

# LMNGBR Long-term Species Survey

## LSU Hilltop Arboretum in Baton Rouge, Louisiana

August 2020

This is the third year of the species survey for the Louisiana Master Naturalists of Greater Baton Rouge (LMNGBR) and Hilltop Arboretum.

The first two survey years consisted of spring bioblitz results. However, due to COVID-19, we have changed the format from a bioblitz to a long-term species survey. The advantages to this are many, in that we can collect data from all seasons, keep a running total of species, visitors can contribute data, social distancing is easy to maintain, and outreach events can be planned when it is convenient.

The iNaturalist bioblitz project name was changed to Hilltop Arboretum Species Survey, and can be viewed at <https://www.inaturalist.org/projects/hilltop-arboretum-species-survey>. The project now includes all observations ever made at Hilltop Arboretum in iNaturalist, so this expands the report data to include a lot of nice plant observations that Matthew Herron posted in 2016, and an exciting American Alligator observation that Ken Bosso posted in 2017. Also, the iNaturalist project area was expanded slightly into the surrounding neighborhood because oversized accuracy circles were breaking over the bounding box, causing a lot of observations to not be included in the project.

In the past, just the bioblitz eBird data was included in the report, but it is now expanded to include all eBird data, which contains consistent year-round observations from Hilltop's top bird watcher, Lindsay Seely.

As far as the site, the grading is complete and the soil was not disturbed this year. The Cajun Prairie-inspired meadow has plenty of wildflowers, though it is not considered mature for a couple more years.

The meadow was still green and full of yellow Partridge Pea flowers even through the hottest parts of August:



## Thoughts on Results:

Social distancing left us without gatherings, however, the effort to make solo observations was very productive.

### BIRDS

With the combination of iNaturalist data and the addition of public eBird data, a total of 20 new species of birds were observed at Hilltop this year, bringing the running total to 77 species! The most birds observed at one time was a flock of 10 Chipping Sparrows. Visitors were excited to see that the Barred Owl pair had two owlets in May. The mulberry trees have consistently fed a lot of migrating waxwings, grosbeaks and buntings.

### ARTHROPODS

The number of insect and arachnid species doubled this year, most likely due to making observations in different seasons and the new meadow habitat that provides an amazing array of shelter, nectar, and host plants. A significant increase in lepidoptera was wonderful to see, because in previous years they were strangely lacking, and butterfly expert Dr. Israel suspected that the dragonflies were eating them. In fact, two species of butterflies made the top five “Most Observed Species” list this year, when they did not place at all in the past two years.

It is extraordinary how many different bee species are visiting the Partridge Pea extrafloral nectaries and the Winged Loosestrife flowers this summer. Though the bees are small and fast, making them very difficult to photograph!

Two rare species of insects were observed this year:

- A Northern Rotund-resin Bee, *Anthidiellum notatum*, was observed on Winged Loosestrife, the only observation of this bee in southern Louisiana on iNaturalist and BugGuide.
- *Xanthochroa lateralis*, a type of false blister beetle, was observed on a Bigleaf Magnolia. According to BugGuide, this species has been observed only a handful of times in the U.S. and it was observed twice in Louisiana, both times in April at Hilltop Arboretum in 2020 and 2010.



*Anthidiellum notatum*

In May, a moth sheet was set up overnight and resulted in the addition of 14 new moth species. It was very windy, so the results probably could have been better.

### INVASIVES

Two invasive species have expanded their footprint this year, including *Ardisia crenata* in the ravine near the plank walkway, Air Potato on the east fence line, plus a big Bushkiller outbreak along the majority of the east property line.



*Xanthochroa lateralis*

## **Thoughts for Next Year:**

We need to work on documenting more ant species, as we only have the Graceful Twig Ant so far.

Baton Rouge is participating in the City Nature Challenge 2021 (April 30 – May 3), which will be a good opportunity for outreach and making observations.

## **Fun Stuff:**

### Most Observed Species This Year in iNaturalist

Margined Leatherwing Beetle  
Cloudless Sulphur  
Monarch Butterfly  
Lemon Beebalm  
Common Slider

### Most Observed Species This Year in eBird

Northern Cardinal  
Blue Jay  
Carolina Wren  
Northern Mockingbird  
Carolina Chickadee  
Tufted Titmouse  
Eastern Bluebird  
Brown Thrasher  
Downy Woodpecker

### Most eBird Observations Contributed This Year

Lindsay Seely  
Harriet Pooler  
Daniel Goyer  
Jayne Willingham  
Cindy Thompson

