*																														
<i>Cladonia abbreviata</i>												*														*																		
<i>Cladonia apodocarpa</i>												*												*	*	*					*													
<i>Cladonia bacillaris</i>														*	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia ballii</i>							*															*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia beamanii</i>												*												*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia cespiticia</i>																							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia calycantha</i>							*					*										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia capitata</i>							*	*				*		*								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia curvata</i>												*									*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia caroliniana</i>												*													*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia caroliniana caroliniana</i>																					*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia coccinea</i>																											*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia coccinea</i>																					*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia coniocraea expansa</i>																																												
<i>Cladonia coniocraea f. cerasoides</i>																					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia coniocraea f. albostriata</i>	*																																		*	*	*	*	*	*	*	*	*	
<i>Cladonia coniocraea f. psycrotellata</i>																																				*	*	*	*	*	*	*	*	*
<i>Cladonia coniocraea f. subpulchella</i>	*																				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia conita</i>																											*																	*
<i>Cladonia cristatella</i>	*								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia cristatella aurantiaca</i>																							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia cristatella cristatella</i>												*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Cladonia cristatella degenerata</i>																																				*	*	*	*	*	*	*	*	*
<i>Cladonia cristatella epiphylla</i>																																												
<i>Cladonia cristatella nivescens</i>											*										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

[illegible]

SCAN: The Second Ten Years

	Abberville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Clethra alnifolia alnifolia</i>																									*																				
<i>Clethra alnifolia tomentosa</i>	*																					*																							
<i>Clibanarius vittatus</i>									*																			*																	
<i>Clinostomus funduloides</i>																												*																	
<i>Clinotela borealis</i>																																			*										
<i>Clinotela umbellata</i>																																			*									*	
<i>Clitocybe clavipes</i>																																							*						
<i>Clitocybe ectypoides</i>																																												*	
<i>Clitocybe</i> sp.																																			*										
<i>Clitocybea familia</i>									*																									*	*										
<i>Clitiria mariana</i>	*								*																				*		*		*	*											
<i>Clivina rufa</i>															*														*		*		*	*											
<i>Cloetis aphodioides</i>										*																																			
<i>Cremidophorus scabrinatus</i>	*					*		*									*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*							
<i>Cididolus stimulatus</i>	*			*							*		*	*	*							*	*		*	*								*			*							*	
<i>Coccinella septempunctata</i>													*		*						*			*	*		*	*										*	*	*	*	*	*		
<i>Coccinella</i> sp.																				*																									
<i>Coccoregia crua</i>																																		*											
<i>Coccoregia erythraealis</i>																										*	*						*											*	
<i>Coccoregia</i> <i>ococarpia</i>																																													
<i>Coccoregia</i> sp. nov.																																			*										
<i>Cocculus carolinus</i>	*									*											*			*	*		*	*					*		*	*	*	*	*	*	*	*	*		
<i>Coccyzus americanus</i>	*			*						*			*								*			*	*		*	*						*	*	*	*	*	*	*	*	*	*	*	
<i>Coccyz nucifera</i>									*																																				
<i>Codium</i> sp.								*																																					
<i>Coenogonium interplexum</i>						*		*					*													*	*						*		*										
<i>Coenogonium moniliforme</i>						*							*													*	*																		
<i>Coenogonium</i> sp.					*																					*	*																		
<i>Colaptes auratus</i>					*	*		*		*	*	*	*				*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Colaptes leucos</i>																								*	*																				
<i>Colaptes</i> sp.										*																																			
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	
<i>Colaptes auratus</i>										*																																		*	

SCAN: The Second Ten Years

	Ashville	Alpena	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chestfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	South Carolina			
<i>Collops sp.</i>																																													
<i>Collops vittatus</i>																																													
<i>Collybia albivirens</i>								*																																					
<i>Collybia dryophila</i>																										*					*														
<i>Collybia locophila</i>																										*					*														
<i>Collybia peronata</i>																								*															*						
<i>Collybia sp.</i>								*																																					
<i>Coluber constrictor</i>	*					*					*					*						*																	*						
<i>Columba leila</i>	*					*	*						*																																
<i>Columbina passerina</i>																*				*																									
<i>Colymbus fuscus</i>																																													
<i>Comandra umbellata</i>																							*																						
<i>Commelina communis</i>	*					*															*						*		*		*		*	*											
<i>Commelina erecta</i>	*															*									*																				
<i>Commelina sp.</i>				*					*												*																								
<i>Commelina virginica</i>	*								*											*										*															
<i>Conocophanes fasciatus</i>																																													
<i>Conocophanes strictus</i>																																							*						
<i>Conopsea galata</i>						*		*																																					
<i>Conopholis americana</i>	*								*							*				*	*										*		*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Conostyles sp.</i>																																			*										
<i>Conotrachelus porficatus</i>																																						*							
<i>Conradostrea lawrensi</i>																																													
<i>Coriophila virens</i>	*																						*										*	*	*	*	*	*	*	*	*	*	*	*	
<i>Cornus alternifolia</i>																							*																					*	
<i>Cornus waxmaniana</i>																							*																					*	
<i>Copaxodes minus</i>																																				*									
<i>Copelatus chersifolii chersifolii</i>																											*																		
<i>Coplin inflatus</i>	*												*																																
<i>Coprinus atramentarius</i>																										*				*															
<i>Coprinus comatus</i>					*																																								
<i>Coprinus variegatus</i>																							*																						
<i>Coprinus lenis</i>																																													
<i>Coprinus striatus</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Corallorhiza innominata</i>																	*																											*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																												*	
<i>Corallorhiza innominata</i>																																	</												

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Dibolia</i> sp.																		•																											
<i>Dibolochus ovalis</i>																		•																											
<i>Dicelcus ambiguus</i>																												•														•			
<i>Dicelcus dilatatus</i>	•											•																																	
<i>Dicelcus elongatus</i>							•																																						
<i>Dicelcus ovalis</i>																									•																				
<i>Dicelcus purpuratus</i>																																													
<i>Dicelcus</i> sp.																																													
<i>Dicertra cucullaria</i>																																													
<i>Dicertra discaricata</i>																																													
<i>Dicertra tuberculata</i>																																													
<i>Dicheleoxys elongata</i>																																													
<i>Dicheleoxys fuscula</i>																																													
<i>Dicheleoxys</i> sp.																																													
<i>Dicheleoxys subnitida</i>																																													
<i>Dichondra carolinensis</i>	•	•		•					•											•			•																			•			
<i>Dichomena colorata</i>									•																																				
<i>Dichomena latifolia</i>								•																																					
<i>Dichromerpha viridis</i>	•																																												
<i>Dicranum scoparium</i>																																													
<i>Distidium cancellatum</i>																																													
<i>Dichaplexis aurora</i>							•																																						
<i>Didelphis virginiana</i>														•	•																														
<i>Diervilla bicolor</i>																																													
<i>Diervilla lonicera</i>																																													
<i>Diervilla sessilifolia</i>																																													
<i>Dimorpha laeta</i>																												•																	
<i>Dimorpha aximilis</i>							•																																						
<i>Dimorpha carolinus</i>								•				•																																	
<i>Dimorpha discolor</i>															•	•	•																												
<i>Dimorpha emarginatus</i>	•						•	•				•													•																				
<i>Dimorpha horai</i>												•																																	
<i>Dimorpha roberti</i>											•																																		
<i>Dimorpha</i> <i>serrulatus serrulatus</i>	•																																												
<i>Dimorpha</i> sp.		•						•																					•																
<i>Disocarpidium robustum</i>									•																																				
<i>Diola trevis</i>	•	•										•																•																	
<i>Diola virginiana</i>																											•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
<i>Dioscorea cayensis</i>									•																																				
<i>Dioscorea muscipula</i>																											•																		
<i>Dioscorea batatas</i>								•																				•																	
<i>Dioscorea</i> sp.											•																																		
<i>Dioscorea villosa</i>	•	•				•															•		•					•							•	•	•	•	•	•	•	•	•	•	

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chesler	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Drosera intermedia</i>								*				*											*	*																				
<i>Drosera leucantha</i>													*											*	*		*																	
<i>Drosera</i> sp.																											*																	
<i>Dryophila melanogaster</i>	*																																											
<i>Dryocampa rubicunda</i>																																					*							
<i>Dryocopus pileatus</i>	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Dryophanta</i> sp.						*																																						
<i>Dryopteris campyloptera</i>																																												*
<i>Dryopteris celsa</i>																																						*		*				
<i>Dryopteris intermedia</i>																																				*								
<i>Dryopteris marginalis</i>																													*	*													*	*
<i>Dryopteris</i> sp.																																											*	*
<i>Duchesnea indica</i>	*							*			*				*																						*	*						
<i>Delichium arundinaceum</i>	*				*						*				*								*	*			*												*					
<i>Demetella carolinensis</i>	*					*	*	*	*		*									*							*													*				*
<i>Dyschirius</i> sp.														*																														
<i>Dyschoriste oblongifolia</i>				*																																								
<i>Deviles abscarus</i>							*																																					
<i>Echinoclhus crugalli</i>																												*											*					
<i>Echinodacus cordifolius</i>	*						*																																					
<i>Elodia alba</i>								*																			*	*											*					
<i>Epanthaeria scribana</i>															*																													
<i>Epthora quadricostata</i>																																												*
<i>Egeria densa</i>	*							*							*								*														*							
<i>Egretta caerulea</i>	*				*	*	*	*					*								*			*	*																*			
<i>Egretta relesces</i>	*																																											
<i>Egretta thula</i>	*				*	*	*								*						*				*																			
<i>Egretta tricolor</i>					*	*	*						*							*																								
<i>Eichhornia crassipes</i>														*																						*								
<i>Elaragus pungens</i>					*																																				*			*
<i>Elaragus umbellata</i>	*	*								*																										*				*		*	*	*
<i>Elanoides forficatus</i>			*																																									
<i>Elaphe guttata</i>						*											*																											
<i>Elaphe obsoleta</i>							*												*																									
<i>Elaphidion mucronatum</i>																																												*
<i>Eleocharis equisetoides</i>																									*																			
<i>Eleocharis obtusa</i>	*																																											
<i>Eleocharis</i> sp.																						*																						
<i>Eleocharis tuberculosa</i>																											*																	
<i>Elephantopus carolinianus</i>										*					*				*		*	*	*	*	*	*	*			*						*		*						
<i>Elephantopus clatus</i>								*																																				
<i>Elephantopus nudatus</i>														*																														

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

[illegible]

SCAN: The Second Ten Years

	Abbeville	Aiken	Altamaha	Anderson	Bamberg	Beaufort	Beckley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Fraxinus</i> sp.	*			*	*			*								*		*			*								*					*			*		*				
<i>Fraxinus leucostoma</i>											*											*													*			*		*			
<i>Frodichia floridana</i>											*																									*			*		*		
<i>Frodichia gracilis</i>																								*															*		*		
<i>Frodichia pyramidalis</i>									*													*				*													*		*		
<i>Frodichia</i> sp.																																		*					*		*		
<i>Falces squarrosa</i>	*				*					*																*													*		*		
<i>Falces americana</i>					*		*				*		*						*			*					*											*		*		*	
<i>Falces sayes</i>	*																																										
<i>Fandulus heteroclitus</i>																						*																					
<i>Fuscoberina</i>																				*																							
<i>Fuscoberina</i>																				*																							
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																					*																						
<i>Fuscoberina</i>																																											

