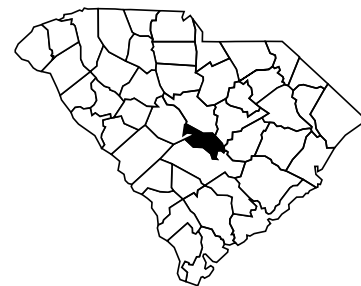


Calhoun County:

Bordered on the north by the Congaree/Santee river system, Calhoun County is predominantly agricultural. However, the area adjacent to the river system is a narrow flood plain overlooked by a high river bluff. This provides a diverse set of habitats that have not been much disturbed by the agriculture in the county. In addition, there are acres on top of the bluffs that were once farmed but are now returning to natural areas, providing a good example of old field succession. The wildflower population is abundant. These habitats give good opportunities to see birds, insects and other native animals of many species.



Sites Visited:

Congaree Bluffs Heritage Preserve
Wannamaker Nature Preserve

10/26/2002

03/24/2001

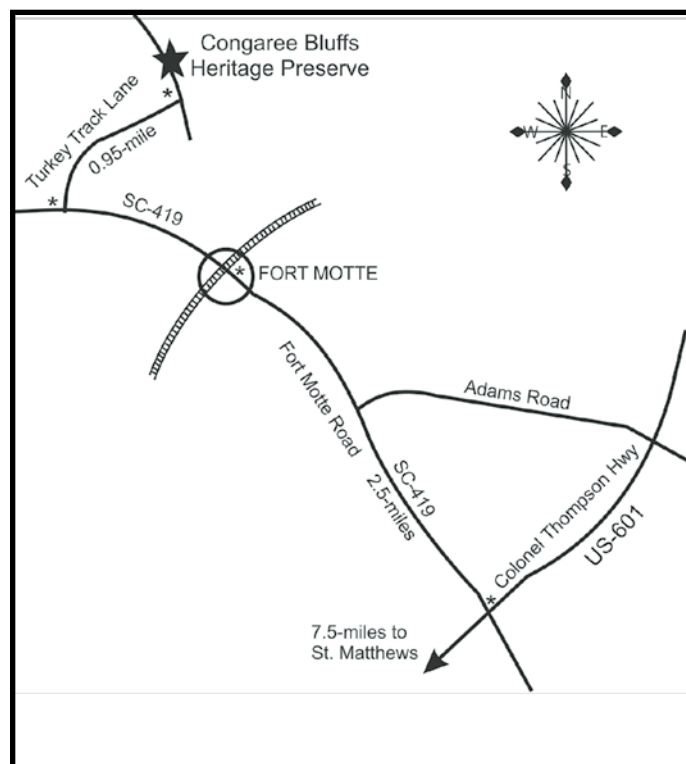
Congaree Bluffs Heritage Preserve

10/26/2002

With both a 140 foot high bluff and narrow flood plain habitat, Congaree Bluffs has a very rich and diverse plant community. Because the bluffs are undisturbed, they are home to at least 200 species of woody plants including American Beech, many oak and hickory species plus bottomland species. In addition, the view from the top of the bluff gives a look at Congaree National Park, to enhance the protected area and give a feeling of remoteness. On this visit there were many insects visible. To top off our visit the last vehicles to leave encountered

a nice Timber Rattlesnake. The occupants even got to hear it rattle.

Directions: The heritage preserve is accessed from SC 419. Coming north on US 601 from St. Matthews, turn left onto SC 419 after about 7.6 miles. It is about 2 miles to the railroad crossing. Coming south on US 601 turn right onto Adams Road (SSR9-80) about 2 miles after crossing the Congaree River. It ends at SC 419. On SC 419 cross a railroad track in Fort Motte at about 1.1 miles more. Continue straight for about 1 mile to Turkey Track Lane, an unpaved road on the right. Turn right onto Turkey Track for one mile, watch for the power lines that run to the left, and follow them about 0.25 miles to a white house, number 255. Turn left and proceed to either parking area for the heritage preserve.