### Most iNaturalist Observations Contributed This Year

Amber King  
Peggy Coates  
Mike Tilley  
Cindy Thompson  
Linda Medine

## Photos

A curated selection of observations made in iNaturalist this year:

### Nature in Motion



*A molting Brown Wasp Mantidfly by Elizabeth Jarrell; A leafcutter bee cutting a circle out of an American Buckwheat Vine leaf, by Amber King.*

### Wild Colors



*Banded Sphinx caterpillar, by Krista Adams; Paracantha culta fly, by Amber King.*

### Warblers We All Wish to See!



*Palm Warbler observed by Krista Adams; Tennessee Warbler observed by Natalie Poole.*

## Fueling Flight



*Monarch butterfly feeding on American Basketflower, by Cindy Thompson; Migrating Cedar Waxwings eating mulberries, by Amber King.*

## Lepidoptera Textures



*Wildflower petals camouflage a Wavy-lined Emerald moth caterpillar, and mating orange fuzzy Pink-striped Oakworm moths contrast against lichens on the bark of an oak tree, by Amber King.*

## White / Kite



*The Bigleaf Magnolia has the largest simple leaf and single flower of any native plant in North America, and this one was observed by Matthew Herron; A close-up of a Mississippi Kite calling, by Janie Braud.*

## Species Totals:

Includes data from:

iNaturalist October 2015 – August 2020

eBird 2018 - 2020

1,275 iNaturalist observations have been made at Hilltop Arboretum by 62 observers, encompassing 539 species.

Amphibians 5

Arthropods and Other Invertebrates 229

Birds iNaturalist & eBird 76

Fungi 10

Mammals 4

Plants 229

Protozoans 0

Ray-Finned Fishes 5

Reptiles 9

## Hilltop Property Overview:

Hilltop Arboretum is 14 acres of land in an urban area featuring hardwood forest on the natural levee of the Mississippi River with natural ravines, plus man-made meadows, wetlands and a pond. Geologically speaking, this area is loess pleistocene terrace.

## About Us:

LMNGBR's primary goal is to provide scientific, research-based education to the general public for a better understanding of the local natural ecosystems, and to promote conservation and preservation of native plant and animal life and habitats within the Greater Baton Rouge area. This aligns very well with the intent of Hilltop Arboretum, which is to remain a model of the natural landscape and for use as an outdoor laboratory. Mr. Emory Smith donated his Hilltop property to Louisiana State University in 1981 because of his love of the natural world and his belief in education.

## Running Account of Species Observed

### Amphibians

Bronze Frog	<i>Lithobates clamitans clamitans</i>
Cricket Frog	<i>Acris</i>
Green Tree Frog	<i>Hyla cinerea</i>
Gulf Coast Toad	<i>Incilius nebulifer</i>
Southern Leopard Frog	<i>Lithobates sphenoccephalus</i>

### Fungi & Lichens

Christmas Lichen	<i>Herpothallon rubrocinctum</i>
Dyer's Polypore	<i>Phaeolus schweinitzii</i>
Earth Star	Geastrales
Exidia	<i>Exidia</i>
Exobasidium	<i>Exobasidium</i>
Lecanorales	Lecanorales

Mottlegill  
Parasola  
Ringless Honey Mushroom  
Wood Ear

Panaeolus  
Parasola  
Desarmillaria tabescens  
Auricularia

### Fish

Black Bass  
Blackstripe Topminnow  
Bluegill  
Least Killifish  
Western Mosquito Fish

Micropterus  
Fundulus notatus  
Lepomis macrochirus  
Heterandria formosa  
Gambusia affinis

### Mammals

Eastern Gray Squirrel  
Eastern Red Bat  
Evening Bat  
Rat

Sciurus carolinensis  
Lasiurus borealis  
Nycticeius humeralis  
Murinae

### Reptiles

American Alligator  
Broadhead Skink  
Common Musk Turtle  
Green Anole  
Little Brown Skink  
Plain-bellied Watersnake  
Red-eared Slider  
Speckled Kingsnake  
Yellow-bellied Slider

Alligator mississippiensis  
Plestiodon laticeps  
Sternotherus odoratus  
Anolis carolinensis  
Scincella lateralis  
Nerodia erythrogaster  
Trachemys scripta elegans  
Lampropeltis holbrooki  
Trachemys scripta scripta

### Birds

Acadian Flycatcher  
American Crow  
American Goldfinch  
American Robin  
Anhinga  
Bald Eagle  
Baltimore Oriole  
Barred Owl  
Black Vulture  
Black-Bellied Whistling-Duck  
Blackburnian Warbler  
Blue Jay  
Blue-gray Gnatcatcher  
Blue-headed Vireo  
Broad-winged Hawk  
Brown Thrasher  
Brown-headed Cowbird  
Canada Goose