SCAN: The Second Ten Years

	Abbeville	Albemarle	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkeley	Charleston	Cherokee	Chesler	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Harley	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Union	York	Georgia	N. Carolina	
<i>Ceanothus americanus</i>	*							*																																			
<i>Ceanothus</i> sp.								*																																			
<i>Cladonia aculeata</i>																																											
<i>Cladonia</i> sp.																																											
<i>Columella semperveres</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Crestaria autumnalis</i>												*															*																
<i>Crestaria catenaria</i>														*							*																						
<i>Crestaria</i> sp.													*						*																								
<i>Crestaria villosa</i>													*														*											*					
<i>Crotophaga iridis</i>		*						*	*									*			*			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Crotophaga blackburnii</i>												*									*																	*					
<i>Crotophaga egeria</i>						*																																					
<i>Crotophaga caroliniana</i>			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Crotophaga maculata</i>	*						*																				*											*					*
<i>Crotophaga rymalis</i>																												*															
<i>Crotophaga</i> sp.																																											
<i>Crotophaga decima</i>							*	*																																			
<i>Crotophaga canadensis</i>	*																																										
<i>Crotophaga</i> sp.																																										*	
<i>Crotophaga trifoliata</i>																				*																							
<i>Crotophaga viridis</i>								*																			*											*					
<i>Crotophaga hederacea</i>									*			*															*																*
<i>Crotophaga aquatica</i>												*							*																		*						
<i>Crotophaga tricaules</i>			*					*	*									*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Crotophaga</i> sp.																																											
<i>Crotophaga vesicularum</i>							*	*				*													*		*																
<i>Crotophaga americana</i>																									*																		*
<i>Crotophaga arata</i>																									*																		
<i>Crotophaga pectinata</i>																									*																		
<i>Crotophaga ciliaris</i>	*						*	*										*							*		*		*									*					
<i>Crotophaga</i> sp.																																											
<i>Crotophaga lecontei</i>																																							*				
<i>Crotophaga obtusifolia</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Crotophaga purpurea</i>												*	*							*																							
<i>Crotophaga</i> sp.	*																			*			*																				
<i>Crotophaga alutacea</i>																																											*
<i>Crotophaga</i>																																											
<i>Crotophaga scutellata</i>																																											*
<i>Crotophaga</i>																																											
<i>Crotophaga floccosa</i>																																											*
<i>Crotophaga</i> sp.																																											*
<i>Crotophaga californica</i>																																											
<i>Crotophaga</i> sp.	*																																										

SCAN: The Second Ten Years

	Alberville	Alben	Alfordale	Anderson	Bamberg	Barrow	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesler	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Geothra pubescens</i>	*									*					*						*							*	*			*	*	*	*	*		*	*	*	*	*	*	*
<i>Gophus polyphemus</i>																																												
<i>Gordonia leucostoma</i>	*				*								*	*	*							*	*																	*				
<i>Gouldia metatrata</i>																							*																					
<i>Grammia virgo</i>																																					*							
<i>Grammoptera</i> sp.																												*																
<i>Graphia sophisticians</i>										*																																		
<i>Graphia stelli</i>					*																					*	*																	
<i>Graphia subtracta</i>																																				*								
<i>Graphia strobilata</i>													*					*									*									*								
<i>Graphia bezzantii</i>					*																		*				*										*							
<i>Graphia elegans</i>					*	*	*					*							*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Graphia grammata</i>																			*								*																	
<i>Graphia intricata</i>																											*																	
<i>Graphia leucophaea</i>								*																		*											*							
<i>Graphia lineola</i>	*																									*																		
<i>Graphia mesoleuca</i>	*				*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Graphia nitida</i>					*													*		*			*			*		*						*	*	*	*	*	*	*	*	*	*	*
<i>Graphia pallens</i>	*																			*				*		*		*																
<i>Graphia scripta</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Graphia scripta topographica</i>																										*																		*
<i>Graphia</i> sp.	*			*	*	*														*	*	*									*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Graphia striatella</i>																											*																	
<i>Graphia tenuis</i>																				*				*			*																	
<i>Graphoderus liberus</i>						*																					*																	
<i>Graphogaster leucostoma</i>	*																																		*			*						
<i>Graphogaster</i> sp.	*																																					*						
<i>Graphopteryx curtipennis</i>																										*																		
<i>Gratula pilosa</i>																											*								*									
<i>Gratula</i> sp.																											*																	
<i>Gratula virginiana</i>															*																													
<i>Gryllus assimilis</i>	*																																											
<i>Gryllus</i> sp.	*							*											*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Caltrix carolina</i>																																			*									
<i>Gymnoderma lineare</i>																																		*										
<i>Gymnoderma ambigua</i>																											*																	
<i>Gymnoderma brevis</i>											*																																	
<i>Gymnosporangium</i>																		*									*																	
<i>Gymnosporangium fennellii</i>																											*																	
<i>Gymnosporangium</i> sp.	*																																											*
<i>Gyrinus analis</i>						*																																*						
<i>Gyrinus borealis</i>	*																						*														*							
<i>Gyrinus brevis</i>																																	*				*							

SCAN: The Second Ten Years

	Abbeville	Allen	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkeley	Charleston	Cherokee	Chesler	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Oconeeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Cyrtus lugens</i>								•						•										•																				•	
<i>Cyrtus rockhamensis</i>																								•																					
<i>Cyrtus sp.</i>						•																																							
<i>Gomphana cornucula</i>	•																																												
<i>Gomphana dissimilis</i>	•																																												
<i>Gomphana parvulus</i>																																													
<i>Gyrinus scaphiferus</i>																																													
<i>Gyrinus scaphiferus</i>																																													
<i>Gyrinus sp.</i>																																													
<i>Habenaria ciliaris</i>																																													
<i>Habenaria clavellata</i>																																													
<i>Habenaria cristata</i>																																													
<i>Habenaria flava</i>																																													
<i>Habenaria repens</i>																																													
<i>Hematomma cuneiforme</i>																																													
<i>Hematomma elatum</i>																																													
<i>Hematomma schroederianum</i>																																													
<i>Hematomma punctum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																													
<i>Hematomma pallidum</i>																																										</			

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Helianthemum rosmarinifolium</i>	*					*																										*										
<i>Helianthus angustifolius</i>										*																																
<i>Helianthus strabus</i>																																				*						
<i>Helianthus microcephalus</i>																																*							*			
<i>Helianthus</i> sp.																															*		*									
<i>Helianthus tomentosus</i>																			*																							
<i>Heliopsis charitensis tuckeri</i>	*				*	*	*	*																																		
<i>Heliopsis</i> sp.																	*																									
<i>Heliopsis amplexicaule</i>	*																										*															
<i>Hemitheros vernicularis</i>																		*													*											*
<i>Holocombus bifidus</i>											*																															
<i>Heliopsis picticollis</i>																															*											
<i>Helvella acetabulum</i>																																			*							
<i>Hemadys nobilipennis</i>																																*										*
<i>Hemaris thysbe</i>																						*			*																	
Hemerobidae Family																		*																								
<i>Hemerocallis fulva</i>						*																																				
<i>Hemiphris serrata</i>																																										*
<i>Hemiphris cyanea</i>						*						*																														*
<i>Hemiphris</i> sp.																																										*
<i>Hemiphris</i> sp.																																										*
<i>Hemiphris acutifolia</i>																																*										*
<i>Hemiphris americana</i>	*	*							*																*	*		*		*		*		*		*		*		*		*
<i>Hemiphris ophelites</i>							*																																			*
<i>Hericium coraloides</i>						*																																*				*
<i>Hericium erinaceus</i>																		*																		*						*
<i>Hericium</i> sp.											*																															*
<i>Hermesmythia susilis</i>	*	*	*						*	*		*												*	*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis</i> sp.																																*										
<i>Heterodermis albicans</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis casertiana</i>						*		*															*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis echinata</i>																					*										*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis grandiflora</i>						*															*																					*
<i>Heterodermis grossi</i>																																	*		*							*
<i>Heterodermis hypoleuca</i>				*	*																											*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis</i> <i>lucumeliana</i>																																*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis lucumeliana</i>																															*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis obscurata</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis</i> sp.																																	*									*
<i>Heterodermis</i> <i>spicata</i> sp. nov.							*			*											*									*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis speciosa</i>							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Heterodermis squamulosa</i>																																										*

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chesler	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	S. Carolina				
<i>Heterodera platyrhinus</i>								*											*							*																					
<i>Heterotheca gossypina</i>												*																																			
<i>Heterotheca praeinflata</i>												*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Heterotheca mariana</i>												*						*																													
<i>Heterotheca nervosa</i>								*										*																													
<i>Heterotheca nervosa</i>							*																																								
<i>Heterotheca subaxillaris</i>							*		*										*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Heterodermia caeruleana</i>								*													*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hirschia americana</i>	*	*																									*											*	*	*	*	*	*	*	*	*	
<i>Hirschia</i> sp.																																															
<i>Hirschia villosa</i>																																															
<i>Hirschia</i> sp.																	*																														
<i>Hirsutiis arifolia</i>	*	*	*	*	*	*			*						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hirsutiis contracta</i>																																															
<i>Hirsutiis heterophylla</i>																																															
<i>Hirsutiis minor</i>									*																																						
<i>Hirsutiis shuttleworthii</i>												*																																			
<i>Hirsutiis</i> sp.												*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hibiscus moscheutos</i>								*		*																*																					
<i>Hibiscus</i> sp.				*																																											
<i>Hieracium grenovii</i>																											*	*	*																		
<i>Hieracium paniculatum</i>																					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hieracium</i> sp.																					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hieracium venosum</i>	*	*																			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hippocampus eridi</i>																				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hippodamia convergens</i>				*		*	*	*																																							
<i>Hippopsis lemniscata</i>								*																																							
<i>Hirundo rustica</i>		*							*																		*										*	*									
<i>Hister depressus</i>							*																																								
<i>Holothrixella petaloides</i>	*																																														
<i>Holothrix immaculata</i>																										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hoplocraphala viridipennis</i>								*																		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Hortulanatus variatus</i>																																															
<i>Hormaphys hamamelidis</i>	*																																														
<i>Houstonia caerulea</i>																					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Houstonia longifolia</i>	*																										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Houstonia procumbens</i>							*	*	*																																						
<i>Houstonia purpurea</i>					*																						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Houstonia pusilla</i>	*			*				*			*	*						*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Houstonia serpyllifolia</i>									*		*							*																													
<i>Houstonia</i> sp.																				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Houstonia tenuifolia</i>																					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

SCAN: The Second Ten Years

	Abbeville	Albemarle	Allendale	Anderson	Bamberg	Barrow	Beaufort	Beckley	Charlotte	Cherokee	Chester	Chesterfield	Clemson	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Hedonia tricolor</i>												*																																
<i>Humaria hemisphaerica</i>																																							*					
<i>Hybostolus caucular</i>											*																*																	*
<i>Hydnum imbricatum</i>																											*											*						
<i>Hydrangea arborescens</i>																					*								*							*						*		
<i>Hydrangea arborescens</i>																																				*						*		
<i>Hydrangea arborescens discolor</i>																																										*		
<i>Hydrangea arborescens radiata</i>																					*															*								
<i>Hydrangea quercifolia</i>																																												*
<i>Hydia pruinosa</i>																																				*								
<i>Hydrobates melanos</i>							*																																					
<i>Hydrocaulus bicolor</i>											*																		*															
<i>Hydrocaulus oblongus</i>																								*																				
<i>Hydrochara sora</i>							*																																					
<i>Hydrochara excavata</i>											*																																	
<i>Hydrochara inaequalis</i>			*																																									
<i>Hydrocolea boarmanii</i>							*		*											*																								
<i>Hydrocolea ranauloides</i>								*	*				*										*	*																				
<i>Hydrocolea subterplodes</i>													*											*	*																			
<i>Hydrocolea sp.</i>		*	*	*	*	*	*	*				*							*	*																*								
<i>Hydrocolea umbellata</i>	*																						*									*												
<i>Hydrocolea verticillata</i>	*																																				*							
<i>Hydrola quadriclavis</i>					*																											*												
<i>Hydrophilus triangularis</i>																																												*
<i>Hydrophyllum canadense</i>																																												*
<i>Hydroporus carolinus</i>															*		*																					*						
<i>Hydroporus cinctoides</i>																								*															*					
<i>Hydroporus cyrtalis</i>				*												*		*						*																				
<i>Hydroporus hybridus</i>															*			*						*					*															
<i>Hydroporus lobatus</i>																	*											*											*					
<i>Hydroporus niger</i>											*																																*	
<i>Hydroporus sp.</i>				*						*				*																													*	
<i>Hydroporus undulatus</i>																																						*						
<i>Hydroporus vittipennis</i>															*		*																											
<i>Hydropysche sp.</i>																																			*									
<i>Hydrosyria venosa</i>										*																*																		
<i>Hydrysia pusillatus</i>								*																																				
<i>Hygroche panica</i>																					*																							
<i>Hygrophorus cantharellus</i>																								*				*																
<i>Hygrophorus coccineus</i>																													*										*					*
<i>Hygrophorus minutus</i>																												*																
<i>Hygrophorus pratensis</i>	*																																											