Congaree Bluffs Heritage Preserve
Calhoun County, SC
October 26, 2002

FLORA

Southern Grapefern
Sceptridium bitermum
Northern Maidenhair Fern
Adiantum pedatum
Southern Lady Fern
Athyrium asplenoides
Christmas Fern
Polystichum acrostichoides
Resurrection Fern
Pleopeltis polypodioides
michauchiana
Shortleaf Pine
Pinus echinata
Loblolly Pine
Pinus taeda
Bald-cypress
Taxodium distichum

Giant Cane
Arundinaria gigantea
River Oats
Chasmanthium latifolium
Longleaf Spikegrass
Chasmanthium sessiliflorum
Spanish-moss
Tillandsia usneoides
Catbrier
Smilax bona-nox
Common Greenbrier
Smilax rotundifolia
Jackson-brier
Smilax smallii
Tulip-tree
Liriodendron tulipifera
Sassafras
Sassafras albidum
Little Brown Jug
Hexastylis arifolia
Coralbeads
Cocculus carolinus
Sycamore
Platanus occidentalis

occidentalis
Sweet Gum
Liquidambar styraciflua
Winged Elm
Ulmus alata
Slippery Elm
Ulmus rubra
Southern Hackberry
Celtis laevigata
Red Mulberry
Morus rubra
Wood-nettle
Laportea canadensis
Mockernut Hickory
Carya alba
Water Hickory
Carya aquatica
Pignut Hickory
Carya glabra
Common Wax-myrtle
Morella cerifera
American Beech
Fagus grandifolia
White Oak
Quercus alba
Swamp Chestnut Oak
Quercus michauxii
Water Oak
Quercus nigra
Cherrybark Oak
Quercus pagoda
Shumard Oak
Quercus shumardii shumardii
River Birch
Betula nigra
American Hornbeam
Carpinus caroliniana
Common Pokeweed
Phytolacca americana
Prickly-pear
Opuntia humifusa
Lamb's-quarters
Chenopodium album
Mexican-tea
Dysphania ambrosioides
Jumpseed
Persicaria virginiana
St. Andrew's Cross
Hypericum hypericoides
Arrowleaf Sida
Sida rhombifolia rhombifolia
Rosemary Sunrose
Crocanthemum rosmarinifolium
Pinweed
Lechea mucronata
Passionflower
Passiflora incarnata
Swamp Cottonwood
Populus heterophylla
Black Willow
Salix nigra
Mountain Laurel
Kalmia latifolia
Sourwood
Oxydendrum arboreum
Eastman's Azalea
Rhododendron eastmanii
Sparkleberry
Vaccinium arboreum
American Persimmon
Diospyros virginiana

Black Cherry
Prunus serotina serotina
Eastern Redbud
Cercis canadensis canadensis
Wild Indigo
Indigofera caroliniana
Eastern Sensitive-briar
Mimosa microphylla
Alternate-leaf Seedbox
Ludwigia alternifolia
Flowering Dogwood
Cornus florida
Hearts-a-burstin'-with-love
Euonymus americanus
Possum-haw
Ilex decidua decidua
American Holly
Ilex opaca opaca
Tung-oil Tree
Vernicia fordii
Supplejack
Berchemia scandens
Peppervine
Ampelopsis arborea
Raccoon-grape
Ampelopsis cordata
Virginia-creeper
Parthenocissus quinquefolia
Summer Grape
Vitis aestivalis aestivalis
Muscadine
Vitis rotundifolia rotundifolia
Box Elder
Acer negundo
Red Maple
Acer rubrum
Red Buckeye
Aesculus pavia pavia
Winged Sumac
Rhus copallinum
Eastern Poison Ivy
Toxicodendron radicans radicans
Chinaberry
Melia azedarach
Devil's-walking-stick
Aralia spinosa
Carolina Jessamine
Gelsemium sempervirens
Dodder
Cuscuta sp.
Red Morning-glory
Ipomoea coccinea
Brazilian Vervain
Verbena brasiliensis
Beautyberry
Callicarpa americana
Northern Horsebalm
Collinsonia canadensis
Perilla
Perilla frutescens
Azure Sage
Salvia azurea azurea
White Ash
Fraxinus americana
Woolly Mullein
Verbascum thapsus
Cross-vine
Bignonia capreolata
Trumpet-creeper
Campsis radicans