Empidonax virescens  
Corvus brachyrhynchos  
Spinus tristis  
Turdus migratorius  
Anhinga anhinga  
Haliaeetus leucocephalus  
Icterus galbula  
Strix varia  
Coragyps atratus  
Dendrocygna autumnalis  
Setophaga fusca  
Cyanocitta cristata  
Polioptila caerulea  
Vireo solitarius  
Buteo platypterus  
Toxostoma rufum  
Molothrus ater  
Branta canadensis

Carolina Chickadee  
Carolina Wren  
Cedar Waxwing  
Chimney Swift  
Chipping Sparrow  
Common Grackle  
Common Yellowthroat  
Cooper's Hawk  
Double-crested Cormorant  
Downy Woodpecker  
Eastern Bluebird  
Eastern Kingbird  
Eastern Phoebe  
Eastern Towhee  
Eastern Wood-Pee-wee  
European Starling  
Fish Crow  
Gray Catbird  
Great Blue Heron  
Great Crested Flycatcher  
Great Egret  
Hermit Thrush  
Hooded Warbler  
House Finch  
House Sparrow  
Inca Dove  
Indigo Bunting  
Kildeer  
Mississippi Kite  
Mourning Dove  
Neotropic Cormorant  
Northern Cardinal  
Northern Flicker  
Northern Mockingbird  
Orange-crowned Warbler  
Palm Warbler  
Pine Warbler  
Prothonotary Warbler  
Purple Martin  
Red-bellied Woodpecker  
Red-eyed Vireo  
Red-headed Woodpecker  
Red-shouldered Hawk  
Red-tailed Hawk  
Red-winged Blackbird  
Rose-breasted Grosbeak  
Ruby-crowned Kinglet  
Ruby-throated Hummingbird  
Snowy Egret  
Swainson's Thrush  
Tennessee Warbler  
Tufted Titmouse

Poecile carolinensis  
Thryothorus ludovicianus  
Bombycilla cedrorum  
Chaetura pelagica  
Spizella passerina  
Quiscalus quiscula  
Geothlypis trichas  
Accipiter cooperii  
Phalacrocorax auritus  
Picoides pubescens  
Sialia sialis  
Tyrannus tyrannus  
Sayornis phoebe  
Pipilo erythrophthalmus  
Contopus virens  
Sturnus vulgaris  
Corvus ossifragus  
Dumetella carolinensis  
Ardea herodias  
Myiarchus crinitus  
Ardea alba  
Catharus guttatus  
Setophaga citrina  
Haemorhous mexicanus  
Passer domesticus  
Columbina inca  
Passerina cyanea  
Charadrius vociferus  
Ictinia mississippiensis  
Zenaida macroura  
Phalacrocorax brasilianus  
Cardinalis cardinalis  
Colaptes auratus  
Mimus polyglottos  
Leiothlypis celata  
Setophaga palmarum  
Setophaga pinus  
Protonotaria citrea  
Progne subis  
Melanerpes carolinus  
Vireo olivaceus  
Melanerpes erythrocephalus  
Buteo lineatus  
Buteo jamaicensis  
Agelaius phoeniceus  
Pheucticus ludovicianus  
Regulus calendula  
Archilochus colubris  
Egretta thula  
Catharus ustulatus  
Oreothlypis peregrina  
Baeolophus bicolor



Turkey Vulture  
Wood Duck  
White-eyed Vireo  
White-throated Sparrow  
Yellow-bellied Sapsucker  
Yellow-billed Cuckoo  
Yellow-rumped Warbler

*Cathartes aura*  
*Aix sponsa*  
*Vireo griseus*  
*Zonotrichia albicollis*  
*Sphyrapicus varius*  
*Coccyzus americanus*  
*Setophaga coronata*

## Arthropods & Other Invertebrates

### Annelids

Aquatic Annelid  
Common Earthworm  
Leech

Annelida  
*Lumbricus terrestris*  
Hirudinea

### Arachnids

Arabesque Orbweaver  
Black-tailed Red Sheetweaver  
Common Hentz Jumping Spider  
Eastern Long-legged Cobweaver  
Elongate Stilt Spider  
Golden Silk Spider  
Jumping Spider  
Long-jawed Orbweavers  
Mabel Orchard Orbweaver  
Persimmon Leaf Blister Gall  
Six-spotted Fishing Spider  
Tropical Orbweaver  
White-banded Crab Spider  
Wolf spider