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Union	York	Georgia	N. Carolina						
<i>Hyla chrysocelis</i>		*																		*												*																
<i>Hyla cinerea</i>						*	*		*				*	*	*					*				*		*																						
<i>Hyla crucifer</i>						*	*							*				*			*													*		*												
<i>Hyla femoralis</i>		*					*	*		*													*																									
<i>Hyla sp.</i>													*										*																									
<i>Hyla squirella</i>					*																																											
<i>Hyla versicolor</i>																																							*	*								
<i>Hyalophila phyllis</i>																																							*									
<i>Hibicilia meritima</i>		*																				*						*						*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Himenocallis occidentalis</i>	*									*																																						
<i>Hymenocis sp.</i>									*																																							
<i>Hypochaeris obliqua</i>																											*																					
<i>Hypochaeris sp.</i>															*																			*														
<i>Hyperaspis sp.</i>																																											*					
<i>Hypericum densiflorum</i>																*											*																					
<i>Hypericum fasciculatum</i>								*						*																																		
<i>Hypericum gentianoides</i>	*											*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypericum pinnatifidum</i>																							*																									
<i>Hypericum hypericoides</i>	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypericum lloydii</i>																											*		*					*														
<i>Hypericum multifidum</i>	*	*																																	*													
<i>Hypericum radcliffianum</i>									*																																							
<i>Hypericum punctatum</i>	*																																															
<i>Hypericum sp.</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypericum stans</i>							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypericum stragaleum</i>																											*		*						*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypericum virginicum</i>				*																																*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypericum walteri</i>				*																			*			*		*		*												*						
<i>Hyperphygia cynclia</i>						*								*																					*													
<i>Hyperophrys maculatus</i>																											*																					
<i>Hypobatrachia conea</i>							*																					*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypoglossocis sp.</i>																										*																						
<i>Hypocnemis kreggii</i>																							*																									*
<i>Hypocnemis phryodes</i>																																																*
<i>Hypocnemis sp.</i>																																																*
<i>Hypomys chrysomus</i>																						*																										
<i>Hypomys heterocircus</i>																																															*	
<i>Hypotrachyna</i>																						*																										
<i>Hypotrachyna cincta</i> sp. nov.																						*																										
<i>Hypotrachyna emilia</i>																																				*												
<i>Hypotrachyna formosana</i>				*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypotrachyna livida</i>	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Hypotrachyna livida</i> f. <i>arvensis</i>																						*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SCAN: The Second Ten Years

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina	
<i>Hypotrachyna punctilifera</i>	*							*						*						*				*																		*
<i>Hypotrachyna revoluta</i>																				*													*									*
<i>Hypotrachyna blanda</i>	*	*												*			*				*					*	*						*		*	*						*
<i>Hypotrachyna micrantha</i>																						*														*						
<i>Hypotrachyna rigida</i>																							*						*							*						
<i>Hypotrachyna sp.</i>																							*					*														
<i>Hypoxylon sp.</i>																							*																			
<i>Hypoxophya monilis</i>																									*											*						
<i>Hydn. alata</i>																		*																								
<i>Icteria porphyria</i>								*																																		
<i>Icteria virens</i>																							*				*							*								
<i>Icteria spurius</i>																							*				*							*								
<i>Ictinia ministipennis</i>																						*																				
<i>Ilex ambigua</i>																*																										
<i>Ilex ambigua montana</i>			*																	*																						*
<i>Ilex cuneata cuneata</i>						*	*																																			
<i>Ilex cuneata myrtifolia</i>				*		*												*									*															
<i>Ilex coriacea</i>	*			*	*	*			*	*	*	*	*	*	*	*			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ilex decidua</i>	*			*		*		*		*								*						*			*			*	*			*	*	*	*	*	*	*	*	*
<i>Ilex decidua longipes</i>																																				*	*	*	*	*	*	*
<i>Ilex glabra</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ilex opaca</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ilex sp.</i>	*													*																												
<i>Ilex verticillata</i>														*																												
<i>Ilex vomitoria</i>				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Illicium sp.</i>														*																												
<i>Immanusa abuleta</i>																		*																								
<i>Immanusa biguttata</i>																						*					*	*						*	*	*	*	*	*	*	*	
<i>Impatiens capensis</i>	*	*							*				*								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Impatiens pallida</i>										*			*								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Immanusa albertus</i>																		*			*								*	*				*	*						*	*
<i>Immanusa placidula</i>																	*																								*	*
<i>Indigofera caroliniana</i>						*																*	*															*				
<i>Inocybe fasciculata</i>																																	*									
<i>Inocybe gossypifolia</i>				*																						*																
<i>Ipomoea coccinea</i>																									*																	
<i>Ipomoea hederacea</i>						*			*																	*																
<i>Ipomoea lacunosa</i>																										*																
<i>Ipomoea pandurata</i>																																	*					*				
<i>Ipomoea purpurea</i>												*	*																													
<i>Ipomoea sagittata</i>													*																													
<i>Ipomoea sp.</i>								*	*																								*									

SCAN: The Second Ten Years

[illegible]

Scientific Name Index

	Abbottville	Altoona	Altamont	Anderson	Barnesville	Beaufort	Berkeley	Cherokee	Chesler	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Durham	Fairfield	Florence	Georgetown	Greenville	Greenville	Hampden	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina						
<i>Junonia oenia</i>	•				•	•	•			•				•	•		•	•	•	•	•	•	•	•										•	•					•	•						
<i>Justicia americana</i>																																			•												
<i>Justicia ovata</i>				•																															•												
<i>Kalmia angustifolia</i>										•	•	•									•																										
<i>Kalmia angustifolia caroliniana</i>												•									•																										
<i>Kalmia latifolia</i>	•							•	•	•	•	•								•						•	•					•	•	•	•	•	•	•	•	•	•	•	•	•			
<i>Kinostemon tabularum</i>	•																									•													•								
<i>Koeleria virginica</i>										•																																					
<i>Krigia dendroica</i>																																				•											
<i>Krigia virginica</i>	•	•								•															•											•								•			
<i>Lacaria lacata</i>												•														•																				•	
<i>Lacaria ochroparva</i>																									•																						
<i>Lacophilus fasciatus reflexus</i>																										•																					
<i>Lacophilus fasciatus</i>		•							•																		•																				
<i>Lacophilus maculatus maculatus</i>																																															
<i>Lacophilus proximus</i>													•																																		
<i>Lacophilus schwartzii</i>																											•																				
<i>Lachnaea caroliniana</i>			•		•				•	•	•	•										•																									
<i>Lachnocaulon scopis</i>						•			•															•																							
<i>Lachnocaulon beyrichianum</i>													•																																		
<i>Lachnocaulon sp.</i>																						•																									
<i>Lactis marmoratus</i>																	•																														
<i>Lactarius corrugis</i>							•																																								
<i>Lactarius ladis</i>																									•											•	•										
<i>Lactarius luteolus</i>																																															•
<i>Lactarius peckii</i>																																															•
<i>Lactarius piperatus</i>	•																								•															•	•						
<i>Lactarius scrobiculatus</i>																			•						•																						
<i>Lactarius sp.</i>																											•																				
<i>Lactarius viduus</i>																									•																						
<i>Lactarius volemus</i>	•																																														
<i>Lactuca biennis</i>																																			•												
<i>Lactuca canadensis</i>																									•																						
<i>Lactuca floridana</i>																									•																						
<i>Lactuca sp.</i>				•	•		•	•	•	•							•									•										•	•										
<i>Ladonia depauperata</i>									•																	•									•												
<i>Lasiophloeus modestus</i>													•																																		
<i>Lasiurus sulphureus</i>							•	•																•																							
<i>Lasionia angusticollis</i>	•	•		•	•		•	•				•												•																							
<i>Lasionia purpurum</i>												•																																			
<i>Lania sp.</i>																						•																									

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charlton	Cherokee	Chester	Cheslerfield	Charendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Fluence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina		
<i>Lecanora pallida</i> f. <i>prolixa</i>								*															*																						
<i>Lecanora pallida rubescens</i>								*																																	*				
<i>Lecanora parietalis</i>																											*																		
<i>Lecanora polystropha</i>																			*																									*	
<i>Lecanora pulicaris</i>																			*																										
<i>Lecanora rugosa</i>												*															*																		
<i>Lecanora saligna</i>												*			*						*		*	*	*	*	*								*	*	*								
<i>Lecanora</i> sp.								*					*		*					*		*	*	*	*	*	*							*	*	*									
<i>Lecanora</i> sp. #2 Brada								*					*		*					*		*					*																		
<i>Lecanora subfusca</i>		*																								*																			
<i>Lecanora subimmergens</i>																																						*							
<i>Lecanora varia</i>	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*
<i>Lecanora willetii</i>													*													*												*	*	*	*	*	*	*	
<i>Lecicium scabrum</i>	*																									*																			
<i>Lecina</i> sp.																												*																	
<i>Lecina villosa</i>																					*					*		*																*	
<i>Lecidea albocorticescens</i>														*					*			*				*		*										*							
<i>Lecidea carnosolutes</i>														*					*							*		*										*							
<i>Lecidea chrysophylla</i>								*																																					
<i>Lecidea congesta</i>																										*																		*	
<i>Lecidea costigata</i>																											*																	*	
<i>Lecidea cyanea</i>																										*																			
<i>Lecidea mutabilis</i>																				*						*		*																	
<i>Lecidea variocarpoides</i>														*								*			*	*	*							*											
<i>Lecidea wylanderi</i>											*														*	*	*														*				
<i>Lecidea urinaloides</i>												*															*																		
<i>Lecidea parasma</i>																									*	*								*											
<i>Lecidea parasma</i> <i>thioplaca</i>																								*	*	*								*											
<i>Lecidea promiscua</i>																								*	*	*									*									*	
<i>Lecidea rinvallii</i>	*			*	*							*		*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Lecidea</i> sp.											*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Lecidea tessellata</i>												*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Lecidea varians</i>																								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Lecrnia fruticularis</i>	*																																												
<i>Lecrnia eryzaoides</i>					*																		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Lecrnia</i> sp.																																							*	*	*	*	*	*	
<i>Leobosoma</i> sp.									•		•																																		
<i>Leliophyllum lucidifolium</i>												*		*																			*											*	
<i>Lema albidii</i>																												•																	
<i>Lema tuxi</i>		•	•																																										
<i>Lema</i> sp.									•		•																																		
<i>Lemislina</i> sp.																																													

Scientific Name Index

[illegible]