Southern Harebell
Campanula divaricata
Wahlenbergia
Wahlenbergia marginata
Japanese Honeysuckle
Lonicera japonica
Common Ragweed
Ambrosia artemisiifolia
Mistflower
Conoclinium coelestinum
Elephant's-foot
Elephantopus tomentosus
Common Dog-fennel
Eupatorium capillifolium
Coastal Dog-fennel
Eupatorium compositifolium
Rattlesnake-root
Prenanthes sp.
Fragrant Rabbit-tobacco
Pseudognaphalium obtusifolium
Bearsfoot
Smallanthus uvedalius
Heart-leaved Aster
Symphyotrichum cordifolium
Frost Aster
Symphyotrichum pilosum pilosum
Woodland Cup
Peziza sp.
Cinnabar-red Chanterelle
Cantharellus cinnabarinus
Velvet Bluespread
Pulcherrichium caeruleum
Turkey-tail
Trametes versicolor
Coker's Amanita
Amanita cokeri
Pore Mushroom
Boletus sp.
Earthstar Scleroderma
Scleroderma geaster

FAUNA

Giant Forest Snail (shell)
Mesodon normalis
Great Common Zonite (snail)
Mesomphix vulgatus
Crab-shaped Spiny-back
Gasteracantha cancriformis
Writing Spider (egg)
Argiope sp.
Orb-weaver
Neoscona domiciliorum
Marbled Orb-weaver
Araneus marmoreus
Arrowhead Spider
Verrucosa arenata
Carolina Wolf Spider
Hogna carolinensis
Lesser Pine Katydid
Orchelimum minor
Meadow Grasshopper
Orchelimum sp.
Short-winged Green
Grasshopper
Dichromorpha viridis
Differential Grasshopper
Melanoplus differentialis
Spur-throated Grasshopper
Melanoplus sp.

American Bird Grasshopper
Schistocerca americana
Broadtip Conehead Katydid
Neoconocephalus triops
Field Crickets
Gryllus pennsylvanicus
Carolina Mantis (egg)
Stagmomantis carolina
Frog hopper
Prosapia bicincta
Oak Gall
Cynips mirabilis
Common Eastern Velvet-ant
Dasymutilla occidentalis occidentalis
Red Imported Fire Ant
Solenopsis invicta
Hickory Peach Gall
Caryomyia persicoides
Wandering Glider
Pantala flavescens
Tiger Beetle
Cicindela sp.
Earth-boring Dung Beetle
Geotrupes egeriei
Dung Beetle
Phanaeus igneus
Multicolored Asian Lady Beetle
Harmonia axyridis
Hickory Girdler Beetle
Oncideres cingulata
Broad-nosed Weevil
Naupactus peregrinus
Eastern Tiger Swallowtail
Papilio glaucus
Cloudless Sulphur
Phoebis sennae eubule
Little Yellow (butterfly)
Eurema lisa
Sleepy Orange (butterfly)
Eurema nicippe
Gulf Fritillary
Agraulis vanillae
Variegated Fritillary
Euptoieta claudia
Seminole Texas Crescent
Phyciodes texana seminole
Mourning Cloak
Nymphalis antiopa
Common Buckeye
Junonia coenia
Southern Pearly-eye (butterfly)
Enodia portlandia
Long-tailed Skipper
Urbanus proteus
Common Checkered-skipper
Pyrgus communis
Hawaiian Beet Webworm Moth
Spoladea recurvalis
White-marked Tussock Moth (larva)
Orgyia leucostigma
Bullfrog
Lithobates catesbiana
Eastern Fence Lizard
Sceloporus undulatus
Timber Rattlesnake
Crotalus horridus
Great Blue Heron
Ardea herodias
Turkey Vulture
Cathartes aura