*Neoscona arabesca*  
*Florinda coccinea*  
*Hentzia palmarum*  
*Theridion frondeum*  
*Tetragnatha elongata*  
*Trichonephila clavipes*  
*Habronattus coecatus*  
Tetragnathidae  
*Leucauge argyrobapta*  
*Aceria theospyri*  
*Dolomedes triton*  
*Eriophora ravilla*  
*Misumenoides formosipes*  
*Tigrosa annexa*

### Beetles

Alligatorweed Flea Beetle  
Asian Lady Beetle  
Black Firefly  
Blister beetle  
Cottonwood Leaf Beetle  
Crawling Water Beetle  
Dark Flower Scarab  
Eastern Eyed Click Beetle  
False blister beetle  
Firefly  
Flat Oak Borer  
Golden-headed Weevil  
Horned Passalus Beetle  
Leaf beetle  
Margined Leatherwing Beetle  
Margined Shining Leaf Chafer

*Agasicles hygrophila*  
*Harmonia axyridis*  
*Lucidota atra*  
*Pyrota lineata*  
*Chrysomela scripta*  
*Peltodytes*  
*Euphoria sepulcralis*  
*Alaus oculatus*  
*Xanthochroa lateralis*  
*Pyropyga*  
*Smodicum cucujiforme*  
*Compsus auricephalus*  
*Odontotaenius disjunctus*  
*Colaspis*  
*Chauliognathus marginatus*  
*Callistethus marginatus*

Phyllophaga crenulata  
Pinhole bark borer beetle  
Predaceous diving beetle  
Rove beetle  
Scarab beetle  
Shiny Flea Beetle  
Six-spotted Flower Longhorn Beetle  
Small dung beetle  
Spotted Cucumber Beetle  
Tumbling flower beetle  
Varied Carpet Beetle  
Variegated Mud-loving Beetles  
Water Scavenging Beetles

Phyllophaga crenulata  
Platypodinae  
Dytiscidae  
Staphylinidae  
Phyllophaga crenulata  
Asphaera lustrans  
Strangalia sexnotata  
Aphodiinae  
Diabrotica undecimpunctata  
Falsomordellistena  
Anthrenus verbasci  
Heteroceridae  
Hydrophilidae

### **Blattodea**

Formosan subterranean termite  
Pennsylvania Wood Cockroach  
Small Yellow Texas Cockroach

Coptotermes formosanus  
Parcoblatta pennsylvanica  
Chorisoneura texensis

### **Caddisflies**

Long-horned Caddisflies

Leptoceridae

### **Crustaceans**

Aquatic Seed shrimp  
Red Swamp Crawfish  
Water fleas

Ostracoda  
Procambarus clarkii  
Daphniidae

### **Earwigs**

Ring-legged Earwig

Euborellia annulipes

### **Flatworms**

Aquatic Flatworm

Platyhelminthes

### **Flies**

Aphid fly  
Bicolored Plushback  
Common Flower Fly  
Common Lovebug  
Crane Flies  
Dark Ricefield Mosquito  
Elephant Mosquito  
Flesh fly  
Fruit fly  
Lauxaniid fly  
Limoniid crane fly  
Long-legged flies  
Long-legged flies  
Maize Calligrapher

Chamaemyiidae  
Palpada pusilla  
Syrphus ribesii  
Plecia nearctica  
Tipulomorpha  
Psorophora columbiae  
Toxorhynchites rutilus  
Sarcophagidae  
Paracantha culta  
Lauxaniidae  
Limoniidae  
Condylostylus  
Dolichopodidae  
Toxomerus politus

Margined Calligrapher  
Mosquito  
Mosquito  
Non-biting Midges  
Ragweed Gall Midge  
Robber fly  
Signal fly  
Soldier fly  
Southern House Mosquito  
Stilt-legged fly  
Thread-horn  
Vinegar and Fruit Flies

Toxomerus marginatus  
Culicidae  
Toxorhynchites rutilus  
Chironomidae  
Asphondylia ambrosiae  
Atomosia puella  
Rivellia  
Stratiomyidae  
Culex quinquefasciatus  
Rainieria antennaepes  
Nematocera  
Drosophilidae