Scientific Name Index

	Alberville	Allen	Allendale	Anderson	Barnesburg	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Circleville	Colton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	N. Carolina	
<i>Lespedeza repens</i>										*																	*		*													
<i>Lespedeza sp.</i>												*	*					*												*		*										
<i>Lesin sp.</i>																									*																	
<i>Lesin vicia</i>											*																															
<i>Lesin vigintia</i>																											*															
<i>Leucaea dominicensis</i>							*	*													*					*	*	*														
<i>Leucaea sp.</i>																					*																					
<i>Leucaea vulpinum</i>																		*																								
<i>Leucaea venusta</i>	*	*						*	*					*								*										*		*	*	*	*	*	*	*	*	*
<i>Leucaeam aestivum</i>												*								*		*																				*
<i>Leucothoe axillaris</i>		*						*				*							*		*		*			*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Leucothoe axillaris axillaris</i>				*								*								*	*		*													*	*	*	*	*	*	*
<i>Leucothoe axillaris editorum</i>																			*		*										*				*	*	*	*	*	*	*	*
<i>Leucothoe populifolia</i>												*									*																					
<i>Leucothoe racemosa</i>	*			*					*			*	*	*							*	*		*	*		*			*						*	*	*	*	*	*	*
<i>Leucothoe recurva</i>																						*					*											*	*	*	*	*
<i>Leucothoe sp.</i>																																										*
<i>Leucogonathus marmoratus</i>																																	*									*
<i>Liatrix elegans</i>											*										*																					
<i>Liatrix gracilifolia</i>											*											*									*			*								
<i>Liatrix secunda</i>	*																					*																				
<i>Liatrix sp.</i>																					*																					
<i>Liatrix spicata</i>																											*															
<i>Liatrix spirata rostrata</i>																											*															
<i>Libellula auripennis</i>	*						*				*											*				*						*			*							
<i>Libellula axillata</i>	*																																									
<i>Libellula exilis depunctata</i>																																										*
<i>Libellula inexta</i>	*								*																		*			*		*		*				*				
<i>Libellula lactuca</i>	*											*								*								*				*		*		*						
<i>Libellula lydia</i>	*																																									*
<i>Libellula palchella</i>												*													*																	
<i>Libellula semiflavata</i>																					*					*		*														
<i>Libellula sp.</i>																																							*			
<i>Libellula vibrans</i>	*	*						*	*																	*	*	*		*		*		*		*		*		*	*	*
<i>Libinia sp.</i>								*																																		
<i>Libytheana carinenta</i>						*	*			*			*														*		*		*	*	*	*	*	*	*	*	*	*	*	*
<i>Ligusticum canadense</i>																										*																
<i>Ligustrum japonicum</i>						*	*						*														*		*													
<i>Ligustrum sinense</i>	*			*	*	*	*		*			*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ligustrum sp.</i>																									*															*		
<i>Ligustrum vulgare</i>																							*													*						
<i>Olium michauxii</i>																																				*						

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Alben	Alendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Labella</i> sp.							*				*																																		
<i>Lalage</i> sp.																			*																										
<i>Laocera fragrantissima</i>	*																																												
<i>Laocera japonica</i>	*	*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Laocera sempervirens</i>							*	*					*	*				*		*		*						*						*	*	*	*	*	*	*	*	*	*	*	
<i>Lophodites cucullatus</i>							*	*					*				*																		*	*	*	*	*	*	*	*	*	*	
<i>Lordithus pygmaeus</i>																								*																					
<i>Lordithus</i> sp.																			*																										
<i>Luxandrus minor</i>																																						*							
<i>Lacnus elaphus</i>																					*																								
<i>Lacidota atra</i>	*							*																																					
<i>Lacidota</i> sp.																																				*									
<i>Ludwigia alternifolia</i>							*	*					*														*	*	*	*	*	*	*	*			*								
<i>Ludwigia decurrens</i>							*		*																		*	*	*	*	*	*	*	*							*				
<i>Ludwigia leptocarpa</i>													*											*																					
<i>Ludwigia linearis</i>																								*				*	*	*	*	*	*	*	*										
<i>Ludwigia palustris</i>																							*				*	*	*	*	*	*	*	*											
<i>Ludwigia pilosa</i>													*										*				*	*	*	*	*	*	*	*											
<i>Ludwigia repens</i>																							*				*	*	*	*	*	*	*	*											
<i>Ludwigia</i> sp.	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ludwigia sphaerocarpa</i>																													*	*	*	*	*	*	*	*									
<i>Ludwigia suffruticosa</i>	*																										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ludwigia uruguayensis</i>								*																			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ludwigia virgata</i>							*	*																			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Lupinus</i> sp.												*															*																		
<i>Lupinus diffusus</i>											*																*																		
<i>Lupinus perennis</i>												*															*																		
<i>Lupinus</i> sp.																			*								*																		
<i>Lutra canadensis</i>							*	*					*																							*									
<i>Luzula acuminata</i>																																			*										
<i>Luzula echinata</i>	*							*				*															*									*									
<i>Luzula</i> sp.																	*										*							*		*									
<i>Lychnis arifolia</i>																														*				*		*							*		
<i>Lyngbya epidendrum</i>							*																													*									
<i>Lycomorpha phlox</i>																																												*	
<i>Lycopersicon echinatum</i>											*																*																		
<i>Lycopersicon perlatum</i>																				*							*									*								*	
<i>Lycopersicon pusillum</i>																								*																					
<i>Lycopersicon pyriforme</i>																																													
<i>Lycopersicon</i> sp.																			*																										
<i>Lycosodium adpressum</i>							*				*									*						*			*																

Scientific Name Index

	Abbeville	Allen	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Union	York	Georgia	N. Carolina		
<i>Lycopodium carolinianum</i>																																												
<i>Lycopodium clavatum</i>																																												
<i>Lycopodium flabelliforme</i>																																												
<i>Lycopodium lucidulum</i>																																												
<i>Lycopodium obscurum</i>																																												
<i>Lycopodium</i> sp.																																												
<i>Lyceus rubellus</i>																																												
<i>Lyceus</i> sp.																																												
<i>Lyceus virginicus</i>																																												
<i>Lycea carolinensis</i>																																												
<i>Lycea gelesa</i>																																												
<i>Lycea rubida</i>																																												
<i>Lycea</i> sp.																																												
<i>Lygodium japonicum</i>																																												
<i>Lygodium palmatum</i>																																												
<i>Lyonia ferruginea</i>																																												
<i>Lyonia ligustrina</i>																																												
<i>Lyonia lucida</i>																																												
<i>Lyonia mariana</i>																																												
<i>Lyropecten nodosus</i>																																												
<i>Lythymachia nummularia</i>																																												
<i>Lythymachia quadrifolia</i>																																												
<i>Lytha aenea</i>																																												
<i>Macrocladylus angustatus</i>																																												
<i>Matronia</i> sp.																																												
<i>Macronia fasciolata</i>																																												
<i>Maglicada</i> sp.																																												
<i>Magnolia acuminata</i>																																												
<i>Magnolia fraseri</i>																																												
<i>Magnolia grandiflora</i>																																												
<i>Magnolia tripetala</i>																																												
<i>Magnolia virginiana</i>																																												
<i>Malanthemum canadense</i>																																												
<i>Malacosoma</i> sp.																																												
<i>Malachius</i> sp.																																												
<i>Malacemys terrapin</i>																																												
<i>Malacosoma americanum</i>																																												
<i>Malacosoma distria</i>																																												
<i>Maladera castanea</i>																																												
<i>Malaxis unifolia</i>																																												
<i>Malhodes curvatus</i>																																												
<i>Malhodes</i> sp.																																												

Scientific Name Index

	Abbeville	Alben	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkley	Charleston	Cherokee	Chesler	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Malus angustifolia</i>																								*							*													*	
<i>Malus paniculata</i>													*																															*	
<i>Marasmius rotula</i>																																					*								
<i>Marasmius siccus</i>																																		*			*	*							
<i>Marasmius sp.</i>																				*												*													
<i>Margaritopsis sp.</i>																							*																						
<i>Marmota monax</i>																																												*	
<i>Martensia constant</i>	*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Marshallia graminifolia</i>											*																																		
<i>Marshallia obovata</i>																							*																						
<i>Matricaria panicarpa</i>	*										*																																		
<i>Matricaria obliqua</i>																																												*	
<i>Matricaria sp.</i>	*	*									*										*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Matricaria tuberosa</i>								*																																					
<i>Mayaca sabbatia</i>											*																																		
<i>Mayaca fluvialis</i>																																										*			
<i>Mayaca sp.</i>		*											*																																
<i>Mazus japonicus</i>													*																																
<i>Mazus sp.</i>																																					*								
<i>Meibomia acuminata</i>						*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Meibomia lenticulata</i>					*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Mediola virginiana</i>					*					*											*													*			*	*	*	*	*	*	*	*	*
<i>Medicago arabica</i>								*														*												*			*	*	*	*	*	*	*	*	*
<i>Medicago lupulina</i>								*																																					
<i>Medusula nitida</i>							*	*														*				*																			
<i>Megachile sp.</i>																											*																		
<i>Megachile rubicula</i>																																												*	
<i>Megalodactylus fasciata</i>									*																																				
<i>Megalodactylus heros</i>	*																																												
<i>Megalopyge opercularis</i>					*	*				*																			*																
<i>Megachasma sp.</i>																																												*	
<i>Megachasma yucatan</i>																									*																				
<i>Megala cymula</i>		*																																											
<i>Meloborus musculus</i>										*																																			
<i>Melampyrum lineare</i>																																	*												
<i>Melanaria macdonii</i>																										*																			
<i>Melanella exasperata</i>																				*												*												*	
<i>Melanella hali</i>								*																																				*	
<i>Melanella stygia</i>																																												*	
<i>Melanella vancouveria</i>																																												*	
<i>Melanerpes carolinus</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Melanerpes erythrocephalus</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Beaufort	Berkley	Charleston	Cherokee	Chesterfield	Cherokee	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina	
<i>Narmatoloma fasciculare</i>																										*																
<i>Najas guadalupensis</i>																					*																					*
<i>Najas minor</i>													*																													*
<i>Nandina domestica</i>													*																													
<i>Narcissus americanus</i>																																	*									
<i>Narcissus pseudo-narcissus</i>							*																																			
<i>Narcissus</i> sp.							*	*																																		
<i>Narcissus tazetta</i> s. <i>poeticus</i>							*																																			
<i>Nerocaryophus bicrucis</i>																									*																	
<i>Necturus punctatus</i>																									*																	
<i>Nepenthes hirsutissima</i>								+																																		
<i>Nelumbo lutea</i>							*																																			
<i>Nemacystus</i> sp.									*																																	
<i>Nemognatha plazata</i>																					*																					
<i>Nemophila microcalyx</i>		*																													*											
<i>Nemotaxis elegans</i>		*																																								
<i>Nesocoryphus</i> sp.																									*																	
<i>Nesocoryphus rufus</i>		*																							*																	
<i>Nesomypha areolata</i>																																*										
<i>Nephelax mitchelli</i>																																										
<i>Nesocena arabica</i>		*																	*																							*
<i>Nesocena domiciliorum</i>		*							*	*		*																														
<i>Nesocena lentii</i>						*				*												*																				
<i>Nesocena</i> sp.		*																							*																	
<i>Nephila clavipes</i>								*																																		
<i>Nephrolepis helvetica</i>																									*								*		*							
<i>Nerodia erythrogaster</i>																										*			*				*			*						
<i>Nerodia fasciata</i>					*					*	*	*							*			*															*					
<i>Nerodia sipedon</i>													*																													
<i>Nerodia taxipilota</i>												*																														
<i>Nestronia umbellata</i>																									*										*							
<i>Nesotriton floccus</i>																																				*						
<i>Nesotriton minus</i>																			*																							
<i>Nesotriton</i> sp.																			*																							
<i>Nesara viridula</i>					*		*																																			
<i>Nicrophorus</i> sp.																																		*								
<i>Nigrosia serricornis</i>																																		*								
<i>Nodonota</i> sp.																									*																	
<i>Nodonota trilinea</i>																																										*
<i>Nuctia limula</i>								*																																		
<i>Nuctia ponderosa</i>																																										
<i>Normandina pulchella</i>	*																	*														*		*								