Black Vulture
Coragyps atratus
Northern Flicker
Colaptes auratus
Yellow-bellied Sapsucker
Sphyrapicus varius

Pileated Woodpecker
Dryocopus pileatus
Eastern Phoebe
Sayornis phoebe
American Crow
Corvus brachyrhynchos

Tufted Titmouse
Parus bicolor
Carolina Wren
Thryothorus ludovicianus
Golden-crowned Kinglet
Regulus satrapa

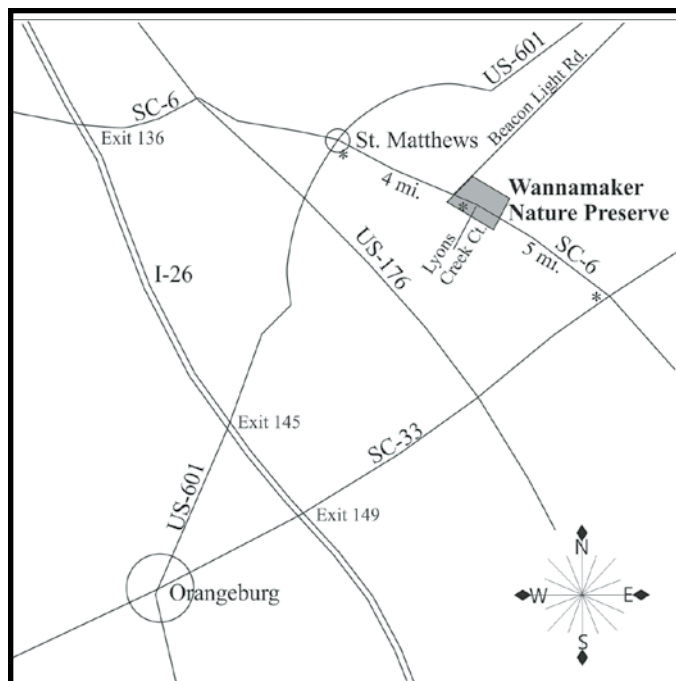
Northern Cardinal
Cardinalis cardinalis
White-throated Sparrow
Zonotrichia albicollis

Wannamaker Nature Preserve

03/24/2001

Through the foresight and generosity of the Wannamaker family, this biologically rich piece of land was donated to the National Audubon Society. It is currently administered through the Audubon's Beidler Forest Preserve. The preserve encompasses over 400 acres including old fields, upland forests, steep ravines, large and small streams and their floodplains and some seepage areas. The primary stream is Lyons Creek which has a long course through the property. The north-facing bluff along it hosts a wonderful diversity of plants, especially spring wild flowers. One uncommon tree found here is Umbrella Magnolia, *Magnolia tripetala*. There are thickets of Mountain Laurel, plus Golden Club, *Sagittaria* and *Impatiens* in the seepage areas.

Directions: From the intersection of US 601 and SC 6 in Saint Matthews, turn east on SC 6. In about 3 miles Beacon Light Road turns left. The preserve property starts here and continues parallel to SC 6 for about 1.2 miles. It will be on the left coming from St. Matthews. Currently there is access to developed trails at about 1 mile after you pass Beacon Light Road.



Wannamaker Nature Preserve
Calhoun County, SC
March 24, 2001

LICHENS

Graphis scripta
Graphis desquamescens
Phaeographis dendritica
Bacidia polychroa
Bacidia schweinitzii
Trapeliopsis flexuosa
Cladonia subtenuis
Cladonia subtenuis f. cinerea
Cladonia chlorophaea
Cladonia coniocraea
Cladonia cristatella
Cladonia didyma
Cladonia polycarpoides
Pycnothelia papillaria
Pertusaria texana
Pertusaria tetrathalamia
Maronea constans
Haematomma puniceum
Lecanora hybocarpa
Lecanora pulicaris