**Hemiptera** (True Bugs, Hoppers, Aphids, and Allies)

Aphids  
Aphids  
Assassin Bugs  
Black Stink Bug  
Common Water Strider  
Coppery Leafhopper  
Eastern Bordered Plant Bug  
Eastern Leaf-footed Bug  
Florida Leaf-footed Bug  
Giant Water Bug  
Jagged Ambush Bug  
Large Milkweed Bug  
Largus Bug  
Leafhopper  
Leafhopper  
Orsilochides stictica  
Privet Leafhopper  
Red-shouldered Bug  
Resh Cicada  
Rice Stink Bug  
Shield-Backed Bug  
Spittlebug, Two-lined Spittlebug  
Texas Bow-legged Bug  
Treehopper  
Twice-stabbed Stink Bug  
Water Boatmen  
Water Strider  
Wheel Bug  
Yellow-striped Leafhopper  
Zelus cervicalis

Aphidoidea  
Uroleucon  
Reduviidae  
Proxys punctulatus  
Aquarius remigis  
Jikradia olitoria  
Largus succinctus  
Leptoglossus phyllopus  
Acanthocephala femorata  
Belostomatidae  
Phymata fasciata  
Oncopeltus fasciatus  
Largus succinctus  
Exitianus  
Sibovia occatoria  
Orsilochides stictica  
Fieberiella florii  
Jadera haematoloma  
Megatibicen resh  
Oebalus pugnax  
Homaemus  
Prosapia bicincta  
Hyalymenus tarsatus  
Membracoidea  
Cosmopepla lintneriana  
Corixidae  
Gerridae  
Arilus cristatus  
Sibovia occatoria  
Zelus cervicalis

## Hymenoptera (Ants, Bees, Wasps, and Sawflies)

### Ants

Graceful Twig Ant *Pseudomyrmex gracilis*

### Bees

American Bumble Bee *Bombus pensylvanicus*  
Common Eastern Bumble Bee *Bombus impatiens*  
Eastern Carpenter Bee *Xylocopa virginica*  
Hibiscus Turret Bee *Ptilothirix bombiformis*  
Leafcutter bee *Megachile*  
Northern Rotund-resin Bee *Anthidiellum notatum*  
Southern Carpenter Bee *Xylocopa micans*  
Two-spotted Long-horned Bee *Melissodes bimaculatus*  
Western Honey Bee *Apis mellifera*

### Wasps

Blue Mud-dauber Wasps *Chalybion*  
Braconid wasp *Braconidae*  
Common Thread-waisted Wasp *Ammophila procera*  
Crabronid wasp *Astata*  
Cuckoo wasp *Chrysis*  
Four-toothed Mason Wasp *Monobia quadridens*  
Fraternal Potter Wasp *Eumenes fraternus*  
Golden-reined Digger Wasp *Sphex habenus*  
Mud Daubers *Sceliphron*  
Oak-Apple Gall-Wasp *Amphibolips confluenta*  
*Polistes dorsalis*  
Southern Yellowjacket *Vespula squamosa*  
Spongy Oak Apple Gall Wasp *Amphibolips confluenta*  
Thread-waisted wasp *Eremnophila aureonotata*  
Yellow-legged Mud-dauber Wasp *Sceliphron caementarium*

## Lepidoptera (Butterflies and Moths)

### Butterflies

Clouded Skipper *Lerema accius*  
Cloudless Sulphur *Phoebis sennae*  
Common Buckeye *Junonia coenia*  
Common/White Checkered-Skipper Complex *Burnsius communis*  
Dun Skipper *Euphyes vestris*  
Eastern Tiger Swallowtail *Papilio glaucus*  
Fiery Skipper *Hylephila phyleus*  
Gray Hairstreak *Strymon melinus*  
Gulf Fritillary *Agraulis vanillae*  
Little Yellow *Pyrisitia lisa*

Monarch  
Pipevine Swallowtail  
Question Mark  
Red-banded Hairstreak  
Red-spotted Purple  
Silvery Checkerspot  
Southern Broken-Dash  
Southern Pearly-eye  
Southern Skipperling

*Danaus plexippus*  
*Battus philenor*  
*Polygonia interrogationis*  
*Calycopis cecrops*  
*Limenitis arthemis*  
*Chlosyne nycteis*  
*Wallengrenia otho*  
*Lethe portlandia*  
*Copaeodes minima*

### **Moths**

Afflicted Dagger  
Angulose Prominent Moth  
Bagworm Moths  
Banded Sphinx  
Black Wedge-spot  
Black-bordered Lemon Moth  
Black-marked Inga Moth  
Bluegrass Webworm Moth  
Blurry Chocolate Angle  
Brown-shaded Gray  
Celery Leaf-tier Moth  
Common Angle  
Common Buckeye  
Common Spragueia Moth  
Detracted Owlet  
Dot-lined Angle  
Dusky Groundling  
Exasperating Platynota Moth  
Fall Webworm Moth  
Fraternal Renia Moth  
Frisly Grass Tubeworm Moth  
Garden Tortrix  
Gem Moth  
Gray Archips  
Green Cutworm Moth  
Harnessed Tiger Moth  
Hollow-spotted Angle  
Imperial Moth  
Ipsilon Dart  
Isabella Tiger Moth  
Laudable Arches  
Laugher Moth  
Metallic Coleophora Moth  
Nessus Sphinx  
Orange Epipagis  
Orange-headed Epicallima Moth