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Barnberg	Beaufort	Berkley	Charleston	Cherokee	Chesler	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Henry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McMerrick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina				
<i>Oliva savana</i>								•											•				♦																						
<i>Oliva sp.</i>								•																																					
<i>Olivella carolinae</i>																							♦																						
<i>Olivella mytica</i>																							♦																						
<i>Omalium sp.</i>																							•																						
<i>Omphalos americanus</i>																																		•											
<i>Oncideres cingulata</i>							•	•		•		•	•					•									•		•								•		•						
<i>Ondatra zibethicus</i>														•			•																				•								
<i>Oncosia senilis</i>	•	•	•		•	•								•								•	•										•		•							•			
<i>Ortholestes sp.</i>																																											•		
<i>Orthophagus hecate</i>								•				•												•																					
<i>Orthophagus janus</i>																								•																					
<i>Orthophagus orpheus</i>			•																																										
<i>Orthophagus orpheus orpheus</i>																																											•		
<i>Orthophagus sp.</i>											•																																		
<i>Orthophagus tuberculatus</i>																										•											•		•						
<i>Oodes amaroide</i>																										•																			
<i>Opographa atrata</i>									•																																•				
<i>Opographa bonplandii</i>																																						•							
<i>Opographa sp.</i>																							•																						
<i>Opheodrys aestivus</i>												•			•																							•							
<i>Ophissaurus sp.</i>							•																																						
<i>Oplismenus setarius</i>	•				•	•		•																	•											•									
<i>Opaturus formosus</i>																																		•											
<i>Opuntia compressa</i>	•			•	•	•	•	•		•	•	•	•	•	•	•	•	•		•	•			•	•	•	•	•	•	•					•	•	•	•	•	•					
<i>Opuntia drummondii</i>							•																				•																•		
<i>Opuntia sp.</i>								•																																					
<i>Orchelimum sp.</i>		•									•																																		
<i>Orchelimum valentini</i>		•																																											
<i>Orchelimum vulgare</i>						•																	•		•		•								•										
<i>Orchesia pilipes</i>								•																																					
<i>Orchis spectabilis</i>																																			•								•		
<i>Orchancha uniflora</i>																											•									•									
<i>Oreostium aquaticum</i>	•		•		•		•				•	•														•																			
<i>Oryphelicia pelidna</i>											•																																		
<i>Osmodacne atra</i>																																												•	
<i>Orthemis ferruginea</i>								•																																					
<i>Osmanthus americana</i>						•	•	•								•							•																						
<i>Osmorhiza claytonii</i>																																												•	
<i>Osmorhiza leightii</i>	•																																•				•						•		
<i>Osmunda cinnamomea</i>	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Osmunda regalis spectabilis</i>	•		•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Ostrea lawrenci</i>																							♦																						
<i>Ostrea sp.</i>																							♦																						
<i>Ostrya virginiana</i>	♦	♦					♦											♦								♦										♦	♦	♦	♦						
<i>Otus asio</i>								•																				•								•									
<i>Ovalipes ocellatus</i>								•																																					
<i>Owalia fusiformis</i>								•																																					
<i>Oxalis sp.</i>								•																																					
<i>Oxalis acetosella</i>																																									♦				
<i>Oxalis difformis</i>								♦																																					
<i>Oxalis florida</i>		♦													♦																														
<i>Oxalis grandis</i>																					♦												♦		♦										
<i>Oxalis sp.</i>																			♦																	♦	♦	♦	♦			♦			
<i>Oxalis violacea</i>																♦										♦						♦				♦									
<i>Oxyopsis sp.</i>																							•																						
<i>Oxydendrum arboreum</i>	♦	♦								♦	♦	♦				♦						♦					♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
<i>Oxypoda sp.</i>													•																																
<i>Oxypolis filiformis</i>																											♦																		
<i>Oxypolis rigidior</i>																						♦														♦						♦	♦		
<i>Oxypolis sp.</i>																											♦																		
<i>Oxypolis ternata</i>													♦																																
<i>Oxyperus femoralis</i>																																										•			
<i>Oxyperus sp.</i>																																													
<i>Oxytelus sp.</i>																									•																				
<i>Ozura jamaicensis</i>																									•																				
<i>Pachybrachis sp.</i>																											•																	•	
<i>Pachydiplax longipennis</i>		•						•	•	•					•		•						•	•			•	•	•	•	•	•	•	•	•										
<i>Pachyospora sp.</i>																																										♦			
<i>Pachypsilla venusta</i>				•																																							•		
<i>Pachypsilla vesiculosa</i>																																													
<i>Pachyschelus laevigatus</i>		•		•				•	•							•																									•				
<i>Pagurus pollicaris</i>									•																																				
<i>Pagurus sp.</i>									•																																				
<i>Paludus sp.</i>		•	•						•																																				
<i>Panax quinquefolium</i>																											♦									♦									
<i>Pandeleites hilaris</i>					•			•																																		•			
<i>Pandeleites sp.</i>																																													
<i>Pandion haliaetus</i>							•	•	•	•	•	•	•	•							•						•								•	•									
<i>Panellus stipticus</i>									•																																				
<i>Panicum amarum</i>								♦	♦												♦																								
<i>Panicum boseli</i>																																											♦		
<i>Panicum sp.</i>																																													
<i>Panicum verrucosum</i>													♦																																

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

	Abberville	Aiken	Altamonte	Anderson	Barnesburg	Barwell	Beaufort	Berkeley	Charleston	Cherokee	Cluster	Clusterville	Clemson	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Grovesville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina		
<i>Passalus floridanus</i>																																												
<i>Passalus</i> sp.											*																																	
<i>Passerculus sandwichensis</i>						*								*						*														*										
<i>Passerina ciris</i>								*																											*									
<i>Passerina cyanea</i>																																			*									
<i>Passiflora incarnata</i>	*					*			*	*					*				*	*	*	*						*		*				*		*		*						
<i>Passiflora lutea</i>		*				*			*									*					*								*				*	*	*	*	*		*			
<i>Pedicularis tomentosa</i>																												*								*								*
<i>Pedicularis involucrata</i>																											*																	
<i>Pecten brevis</i>																									*																			
<i>Pecten</i> sp.								*																*																				
<i>Pedicularis canadensis</i>															*													*						*										*
<i>Pedilus collaris</i>																																												*
<i>Pedilus</i> sp.																																												
<i>Pelecanus occidentalis</i>						*		*													*						*								*									
<i>Pelecinus polytarsus</i>																						*													*		*							
<i>Pelidnota</i> sp.									*																																			
<i>Pellaea atropurpurea</i>																																				*								
<i>Peltandra virginica</i>	*			*									*	*	*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Peltigera canina</i>									*												*						*							*	*	*	*	*	*	*	*	*	*	*
<i>Peltigera horizontalis</i>																					*						*		*					*	*	*	*	*	*	*	*	*	*	*
<i>Peltigera polydactyla</i>									*																		*		*					*	*	*	*	*	*	*	*	*	*	*
<i>Pelodytes dietrichi</i>								*																																				
<i>Pelodytes</i> <i>desideri</i> <i>immaculatus</i>																																		*										
<i>Pelodytes muticus</i>		*																																										
<i>Pelodytes apollinus</i>											*				*			*											*						*	*								
<i>Pelodytes scutellaris</i>					*		*		*								*												*						*	*								
<i>Pelodytes shermani</i>		*			*				*																				*															
<i>Pelodytes</i> sp.		*							*						*									*					*					*										
<i>Pemphigus popalicornis</i>											*																																	
<i>Pemphigus</i> <i>popalitransversus</i>									*																																			*
<i>Pemphigus</i> sp.																																			*									
<i>Periclyptus hollii</i>																		*																										
<i>Periclyptus</i> sp.																*																												
<i>Periplaneta fuliginosa</i>								*																																				
<i>Perithous brevis</i>	*	*				*	*	*	*					*										*			*					*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Peromyscus polionotus</i>														*																														
<i>Persea borbonia</i>	*	*			*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												
<i>Persea</i> sp.																																												

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkeley	Charleston	Cherokee	Chester	Chesfield	Charleston	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Union	York	Georgia	S. Carolina	
<i>Pertusaria globularis</i>												*													*																	
<i>Pertusaria leucostoma</i>						*								*				*				*	*		*				*	*		*										
<i>Pertusaria macevii</i>														*							*			*		*			*												*	*
<i>Pertusaria multipunctata</i>																								*																	*	
<i>Pertusaria multipunctoides</i>	*																	*			*			*		*			*	*		*		*								*
<i>Pertusaria neoscotica</i>								*										*					*						*	*		*		*								*
<i>Pertusaria ophthalmica</i>													*					*			*		*		*	*	*			*	*		*	*	*	*	*	*	*	*	*	*
<i>Pertusaria otifolia</i>	*					*	*	*	*	*	*		*	*				*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria paratuberculifera</i>	*					*	*	*	*	*	*		*	*				*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria plitiana</i>							*	*										*			*		*		*												*		*		*	*
<i>Pertusaria propinqua</i>						*	*	*		*			*					*			*		*		*								*	*	*	*	*	*	*	*	*	*
<i>Pertusaria pustulata</i>												*	*	*	*	*	*	*		*		*		*		*														*		*
<i>Pertusaria rubefacta</i>																		*		*		*		*		*																*
<i>Pertusaria sinuomexicana</i>	*					*	*	*		*			*	*				*	*	*	*	*	*	*	*	*	*			*	*		*	*	*	*	*	*	*	*	*	*
<i>Pertusaria sp.</i>						*	*	*		*		*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria subperiana</i>	*					*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria tetrathalmia</i>	*					*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria texana</i>	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria trachythallina</i>	*					*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria tuberculifera</i>						*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria valliculata</i>						*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria velata</i>													*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria waghornii</i>																		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pertusaria xanthodes</i>																		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Petalostemum pinnatum</i>																							*																			
<i>Petricula pholadiformis</i>																				*																						
<i>Peccilia viridans</i>	•	•	•																				•		•		•															
<i>Peila bado-confusa</i>																																										*
<i>Phacelia debia</i>			•																						*																	
<i>Phacelia debia georgiana</i>																																										*
<i>Phacelia sp.</i>																																										*
<i>Phacelia maculata</i>																									*																	
<i>Phaeonotum estriatum</i>																																										
<i>Phaeographina sp.</i>																																										
<i>Phaeographis dendroica</i>	*					*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									*	*	*	*	*	*	*
<i>Phaeographis erumpens</i>														*											*																	*
<i>Phaeographis paniciformis</i>						*																																				
<i>Phaeographis sp.</i>																							*																			
<i>Phaeophyscia adiantola</i>						*														*					*													*	*	*	*	*
<i>Phaeophyscia ciliata</i>						*			*	*									*		*		*	*	*	*	*								*	*	*	*	*	*	*	
<i>Phaeophyscia imbricata</i>						*			*	*								*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Phaeophyscia mastilloides</i>						*			*	*									*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Scientific Name Index

[illegible]

Scientific Name Index

	Abberville	Aiken	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampden	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marietta	McKinnick	Newberry	Oconee	Orangeburg	Piedmont	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Phyllophaga prunina</i>																																														
<i>Phyllophaga sp.</i>		•									•						•			•																								•	•	
<i>Philoporus rhodexanthus</i>																																												•		
<i>Phyllotachys aurca</i>													•																					•												
<i>Phyllotera caryae-venae</i>																																														
<i>Phyllotera caraeifoliae</i>																																														
<i>Phyllotera caryocera</i>																																														
<i>Phyllotera caryocaulis</i>																											•																			
<i>Phyllotera caryocemen</i>																						•																						•		
<i>Phyllotera globosa</i>																																												•		
<i>Phyllotera notabilis</i>											•																																			
<i>Physata fasciata</i>		•																																												
<i>Physata pennsylvanica</i>																																														
<i>Physalacia inflata</i>															•																															
<i>Physalis sp.</i>								•																																						
<i>Physalis virginiana virginiana</i>		•																																												
<i>Physalis viscosa maritima</i>								•																																						
<i>Physcia alpeja</i>		•						•	•			•		•		•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Physcia alba</i>		•																																										•		
<i>Physcia americana</i>		•						•	•	•	•		•	•					•	•	•	•	•	•	•																					
<i>Physcia ctenantha</i>						•																					•																			
<i>Physcia eriga</i>								•	•					•					•																											
<i>Physcia halei</i>																																												•		
<i>Physcia millegrana</i>		•				•	•	•	•	•	•		•	•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
<i>Physcia pseudospeciosa</i>											•																																			
<i>Physcia serotina</i>		•							•						•											•																				
<i>Physcia sp.</i>														•																																
<i>Physcia stellaris</i>											•														•																		•			
<i>Physcia subtilis</i>																				•																								•		
<i>Physciella ctenantha</i>															•					•																							•			
<i>Physconia detorsa</i>																				•							•																•			
<i>Physconia interossantha</i> <i>Physconia interossantha f. detorsa</i>						•						•	•							•							•		•												•	•	•	•	•	
<i>Physcia sp.</i>																																														
<i>Physocarpus opalifolius</i>																																												•		
<i>Piptalaca americana</i>		•	•	•	•	•	•	•	•	•	•				•					•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<i>Phylopus cerasicrura</i>																																														
<i>Picra shies</i>																																														
<i>Picra rabens</i>																																														
<i>Picoides borealis</i>												•														•																				
<i>Picoides pubescens</i>		•			•	•	•	•	•						•					•	•					•	•																	•	•	•
<i>Picoides villosus</i>									•						•																															