Lecanora caesiorubella subsp. prolifera
Bulbothrix goebelii
Candelaria fibrosa
Hypotrachyna livida
Parmelia horrescens
Parmotrema hypotropum
Parmotrema michauxianum
Parmotrema perforatum
Parmotrema tinctorum
Canoparmelia caroliniana
Rimelia reticulata
Usnea strigosa
Buellia imshaugiana
Heterodermia albicans
Heterodermia speciosa
Amandinea punctata
Arthonia pyrrhula
Trypethelium virens
Leproloma membranaceum
Chrysothrix candelaris

FLORA

Rattlesnake Fern
Botrypus virginianus

Interrupted Fern
Osmunda claytoniana
claytoniana
Bracken
Pteridium aquilinum
Netted Chain Fern
Woodwardia areolata
Ebony Spleenwort
Asplenium platyneuron
Southern Lady Fern
Athyrium asplenoides
Sensitive Fern
Onoclea sensibilis sensibilis
Christmas Fern
Polystichum acrostichoides
Resurrection Fern
Pleopeltis polypodioides
michauxiana
Loblolly Pine
Pinus taeda
Eastern Red Cedar
Juniperus virginiana virginiana
Arrowhead
Sagittaria sp.
Jack-in-the-pulpit
Arisaema triphyllum
Duckweed
Landoltia punctata
Golden Club
Orontium aquaticum

Green Arrow-arum
Peltandra virginica
Common Rush
Juncus effusus solutus
Wood-rush
Luzula acuminata
Sedge
Carex sp.
Giant Cane
Arundinaria gigantea
Spanish-moss
Tillandsia usneoides
False Garlic
Nothoscordum bivalve
Bellwort
Uvularia sp.
Catbrier
Smilax bona-nox
Bamboo-vine
Smilax laurifolia
Jackson-brier
Smilax smallii
Cranefly Orchid
Tipularia discolor
Tulip-tree
Liriodendron tulipifera
Umbrella Magnolia
Magnolia tripetala
Sweetbay
Magnolia virginiana

Sweet-shrub
Calycanthus floridus

Sassafras
Sassafras albidum

Lizard's-tail
Saururus cernuus

Little Brown Jug
Hexastylis arifolia

Windflower
Anemonella thalictroides

Kidney-leaf Buttercup
Ranunculus abortivus

Nandina
Nandina domestica

Bloodroot
Sanguinaria canadensis

Witch-hazel
Hamamelis virginiana

Sweet Gum
Liquidambar styraciflua

American Elm
Ulmus americana

Southern Hackberry
Celtis laevigata

Mockernut Hickory
Carya alba

Pignut Hickory
Carya glabra

Pecan
Carya illinoensis

Common Wax-myrtle
Morella cerifera

American Beech
Fagus grandifolia

White Oak
Quercus alba

Southern Red Oak
Quercus falcata

Laurel Oak
Quercus laurifolia

Water Oak
Quercus nigra

Black Oak
Quercus velutina

Tag Alder
Alnus serrulata

Common Chickweed
Stellaria media

St. Andrew's Cross
Hypericum hypericoides

Wild Pansy
Viola bicolor

Dooryard Violet
Viola sororia

Mouse-ear Cress
Arabidopsis thaliana

Hairy Bittercress
Cardamine hirsuta

Quaker Bittercress
Cardamine pensylvanica

Spotted Wintergreen
Chimaphila maculata

Mountain Laurel
Kalmia latifolia

Sourwood
Oxydendrum arboreum

Sparkleberry
Vaccinium arboreum

Smooth Highbush Blueberry
Vaccinium corymbosum

Climbing Hydrangea
Decumaria barbara

Hawthorn
Crataegus sp.

Wild Crab Apple
Malus angustifolia

Indian-strawberry
Potentilla indica

Old-field Five-fingers
Potentilla simplex

Chickasaw Plum
Prunus angustifolia angustifolia

Black Cherry
Prunus serotina serotina

Eastern Redbud
Cercis canadensis canadensis

Autumn Silverberry
Elaeagnus pungens

Flowering Dogwood
Cornus florida

Southern Swamp Dogwood
Cornus stricta

Hearts-a-burstin'-with-love
Euonymus americanus

American Holly
Ilex opaca opaca

Supplejack
Berchemia scandens

Muscadine
Vitis rotundifolia rotundifolia

Box Elder
Acer negundo

Red Maple
Acer rubrum

Red Buckeye
Aesculus pavia pavia

Eastern Poison Ivy
Toxicodendron radicans radicans

Trifoliate Orange
Citrus trifoliata

Spotted Touch-me-not
Impatiens capensis

Devil's-walking-stick
Aralia spinosa

Water-pennywort
Hydrocotyle sp.