*Acronicta afflicta*  
*Peridea angulosa*  
Psychidae  
*Eumorpha fasciatus*  
*Homophoberia apicosa*  
*Marimatha nigrofimbria*  
*Inga sparsiciliella*  
*Parapediasia teterrellus*  
*Macaria transitaria*  
*Iridopsis defectaria*  
*Udea rubigalis*  
*Macaria aemulataria*  
*Junonia coenia*  
*Spragueia leo*  
*Lesmone detrahens*  
*Psamatodes abydata*  
*Condica vecors*  
*Platynota exasperatana*  
*Hyphantria cunea*  
*Renia fraternalis*  
*Acrolophus mycetophagus*  
*Clepsis peritana*  
*Orthonama obstipata*  
*Archips grisea*  
*Anicla infecta*  
*Apantesis phalerata*  
*Digrammia gnophosaria*  
*Eacles imperialis*  
*Agrotis ipsilon*  
*Pyrrharctia isabella*  
*Lacinipolia laudabilis*  
*Charadra deridens*  
*Coleophora mayrella*  
*Amphion floridensis*  
*Epipagis fenestralis*  
*Epicallima argenticinctella*

Painted Lichen Moth	Hypoprepia fucosa
Pannaria Wave	Leptostales pannaria
Pink-striped Oakworm Moth	Anisota virginensis
Red-necked Peanutworm Moth	Stegasta bosqueella
Reticulated Decantha Moth	Decantha boreasella
Salt Marsh Moth	Estigmene acrea
Scale-feeding Snout	Laetilia coccidivora
Scarlet-winged Lichen Moth	Hypoprepia miniata
Smearred Dagger	Acronicta oblongata
Smoky Tetanolita Moth	Tetanolita mynesalis
Spanish Moth	Xanthopastis regnatrix
Streaked Eupragia	Eupragia hospita
Turnip Moth	Agrotis segetum
Variiegated Cutworm Moth	Peridroma saucia
Vetch Looper	Caenurgia chloropha
Virginian Tiger Moth	Spilosoma virginica
Waterlily Leafcutter Moth	Elophila oblitalis
Wavy-lined Emerald	Synchlora aerata
Wedgling Moth	Galgula partita
White-edged Phycitodes Moth	Phycitodes reliquellum
Woody Angle	Macaria aquiferaria
Yellow-collared Scape Moth	Cisseps fulvicollis

### **Mantises**

Carolina Mantis	Stagmomantis Carolina
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### **Mayflies**

Mayfly	Ephemeroptera
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### **Megaloptera** (Alderflies, Dobsonflies, and Fishflies)

Dobsonfly	Corydalinae
Spring Fishfly	Chauliodes rastricornis

### **Mollusks**

Common Land Snails and Slugs	Stylommatophora
Euthyneuran Gastropods	Euthyneura
Meadow Slug	Deroceras laeve
Ramshorn snails	Planorbidae
Smooth Land Slugs	Deroceras

### **Myriapods** (Millipedes and Centipedes)

Flat-backed Millipedes	Polydesmida
Greenhouse Millipede	Oxidus gracilis

## Neuroptera (Antlions, Lacewings, and Allies)

Brown Wasp Mantidfly	<i>Climaciella brunnea</i>
Red-lipped Green Lacewing	<i>Chrysoperla rufilabris</i>

## Odonata (Dragonflies and Damselflies)

Blue Dasher	<i>Pachydiplax longipennis</i>
Citrine Forktail	<i>Ischnura hastata</i>
Common Whitetail	<i>Plathemis lydia</i>
Eastern Amberwing	<i>Perithemis tenera</i>
Eastern Pondhawk	<i>Erythemis simplicicollis</i>
Fragile Forktail	<i>Ischnura posita</i>
Needham's Skimmer	<i>Libellula needhami</i>
Roseate Skimmer	<i>Orthemis ferruginea</i>