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Barnwell	Beaufort	Berkeley	Charleston	Cherokee	Chester	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgetown S. Carolina					
<i>Pantederia cordata</i>						*	*	*	*			*												*									*		*	*	*	*	*	*	*	*	*		
<i>Populus disjunctus</i>	*	*	*			*	*	*	*				*		*				*		*				*	*							*		*	*	*	*	*	*	*	*	*	*	
<i>Populus japonica</i>	*	*							*																							*	*		*		*	*	*	*	*	*	*	*	
<i>Populus deltoides</i>			*				*	*	*						*			*		*				*	*		*								*	*	*	*	*	*	*	*	*	*	
<i>Populus heterophylla</i>							*	*	*													*		*		*									*	*	*	*	*	*	*	*	*	*	
<i>Populus sp.</i>																																	*												
<i>Paria spisa</i>																																	*												
<i>Parina chlorotica</i>																		*																											
<i>Parina nucula</i>							*											*																*	*										
<i>Parina raphidosperma</i>					*																														*										
<i>Parina salicina</i>																																	*												
<i>Parina sp.</i>							*												*																										
<i>Parpidia albicaulescens</i>																		*																*										*	
<i>Parpidia macrocarpa</i>																									*																			*	
<i>Portulaca coronata</i>																									*																				
<i>Portulaca oleracea</i>							*																																						
<i>Persea carolina</i>						*	*	*									*																												
<i>Potamogeton diversifolius</i>						*	*	*																																				*	
<i>Potamogeton pulcher</i>					*		*	*																				*																	
<i>Potamogeton sp.</i>		*					*	*						*																															
<i>Potentilla canadensis</i>							*	*					*		*				*		*				*	*		*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Potentilla recta</i>																			*		*																							*	
<i>Potentilla simplex</i>																							*				*		*															*	
<i>Potentilla sp.</i>																							*			*		*																*	
<i>Prinoscaris vittata</i>																	*																												
<i>Prenanthes albidissima</i>																			*		*																							*	
<i>Prenanthes serpentina</i>																			*	*	*			*	*																			*	
<i>Prenanthes sp.</i>	*																		*		*			*	*								*	*	*	*	*	*	*	*	*	*	*	*	
<i>Prenanthes trifoliolata</i>																			*		*				*	*									*	*	*	*	*	*	*	*	*	*	
<i>Primocoryphus discoides</i>																																		*											
<i>Prinosus laticollis</i>												*																																	
<i>Prius sp.</i>																	*																												
<i>Prisciphilus tessellatus</i>				*			*	*											*		*																							*	
<i>Procyon leter</i>		*				*	*	*	*			*	*						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Progne subis</i>							*	*	*																																				
<i>Proteroplia marginata</i>														*																				*											
<i>Proteroplia scumaculata</i>												*																																	
<i>Protopia bicincta</i>	*									*		*																								*									
<i>Protopia sp.</i>																																												*	
<i>Proterpilina pectinata</i>							*	*											*		*							*																*	
<i>Protopocetus sp.</i>																																												*	
<i>Protonotaria citrea</i>	*						*	*				*	*												*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Scientific Name Index

	Abbeville	Allen	Altamaha	Anderson	Bamberg	Barnwell	Beaufort	Beckley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina			
<i>Praselia vulgaris</i>	*	*									*										*				*	*							*	*										*	
<i>Pranis americana</i>						*											*			*																		*	*						
<i>Pranis angustifolia</i>		*					*										*																					*	*						
<i>Pranis caroliniana</i>	*				*	*		*							*									*	*													*	*						
<i>Pranis pennsylvanica</i>																																													
<i>Pranis perfolia</i>																																						*							
<i>Pranis serotina</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pranis umbellata</i>																									*										*				*						
<i>Pranis virginiana</i>																																			*										
<i>Psithyrus sp.</i>																																			*										
<i>Pogonocherus herickii</i>																																			*										
<i>Pseudoceryx lecontei</i>							*																																						
<i>Pseudoceryx sp.</i>																												*																	
<i>Pseudoceryx tricolorata</i>																																		*											
<i>Pseudoceryx tricolorata</i>					*					*								*																							*	*			
<i>Pseudoceryx cincta</i>																																												*	*
<i>Pseudoceryx consocius</i>																											*								*								*	*	*
<i>Pseudoceryx sturgesii</i>																																							*				*	*	
<i>Pseudoceryphalaria aurata</i>																											*																	*	*
<i>Pseudoceryphalaria crecata</i>																											*																	*	*
<i>Pseudoceryphalaria sp.</i>																											*																		
<i>Pseudoleucanus placidus</i>											*																																		
<i>Pseudoparmelia placida</i>															*											*																			
<i>Pseudoparmelia amazonica</i>																										*																			
<i>Pseudoparmelia baltimorensis</i>																											*																	*	
<i>Pseudoparmelia caperata</i>																							*	*	*	*	*			*				*	*			*	*	*	*	*	*	*	
<i>Pseudoparmelia caroliniana</i>	*			*	*	*							*											*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Pseudoparmelia cressatiana</i>																										*															*				
<i>Pseudoparmelia sp.</i>									*																																				
<i>Pseudoparmelia sphacelata</i>																							*																						
<i>Pulsatum nudum</i>						*																																							
<i>Pulsilla fenestrata</i>									*																																				
<i>Psoralea psoraloides</i>																									*						*														
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																								*																					
<i>Psoralea psoraloides</i>																																													

Scientific Name Index

	Abbeville	Aiken	Altamaha	Anderson	Bamberg	Barwell	Beaufort	Berkley	Charleston	Charokee	Chester	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina			
<i>Pieris</i> sp.	*				*												*										*																		
<i>Pillularia capillare</i>	*												*								*																								
<i>Pilodactylis serricollis</i>																																												*	
<i>Pilodactylis</i> sp.																											*																		
<i>Pueraria lobata</i>																	*			*	*			*							*														
<i>Pulcherrimum caeruleum</i>	*																						*																						
<i>Punctelia appalachensis</i>												*										*																							
<i>Punctelia bollina</i>																						*																	*						
<i>Punctelia hypoleucites</i>																							*																						
<i>Punctelia rufata</i>	*	*					*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Punctelia subrufata</i>																																			*								*		
<i>Pycnanthemum flexuosum</i>																											*																		
<i>Pycnanthemum incanum</i>																																			*	*	*								
<i>Pycnanthemum muticum</i>																								*																					
<i>Pycnanthemum</i> sp.											*																*																		
<i>Pycnospora cinnabarinus</i>																																													
<i>Pycnospora divergens</i>																																													
<i>Pycnospora gentilis</i>																																													
<i>Pycnospora papillaria</i>											*	*					*		*		*		*		*		*		*		*				*		*								
<i>Pycnospora</i> sp.																																					*		*						
<i>Pycnopis pectoralis</i>																											*																		
<i>Pycnola cerisea</i>																							*																						
<i>Pycnola cruenta</i>					*	*	*	*				*	*			*		*		*		*		*		*									*										
<i>Pycnola larvigata</i>												*																										*							
<i>Pycnola mamillana</i>					*	*																													*		*								
<i>Pycnola nitida</i>											*					*																		*	*	*									
<i>Pycnola pseudobifolia</i>												</																																	

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Alton	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clermont	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Horry	Jasper	Kershaw	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina				
<i>Richardia scabra</i>	*											*														*																			
<i>Richardia sp.</i>																											*																		
<i>Rickenella fibula</i>																										*																			
<i>Rimelia cetrata</i>										*								*	*								*						*	*			*								
<i>Rimelia cetrata f. nonreticulata</i>																		*																							*				
<i>Rimelia reticulata</i>	*	*				*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Rimelia subulidiosa</i>								*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Rinodina milvina</i>																				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Rinodina roboris</i>								*						*								*																						*	
<i>Rinodina sophodes</i>						*								*																															
<i>Rinodina sp.</i>																										*																		*	
<i>Rinodina tephrosiph</i>																				*													*												
<i>Riparia riparis</i>		*																			*																								
<i>Rehnia biopida</i>	*																			*												*													
<i>Rehnia pseudo-acacia</i>	*										*									*													*	*							*	*	*	*	
<i>Rehnia sp.</i>												*									*																								
<i>Rorippa islandica</i>																												*																	
<i>Rosa carolina</i>										*											*					*						*	*												
<i>Rosa laevigata</i>									*												*					*																			
<i>Rosa micrantha</i>			*																		*																								
<i>Rosa multiflora</i>																				*																								*	
<i>Rosa palestris</i>			*					*						*						*												*	*												
<i>Rosa sp.</i>																		*			*																							*	
<i>Rubus argutus</i>		*									*										*												*												
<i>Rubus bifrons</i>																											*																		
<i>Rubus canadensis</i>																																												*	
<i>Rubus odoratus</i>																																												*	
<i>Rubus phenicolasius</i>																					*																							*	
<i>Rubus sp.</i>	*	*						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Rubus trivialis</i>							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Rudbeckia hirta</i>	*																						*																						
<i>Rudbeckia laciniata</i>																								*			*																	*	
<i>Rudbeckia sp.</i>																																		*										*	
<i>Ruellia carolinensis</i>	*								*												*											*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ruellia purshiana</i>																					*																		*						
<i>Ruellia sp.</i>																					*																								
<i>Rugilus dentatus</i>																																													
<i>Rumex acetosella</i>																				*																									
<i>Rumex crispus</i>			*																																										
<i>Rumex sp.</i>								*																																					
<i>Rumex verticillatus</i>								*																																					
<i>Ruppia maritima</i>												*																																	

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barrow	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina										
<i>Schizoporella errata</i>									•																																											
<i>Schrankia microphylla</i>		•							•		•										•			•									•		•																	
<i>Sciocolla lateralis</i>	•	•	•		•	•	•	•			•				•	•								•	•	•	•	•					•					•	•													
<i>Scirpus americanus</i>																																																				
<i>Scirpus cyperinus</i>		•						•										•					•	•	•						•		•																			
<i>Scirpus knerioides</i>		•																																																		
<i>Scirpus purpureus</i>																																				•																
<i>Scirpus robustus</i>													•																																							
<i>Scirpus setulosus</i>																																																				
<i>Scirpus sp.</i>		•																																																		
<i>Scirpus rufilobus</i>		•																																																		
<i>Scleria ciliata</i>																								•																												
<i>Scleria minor</i>																								•																												
<i>Scleria oligantha</i>	•	•																																																		
<i>Scleria sp.</i>								•									•																		•																	
<i>Scleria triglomerata</i>								•	•															•											•	•	•															
<i>Scleroderma brianus</i>									•																																											
<i>Scleroderma citrinum</i>																																																				
<i>Scleroderma passer</i>				•																																																
<i>Scleroderma sp.</i>																						•						•																								
<i>Scleroderma vulgare</i>																						•																														
<i>Scuticoporum umbrinum</i>								•																																												
<i>Scelopax minor</i>							•																																													
<i>Scember sp.</i>									•																																											
<i>Scrubularia marilandica</i>								•																																												
<i>Scrubleria ferata</i>	•																						•																													
<i>Scrubleria sp.</i>																																																				
<i>Scrubleria texensis</i>												•																																								