Carolina Jessamine
Gelsemium sempervirens

Beautyberry
Callicarpa americana

Mountain-mint
Pycnanthemum incanum

Water-starwort
Callitriche heterophylla heterophylla

Hedge-hyssop
Gratiola virginiana

Corn Speedwell
Veronica arvensis

Chinese Privet
Ligustrum sinense

Cross-vine
Bignonia capreolata

Wahlenbergia
Wahlenbergia marginata

Cleavers
Galium aparine

Partridge-berry
Mitchella repens

Japanese Honeysuckle
Lonicera japonica

Coral Honeysuckle
Lonicera sempervirens

Common Elderberry
Sambucus canadensis

Arrow-wood
Viburnum dentatum

Southern Wild Raisin
Viburnum nudum

Common Ragweed
Ambrosia artemisiifolia

Green-and-gold
Chrysogonum virginianum

Veiny Hawkweed
Hieracium venosum

Butterweed
Packera glabella

FAUNA

Wolf Spider
Lycosa sp.

Comestid Harvestman
Vonones ornata

Mischievous Bird Grasshopper
Schistocerca damnifica

Red Imported Fire Ant
Solenopsis invicta

Black Carpenter Ant
Camponotus pennsylvanicus

Carpenter Bee
Xylocopa sp.

Seed-eating Ground Beetle
Amara cupreolata

Predacious Diving Beetle
Rhantus calidus

Water Scavenger Beetle
Cymbiodyta chamberlaini

Sap Beetle
Carpophilus floralis

Darkling Beetle
Uloa punctulata

Hickory Girdler Beetle
Oncideres cingulata

Pipevine Swallowtail
Battus philenor

Eastern Tiger Swallowtail
Papilio glaucus

Spicebush Swallowtail
Papilio troilus

Falcate Orangetip
Anthocharis midea

Sleepy Orange (butterfly)
Eurema nicippe

American Snout (butterfly)
Libytheana carinenta

Gemmed Satyr (butterfly)
Cyllopsis gemma

Silver-spotted Skipper
Epargyreus clarus

Juvenal's Duskywing
Erynnis juvenalis

Pine Woods Treefrog
Hyla femoralis

Squirrel Treefrog
Hyla squirella

Box Turtle (shell)
Terrapene carolina

Green Anole
Anolis carolinensis

Ground Skink
Scincella lateralis

Turkey Vulture
Cathartes aura

Red-shouldered Hawk
Buteo lineatus

Red-tailed Hawk
Buteo jamaicensis

Mourning Dove
Zenaida macroura

Barred Owl
Strix varia

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

Barn Swallow
Hirundo rustica

Blue Jay
Cyanocitta cristata

Tufted Titmouse
Parus bicolor

Carolina Chickadee
Parus carolinensis

Carolina Wren
Thryothorus ludovicianus

Ruby-crowned Kinglet
Regulus calendula

Blue-gray Gnatcatcher
Poliophtila caerulea

Hermit Thrush
Catharus guttatus

American Robin
Turdus migratorius

White-eyed Vireo
Vireo griseus

Northern Parula
Parula americana

Yellow-rumped Warbler
Dendroica coronata

Pine Warbler
Dendroica pinus

Louisiana Waterthrush
Seiurus motacilla

Northern Cardinal
Cardinalis cardinalis

Eastern Towhee
Pipilo erythrophthalmus

Fox Sparrow
Passerella iliaca

Red-winged Blackbird
Agelaius phoeniceus

American Goldfinch
Carduelis tristis

White-tailed Deer
Odocoileus virginianus