## Orthoptera (Grasshoppers, Crickets, and Katydid)

American Bird Grasshopper	<i>Schistocerca americana</i>
Black-legged Meadow Katydid	<i>Orchelimum nigripes</i>
Eastern Striped Cricket	<i>Miogryllus verticalis</i>
Fork-tailed Bush Katydid	<i>Scudderia furcata</i>
Green-Striped Grasshopper	<i>Chortophaga viridifasciata</i>
Lesser Meadow Katydid	<i>Conocephalus</i>
Obscure Bird Grasshopper	<i>Schistocerca obscura</i>
Olive-green Swamp Grasshopper	<i>Paroxya clavuligera</i>

## Springtails

Aquatic Springtails	<i>Collembola</i>
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## Plants & Trees (sorted by scientific name)

### Grasses

Little quaking-grass	<i>Briza minor</i>
Bermuda grass	<i>Cynodon dactylon</i>
Forked witchgrass	<i>Dichanthelium dichotomum microcarpon</i>
Velvet Panicum	<i>Dichanthelium scoparium</i>
Perennial Ryegrass	<i>Lolium perenne</i>
Vasey Grass	<i>Paspalum urvillei</i>

### Trees

Southern Sugar Maple	<i>Acer floridanum</i>
Red Maple	<i>Acer rubrum</i>
Red Buckeye	<i>Aesculus pavia</i>
Persian silk tree	<i>Albizia julibrissin</i>
Common Pawpaw	<i>Asimina triloba</i>
American hornbeam	<i>Carpinus caroliniana</i>

Sugar hackberry  
Eastern redbud  
White fringetree  
Trifoliolate orange  
Roughleaf dogwood  
Parsley hawthorn  
Green hawthorn  
Loquat  
American beech  
Carolina buckthorn  
Two-wing Silverbell  
American holly  
American sweetgum  
Tulip tree  
Southern magnolia  
Bigleaf magnolia  
Sweetbay magnolia  
Wax myrtle  
Red Mulberry  
American hophornbeam  
Persian ironwood  
  
Spruce pine  
Southern red oak  
Overcup oak  
Water oak  
Cherrybark oak  
Willow oak  
Sassafras  
Baldcypress  
Carolina basswood  
American elm  
Tung oil tree  
Hercules' club

*Celtis laevigata*  
*Cercis canadensis*  
*Chionanthus virginicus*  
*Citrus trifoliolate*  
*Cornus drummondii*  
*Crataegus marshallii*  
*Crataegus viridis*  
*Eriobotrya japonica*  
*Fagus grandifolia*  
*Frangula caroliniana*  
*Halesia diptera*  
*Ilex opaca*  
*Liquidambar styraciflua*  
*Liriodendron tulipifera*  
*Magnolia grandiflora*  
*Magnolia macrophylla*  
*Magnolia virginiana*  
*Morella cerifera*  
*Morus rubra*  
*Ostrya virginiana*  
*Parrotia persica*  
*Persea*  
*Pinus glabra*  
*Quercus falcata*  
*Quercus lyrata*  
*Quercus nigra*  
*Quercus pagoda*  
*Quercus phellos*  
*Sassafras albidum*  
*Taxodium distichum*  
*Tilia americana caroliniana*  
*Ulmus americana*  
*Vernicia fordii*  
*Zanthoxylum clava-herculis*

### **Vines**

Pepper vine  
Cross vine  
Cupseed  
Bushkiller  
Autumn clematis  
Carolina snailseed  
Air potato  
Wild yam  
Anglepod  
Virginia pepperweed

*Ampelopsis arborea*  
*Bignonia capreolata*  
*Calycocarpum lyonii*  
*Cayratia japonica*  
*Clematis terniflora*  
*Cocculus carolinus*  
*Dioscorea bulbifera*  
*Dioscorea villosa*  
*Gonolobus suberosus*  
*Lepidium virginicum*



Creeping cucumber  
Climbing hempvine  
Virginia creeper  
yellow passionflower  
Southern dewberry  
Lanceleaf Greenbrier  
Bristly greenbrier  
Poison ivy

Melothria pendula  
Mikania scandens  
Parthenocissus quinquefolia  
Passiflora lutea  
Rubus trivialis  
Smilax smallii  
Smilax tamnoides  
Toxicodendron radicans

## Plants & Shrubs

American water plantain  
Peruvian lilies  
Alligatorweed  
Common Ragweed

Devil's Walkingstick

Green Dragon

River Cane  
African Asparagus  
Cast-iron Plant

Leatherleaf Mahonia  
False Nettle

Redvein Abutilon  
American beautyberry  
Carolina sweetshrub  
Straggler Daisy  
White-edge Sedge  
Frank's Sedge  
Reflexed Sedge

Buttonbush  
Partridge pea

Bristle thistle  
Glorybowers  
Sweet Pepperbush  
Slender Wild Basil  
Taro  
Virginia Dayflower  
Blue mistflower  
Plains coreopsis  
Green Flatsedge