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Alben	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McClintock	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina
<i>Stewartia malacodendron</i>																							*															*			
<i>Stewartia ovata</i>																				*																					
<i>Silene fallaciosa</i>																										*															
<i>Silene virginica</i>																									*									*	*			*	*	*	*
<i>Silene aemula</i>		*						*	*															*		*								*	*						
<i>Silphulca setacea</i>		*								*			*			*		*		*				*		*		*								*		*			
<i>Strangalia bicolor</i>																																				*					
<i>Strangalia famelica</i>																																				*					
<i>Strangalia luteicornis</i>																																				*					
<i>Strategus antarus</i>													*							*																					
<i>Strategus sp.</i>																								*													*				
<i>Strix varia</i>		*												*										*													*			*	*
<i>Strobilomyces floccopus</i>	*																										*							*							*
<i>Strobilurus conigenoides</i>								*																												*					
<i>Strongylus sp.</i>		*																																							
<i>Strophostyles helvola</i>								*										*																							
<i>Stymon melinus</i>						*			*				*						*	*	*			*		*								*							
<i>Starnella magna</i>	*		*					*	*					*					*		*			*		*															
<i>Sturnus vulgaris</i>						*		*	*									*	*	*	*		*		*		*								*						
<i>Styrax antethus biflora</i>	*			*					*		*			*			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Styrax americana</i>				*				*			*			*			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Styrax grandifolia</i>	*					*		*		*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Styrax sp.</i>				*																																					
<i>Suaeda linearis</i>						*		*											*																						
<i>Scyllus americanus</i>																																				*				*	
<i>Scyllus granulatus</i>																																			*						
<i>Scyllus latus</i>																								*																*	
<i>Scyllus pictus</i>																										*			*											*	
<i>Santalus sp.</i>																																			*						
<i>Saphirellus sp.</i>								*																												*					
<i>Sax serotina</i>		*	*						*					*																					*		*			*	
<i>Schizolagus floridanus</i>		*																																		*			*		
<i>Schizolagus palustris</i>														*					*																						
<i>Schizolagus sp.</i>		*				*								*		*																									
<i>Sympetrum sp.</i>																												*										*			
<i>Sympetrum vicinum</i>																																									
<i>Symphoricarpos orbiculatus</i>																																		*	*				*		
<i>Symplocos tinctoria</i>		*			*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Synchlora sp.</i>																																			*						
<i>Syneca sp.</i>																																								*	
<i>Syrbula admirabilis</i>												*																									*			*	

Scientific Name Index

	Abbeville	Allen	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkeley	Charleston	Charokee	Chester	Chesterfield	Cherokee	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina
<i>Systema blanda</i>																																										
<i>Systema elongata</i>																																										
<i>Systema frontalis</i>																																										
<i>Systema tenellata</i>																																										
<i>Tachinus axillaris</i>																																										
<i>Tachinus pallipes</i>																																										
<i>Tachinus sp.</i>																																										
<i>Tachyscineta bicolor</i>																																										
<i>Tachys ephippigatus</i>																																										
<i>Tachyta nana inornata</i>																																										
<i>Tegulus gibbus</i>																																										
<i>Tegulus plebeius</i>																																										
<i>Talinum terrefolium</i>																																										
<i>Tamarix gallica</i>																																										
<i>Tamias striatus</i>																																										
<i>Tamiasciurus hudsonicus</i>																																										
<i>Tamiasciurus vulgaris</i>																																										
<i>Taphria albi-lanceae</i>																																										
<i>Taphroscopus sp.</i>																																										
<i>Tarachidia semilivata</i>																																										
<i>Taraxacum officinale</i>																																										
<i>Tarpela micans</i>																																										
<i>Taxodium ascendens</i>																																										
<i>Taxodium distichum</i>																																										
<i>Tredalia nodicaulis</i>																																										
<i>Triebasis byersi</i>																																										
<i>Tenebroides dubia</i>																																										
<i>Tenebroides latissilis</i>																																										

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Cheslerfield	Clarendon	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina				
<i>Typhelia racemosa</i>							*				*																																	*		
<i>Tecora virginiana</i>	*																										*							*											*	
<i>Toxostoma rufum</i>			*				*	*						*							*	*		*	*	*		*								*				*	*			*		
<i>Toxotes cinamompterus</i>																																*	*						*							
<i>Tracholopercum difforme</i>												*																				*	*						*							
<i>Trachycardium variegatum</i>								*																																						
<i>Tradescantia bractealis</i>	*																															*													*	
<i>Tradescantia rosea</i>	*												*	*									*																	*						
<i>Tradescantia rosea graminea</i>				*									*																																	
<i>Tradescantia</i> sp.																											*					*					*									
<i>Tradescantia subspora</i>																											*							*			*									
<i>Tradescantia virginiana</i>																											*																		*	*
<i>Triagia</i> sp.									*																											*										
<i>Triagia vires</i>													*																								*									
<i>Triagia arifolia</i>	*																				*																									
<i>Tramea carolina</i>	*	*						*	*												*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Tramea lucida</i>	*																																								*					
<i>Tramea</i> sp.								*	*										*								*		*																	
<i>Trameetes varicolor</i>	*	*																					*					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Tremella mesenterica</i>	*																						*									*					*				*					
<i>Tremellodendrea pallidum</i>																																							*							
<i>Tropocarpus setosae</i>	*														*													*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Trichaptum bifurmis</i>	*												*															*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Tricholium piper</i>							*																*			*	*																			
<i>Trichoderia albivittata</i>																																												*		
<i>Trichoglossum peglossum</i>																																*														
<i>Trichoglossum livatum</i>																																							*							
<i>Trichomanes bogotense</i>																																													*	
<i>Trichostema dichotomum</i>						*						*		*				*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Tridens flavus</i>						*								*													*											*	*	*	*	*	*	*	*	
<i>Trifolium arvense</i>																												*									*									
<i>Trifolium campestre</i>																																*														
<i>Trifolium carolinianum</i>																												*																		
<i>Trifolium dubium</i>																				*																										
<i>Trifolium pratense</i>																				*																										
<i>Trifolium repens</i>																																							*	*	*	*	*	*	*	
<i>Trigonopeltastes delta</i>							*	*	*																													*	*	*	*	*	*	*		
<i>Trigonopeltastes</i> sp.																																							*	*	*	*	*	*		
<i>Trigonostoma tenax</i>																																													*	
<i>Trilisa odoratissima</i>							*																																							
<i>Trilisa pasciculata</i>											*																																			
<i>Trilisa</i> sp.																							*																							

Scientific Name Index

	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkeley	Charleston	Cherokee	Claxton	Clemson	Darlington	Dillon	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia N. Carolina		
<i>Trillium catesbaei</i>																	*							*	*								*	*				*	*		
<i>Trillium cernuum</i>																								*	*								*						*		
<i>Trillium cuneatum</i>							*	*																								*							*	*	
<i>Trillium cuneatum lateum</i>																																*							*	*	
<i>Trillium discolor</i>																												*				*							*	*	
<i>Trillium erectum</i>																																*							*	*	
<i>Trillium erectum vaseyi</i>																	*																*						*	*	
<i>Trillium grandiflorum</i>																																							*	*	
<i>Trillium lanceolatum</i>																												*											*	*	
<i>Trillium sp.</i>																																							*	*	
<i>Trillium undulatum</i>																																		*					*	*	
<i>Trillium vaseyi</i>																																	*						*	*	
<i>Trimerotropis saxatilis</i>																																			*				*	*	
<i>Tringa flavipes</i>													*																*											*	*
<i>Tringa melanoleuca</i>							*		*				*																											*	*
<i>Triodopsis albobatrinx</i>						*																												*						*	*
<i>Triodopsis justidens</i>	*	*																																						*	*
<i>Trionyx sp.</i>																*																								*	*
<i>Tringa dieffenbachii</i>																										*														*	*
<i>Triphtera trianthophora</i>							*																																	*	*
<i>Triplolepis americana</i>											*																													*	*
<i>Triplolepis purpurea</i>							*																																	*	*
<i>Triplox macra</i>	*																																							*	*
<i>Triplox sp.</i>																																								*	*
<i>Triplox thoracica</i>																									*															*	*
<i>Tripsacum dactyloides</i>									*																															*	*
<i>Triptoma angulata</i>																									*															*	*
<i>Triptoma sp.</i>						*																																		*	*
<i>Triptoma thoracica</i>			*																																					*	*
<i>Trechelomopsis nufureoides</i>						*																																		*	*
<i>Trophodites aeden</i>								*									*						*												*				*	*	
<i>Trombidium sp.</i>									*								*							*										*					*	*	
<i>Tropisternus blatchleyi blatchleyi</i>										*															*										*				*	*	
<i>Tropisternus collaris striolatus</i>	*									*						*									*											*			*	*	
<i>Tropisternus lateralis nimbatus</i>						*				*																*									*			*	*		
<i>Tropisternus mixtus</i>							*								*																							*	*		
<i>Tropisternus nator</i>													*											*												*			*	*	
<i>Tropisternus quadristriatus quadristriatus</i>								*		*							*						*														*		*	*	
<i>Tropisternus striolatus</i>	*																																						*	*	
<i>Trux sp.</i>													*																										*	*	
<i>Trux tuberculatus</i>													*																										*	*	
<i>Trux tuberculatus</i>																							*																*	*	

Scientific Name Index

	Abbeville	Alben	Alendale	Anderson	Bamberg	Barwell	Beaufort	Berkley	Charleston	Cherokee	Chisler	Chesterfield	Clemson	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenville	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina						
<i>Trypetellum floridanum</i>								*					*										*	*													*												
<i>Trypetellum picearum</i> sp. nov.																						*	*																										
<i>Trypetellum mastoideum</i>	*							*	*	*								*				*	*												*	*	*	*	*	*									
<i>Trypetellum scutellum</i>								*				*						*					*	*										*	*			*	*	*	*	*							
<i>Trypetellum</i> sp.									*			*										*					*						*		*	*		*	*	*	*	*							
<i>Trypetellum tricolor</i>					*	*	*	*				*									*	*				*			*				*	*	*	*	*	*	*	*	*	*	*	*					
<i>Trypetellum virens</i>				*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
<i>Trypetellus politus</i>							*										*																	*	*	*	*	*	*	*	*	*	*	*	*	*			
<i>Typha canadensis</i>																					*													*	*	*	*	*	*	*	*	*	*	*	*	*			
<i>Typha caroliniana</i>																					*														*	*	*	*	*	*	*	*	*	*	*	*			
<i>Typha</i> sp.																																			*	*	*	*	*	*	*	*	*	*	*	*			
<i>Tuckermannopsis arvensis</i>																					*														*	*	*	*	*	*	*	*	*	*	*	*	*		
<i>Tuckermannopsis ciliaris</i>																					*													*	*	*	*	*	*	*	*	*	*	*	*	*	*		
<i>Tuckermannopsis fenestrata</i>												*									*														*	*	*	*	*	*	*	*	*	*	*	*	*		
<i>Tuckermannopsis subulata</i>	*											*									*													*	*	*	*	*	*	*	*	*	*	*	*	*	*		
<i>Tuckermannopsis pinastri</i>																																													*	*	*		
<i>Tuckermannopsis viridis</i>									*												*						*			*										*	*	*	*	*	*	*	*		
<i>Tylosoma simulans</i>																																			*	*	*	*	*	*	*	*	*	*	*	*	*		
<i>Turdus migratorius</i>							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Turdella peregrina</i>																																																	
<i>Turdella</i> sp.																																																	
<i>Turdops truncatus</i>								*												*																													
<i>Tylotus folius</i>																																				*	*	*	*	*	*	*	*	*	*	*	*		
<i>Tylotus gracilis</i>																					*																												
<i>Tylotus plumbeus folius</i>																											*												*	*	*	*	*	*	*	*	*		
<i>Typha angustifolia</i>									*																																								
<i>Typha latifolia</i>	*	*		*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Typocerus</i> sp.												*															*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Typocerus velutinus</i>																											*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Turanus turanus</i>								*																				*								*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Uca pugnator</i>									*											*																													
<i>Uca pugnax</i>								*												*																													
<i>Uca</i> sp.								*												*																													
<i>Ulmus alata</i>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ulmus americana</i>	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ulmus rubra</i>	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ulmus</i> sp.																																				*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ulmus imberbis</i>							*																														*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ulmus punctulata</i>						*									*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
<i>Ulmus lactuca</i>							*																																										
<i>Ulmus</i> sp.								*																																									
<i>Umbilicaria mammulata</i>																											*																		*	*	*	*	

Scientific Name Index

	Abbeville	Alben	Allendale	Anderson	Bamberg	Barwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Chesterfield	Claiborne	Colleton	Darlington	Dillon	Dorchester	Fairfield	Florence	Georgetown	Greenville	Greenwood	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	Georgia	N. Carolina						
<i>Umbra pygmaea</i>																								•																									
<i>Umbra latifolia</i>	•	•	•					•			•								•								•	•										•	•		•	•							
<i>Umbra laxa</i>			•				•	•							•									•				•																					
<i>Umbra paniculata</i>							•	•											•																														
<i>Umbra sessiliflora</i>	•	•					•	•																			•	•	•									•	•										
<i>Umbra sp.</i>																								•																									
<i>Vaccinium tenellum</i>								•							•									•				•												•									
<i>Vaccinium vacillans</i>	•																				•							•							•	•		•											
<i>Valerianella radiata</i>																											•																						
<i>Valpis sp.</i>																												•																					
<i>Vahata bicarinata</i>																														•																			
<i>Vanessa atalanta rubria</i>	•										•													•										•	•		•												
<i>Vanessa cardui</i>																													•																				
<i>Vanessa virginensis</i>						•		•	•								•												•						•	•		•	•										
<i>Veratrum parviflorum</i>																																													•				
<i>Veratrum sp.</i>																																													•				
<i>Veratrum viride</i>																																					•								•				
<i>Verbascum blattaria</i>	•																											•																					
<i>Verbascum thapsus</i>			•				•	•			•														•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•		
<i>Verbena brasiliensis</i>	•							•	•					•							•	•	•			•	•	•						•	•	•	•	•	•	•	•	•	•	•	•	•			
<i>Verbena scabra</i>								•																																									
<i>Verbena sp.</i>	•																																																
<i>Verbena urticifolia</i>																									•																				•				
<i>Verbena alternifolia</i>																																																	
<i>Verbena occidentalis</i>								•																																									
<i>Verbena sp.</i>	•										•																																						
<i>Verbena virginica</i>								•																																									
<i>Verbena virginica virginica</i>								•																													•												
<i>Vernicularia knorrii</i>								•																																									
<i>Vernivora peruviana</i>																																																	
<i>Vernonia acalis</i>												•																																					
<i>Vernonia angustifolia</i>																																																	
<i>Vernonia angustifolia angustifolia</i>																												•																					
<i>Vernonia glauca</i>																																																	
<i>Vernonia sp.</i>		•									•										•																												
<i>Vernonia arvensis</i>									•						•																																		
<i>Vernonia officinalis</i>																																																	
<i>Vernonia sp.</i>																																																	
<i>Vernonia bohemica</i>																																																	
<i>Vernonia areolata</i>	•										•														•			•																					
<i>Vernonia maculata</i>															•																																		
<i>Vernonia sp.</i>																																																	

Scientific Name Index

[illegible]

Scientific Name Index

	Abbeville	Alien	Allendale	Anderson	Bamberg	Barnwell	Beaufort	Berkley	Charleston	Cherokee	Chester	Custerfield	Clarendon	Colleton	Darlington	Dillon	Durchester	Fairfield	Florence	Georgetown	Greenville	Hampton	Harry	Jasper	Kershaw	Lancaster	Laurens	Lee	Lexington	Marlboro	McCormick	Newberry	Oconee	Orangeburg	Pickens	Richland	Spartanburg	Sumter	Union	York	N. Carolina
<i>Vitis</i> sp.	*									*		*																							*						
<i>Valerella</i> sp.																																				*					
<i>Valutifusus</i> types																																				*					
<i>Valpes</i> vulpes																																									*
<i>Wahlenbergia marginata</i>	*											*		*										*					*		*			*							
<i>Waltheimia fragaroides</i>																																*									
<i>Wilsonia canadensis</i>																																				*					
<i>Wilsonia citrina</i>	*																				*					*				*	*	*		*							*
<i>Winteria frutescens</i>	*			*	*	*	*					*	*	*					*		*		*						*									*			
<i>Winteria sinensis</i>	*			*	*	*	*									*			*																						
<i>Willdia papulifera</i>					*										*																										
<i>Willdia</i> sp.								*																		*															
<i>Willdiella floridana</i>					*	*	*					*		*		*		*		*		*		*		*															
<i>Woodia obtusa</i>																													*	*											
<i>Woodwardia areolata</i>	*			*	*	*	*	*				*	*	*	*			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Woodwardia virginica</i>				*	*	*	*	*				*	*								*	*		*		*												*			
<i>Wynnea americana</i>																											*						*								
<i>Xanthium strumarium</i>				*										*																				*							
<i>Xanthium strumarium globeratum</i>								*																																	
<i>Xanthochroa</i> sp.							*																																		
<i>Xanthoparmelia conspersa</i>																	*				*			*											*				*	*	*
<i>Xanthoparmelia plittii</i>		*																	*		*					*						*		*		*			*	*	*
<i>Xanthoparmelia</i> sp.											*																													*	*
<i>Xanthoparmelia subramigera</i>		*										*			*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Xanthoparmelia tasmanica</i>	*																									*							*		*		*			*	*
<i>Xanthocheila simplicissima</i>													*					*		*					*					*	*	*	*	*	*	*	*	*	*	*	*
<i>Xanthocheila candelaria</i>																								*		*								*		*		*		*	*
<i>Xeromphalina campanella</i>																								*										*		*		*		*	*
<i>Xestocia</i> sp.																							*													*		*		*	*
<i>Xylaria hypoxylon</i>																								*		*				*	*	*	*	*	*	*	*	*	*	*	*
<i>Xylaria polymorpha</i>																								*		*			*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Xyloborus inermis</i>																																		*		*		*		*	*
<i>Xylocopa</i> sp.																	*							*												*		*		*	*
<i>Xylocopa virginica</i>																							*													*		*		*	*
<i>Xylographa disseminata</i>																								*		*														*	*
<i>Xyleryctes jamaicensis</i>																																								*	*
<i>Xyris caroliniana</i>															*								*																	*	*
<i>Xyris flabelliformis</i>																						*																		*	*
<i>Xyris</i> sp.	*			*	*	*					*	*	*	*	*								*						*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Xysticus elegans</i>																											*		*	*	*	*	*	*	*	*	*	*	*	*	*
<i>Xysticus</i> sp.											*																														
<i>Yucca aloifolia</i>							*	*																																	

Scientific Name Index

[illegible]

SC Association of Naturalists (SCAN)

PO Box 5651, Columbia, SC 29250-5651

MINI MEMBERSHIP APPLICATION

SCAN is composed of a wide and diverse membership with many varied interests, but most of all, we are people who have an amateur or professional interest in the natural history of South Carolina. Members must be 18 years of age or older.

Dues are \$12.00 for individuals, with an extra \$5.00 for each additional member sharing the same newsletter. New members, who join after July 1st, only pay for half a year (\$6.00 for individuals/\$2.50 for each additional) since they will be rejoining in January. Membership runs on a calendar year.

Date: _____ County: _____

Amount Enclosed: _____ Ck #: _____

Name #1: _____

Name #2: _____

Name #3: _____

Address: _____

PO Box: _____

City: _____ State: _____ Zip: _____

Phone: (_____) _____

E-Mail: _____

SC Association of Naturalists (SCAN)

PO Box 5651, Columbia, SC 29250-5651

MINI MEMBERSHIP APPLICATION

SCAN is composed of a wide and diverse membership with many varied interests, but most of all, we are people who have an amateur or professional interest in the natural history of South Carolina. Members must be 18 years of age or older.

Dues are \$12.00 for individuals, with an extra \$5.00 for each additional member sharing the same newsletter. New members, who join after July 1st, only pay for half a year (\$6.00 for individuals/\$2.50 for each additional) since they will be rejoining in January. Membership runs on a calendar year.

Date: _____ County: _____

Amount Enclosed: _____ Ck #: _____

Name #1: _____

Name #2: _____

Name #3: _____

Address: _____

PO Box: _____

City: _____ State: _____ Zip: _____

Phone: (_____) _____

E-Mail: _____

MAIL IN AN APPLICATION AND JOIN THE FUN. LEARN ABOUT SOUTH CAROLINA'S NATURAL HISTORY.

SC Association of Naturalists (SCAN)

PO Box 5651, Columbia, SC 29250-5651

MINI MEMBERSHIP APPLICATION

SCAN is composed of a wide and diverse membership with many varied interests, but most of all, we are people who have an amateur or professional interest in the natural history of South Carolina. Members must be 18 years of age or older.

Dues are \$12.00 for individuals, with an extra \$5.00 for each additional member sharing the same newsletter. New members, who join after July 1st, only pay for half a year (\$6.00 for individuals/\$2.50 for each additional) since they will be rejoining in January. Membership runs on a calendar year.

Date: _____ County: _____

Amount Enclosed: _____ Ck #: _____

Name #1: _____

Name #2: _____

Name #3: _____

Address: _____

PO Box: _____

City: _____ State: _____ Zip: _____

Phone: (_____) _____

E-Mail: _____

SC Association of Naturalists (SCAN)

PO Box 5651, Columbia, SC 29250-5651

MINI MEMBERSHIP APPLICATION

SCAN is composed of a wide and diverse membership with many varied interests, but most of all, we are people who have an amateur or professional interest in the natural history of South Carolina. Members must be 18 years of age or older.

Dues are \$12.00 for individuals, with an extra \$5.00 for each additional member sharing the same newsletter. New members, who join after July 1st, only pay for half a year (\$6.00 for individuals/\$2.50 for each additional) since they will be rejoining in January. Membership runs on a calendar year.

Date: _____ County: _____

Amount Enclosed: _____ Ck #: _____

Name #1: _____

Name #2: _____

Name #3: _____

Address: _____

PO Box: _____

City: _____ State: _____ Zip: _____

Phone: (_____) _____

E-Mail: _____

Errata

Please make note of the following corrections to the preceding text:

Page vii: Should be "Edisto Beach State Park" (not Edisto State Park).

Page xii: Should be "Edisto Beach State Park" (not BeachPark)

Page 37: Caption to bottom photos should be "Hairy flower bees" (not Hairy bees).

Page 97: Footer should be "Caesars Head State Park" (not Eva Russell Caesars Head).

Page 104: The writing spider photograph is upside down.

Page 140: Photo caption should be "*Gelsemium sempervirens*" (not *sempervirens*).

Page 144: Golden-silk spider photograph is upside down.

Page 155: Footer should be "Burrells Ford" (not Burrells).

Pages 201 & 202: Black Rock Mountain State Park, GA. was an overnight trip. Dates should be May 21-22, 1994 (not May 21, 1994).

Page 211: Horse Pasture River, first paragraph, second line should be "property (not Property).

Pages 213 & 214: John Rock, Black Balsam Knob, and Cradle of Forestry. Both trips were overnights. First date should be "April 24-25, 1993" (not April 24, 1993).

Page 224: Bottom, left photo caption. Delete the second "female".

Page 233: Bottom, right photo caption should be "Grass-pink" (not Pink-grass).

Page 235: Bottom, left photo should be "*Dionaea muscipula*" (not *Dioneaea*).

Page 248: SC Department of Natural Resources (half way down the list) should be "Eva Russell Chandler" (not Russel).

Page 249: Address for SC Forestry Commission should be "5500 Broad River Road (not Broad).

Page 251: Kaston, should be "The Picture Key" (not Pictue).

Page 252: Niering, should be "Alfred Knopf" (not Knoft).

Page 283: Paragraph 2, line 1 should be "index are" (not indexare).



**From Abbeville to Yemassee,
SCANning South Carolina's
Natural History**

SCAN: The Second Ten Years
January 1986 - December 1995

This book may be useful to readers in several ways:

- ❖ If you have sites of particular interest, use the map and directions, along with the site description to plan a visit.
- ❖ If you have flora and fauna of particular interest use the index to plan a visit to sites where you're likely to see them, as SCAN did.
- ❖ Use the site descriptions and lists to find the flora and fauna that inhabit a particular area of the state, even your neck of the woods.
- ❖ For SCAN members, use the book for reminiscing about trips and people you remember with fondness.

SC Association of Naturalists
Post Office Box 5651
Columbia, SC 29250-5651

ISBN 0-9673974-0-5 \$23.95