Agavoideae  
Alisma subcordatum  
Alstroemeria  
Alternanthera philoxeroides  
Ambrosia artemisiifolia  
Araceae  
Aralia spinosa  
Arecaceae  
Arisaema dracontium  
Aristolochiaceae  
Arundinaria gigantea  
Asparagus aethiopicus  
Aspidistra elatior  
Bambusoideae  
Berberis bealei  
Boehmeria cylindrica  
Bryophyta  
Callianthe picta  
Callicarpa americana  
Calycanthus floridus  
Calyptocarpus vialis  
Carex debilis  
Carex frankii  
Carex retroflexa  
Centaurea  
Cephalanthus occidentalis  
Chamaecrista fasciculata  
Cichorieae  
Cirsium horridulum  
Clerodendrum  
Clethra alnifolia  
Clinopodium gracile  
Colocasia esculenta  
Commelina virginica  
Conoclinium coelestinum  
Coreopsis tinctoria  
Cyperus virens

Ticktrefoils	Desmodium
Carolina ponysfoot	Dichondra carolinensis
Buttonweed	Diodia virginiana
Whitesnow	Drymaria cordata
Creeping burhead	Echinodorus cordifolius
Common Spike-rush	Eleocharis palustris
	Ericaceae
Philadelphia fleabane	Erigeron philadelphicus
Rattlesnake master	Eryngium yuccifolium
Coral Bean	Erythrina herbacea
Dogfennel	Eupatorium capillifolium
Late boneset	Eupatorium serotinum
Spotted spurge	Euphorbia maculata
Legumes	Fabaceae
Blanket Flowers	Gaillardia
Catchweed bedstraw	Galium aparine
Pennsylvania Everlasting	Gamochaeta pensylvanica
Spoon-Leaf Purple Everlasting	Gamochaeta purpurea
Huckleberries	Gaylussacia
Carolina crane's-bill	Geranium carolinianum
Ground ivy	Glechoma hederacea
	Gordonia
White ginger	Hedychium coronarium
Halberd-leaf Rosemallow	Hibiscus laevis
Swamp rose mallow	Hibiscus moscheutos
Oakleaf hydrangea	Hydrangea quercifolia
Water pennyworts	Hydrocotyle
Dollar weed	Hydrocotyle bonariensis
Largeleaf pennywort	Hydrocotyle bonariensis
Manyflower marshpennywort	Hydrocotyle umbellata
Dwarf St. John's Wort	Hypericum mutilum
Florida Anise	Illicium floridanum
	Ionoxalis
White Morning-glory	Ipomoea lacunosa
Leafy blue flag	Iris brevicaulis
Copper Iris	Iris fulva
Virginia sweetspire	Itea virginica
Hairy cluster-vine	Jacquemontia tamnifolia
Soft Rush	Juncus effusus
Needlepod Rush	Juncus scirpoides
King's-crown	Justicia carnea
Looseflower Water-willow	Justicia ovata
	Koelreuteria
Weedy dwarfdandelion	Krigia cespitosa
Tall blue lettuce	Lactuca biennis
Canada wild lettuce	Lactuca Canadensis
Woodland lettuce	Lactuca floridana

Common lantana  
Common duckweed  
Primrose-willows  
Red spider lily  
  
Japanese mazus  
Small melilot  
Lemon beebalm  
Heavenly bamboo  
Paperwhite  
Smallflower baby blue eyes  
American white waterlily  
  
Largeflower pink-sorrel  
Butterweed  
Swamp smartweed  
American pokeweed  
Greater plantain  
Dwarf plantain  
American basketflower  
Camphor-weed  
  
Pickerelweed  
Mock strawberry  
Carolina laurelcherry  
Herbwilliam  
Desert-chicory  
Hairy buttercup  
Maryland meadowbeauty  
Mountain Azalea  
Piedmont Azalea  
Smooth sumac  
Beaksedges  
Clasping coneflower  
Black-eyed Susan  
Cutleaf coneflower  
  
Sheep's sorrel  
Curly dock  
Dwarf Palmetto  
Procumbent Pearlwort  
Lanceleaf arrowhead  
Bull Tongue Arrowhead  
Broadleaf arrowhead  
Lyreleaf sage  
Black elderberry  
Lizard's tail

Lantana camara  
Lemna minor  
Ludwigia  
Lycoris radiata  
Lyonia  
Mazus pumilus  
Melilotus indicus  
Monarda citriodora  
Nandina domestica  
Narcissus papyraceus  
Nemophila aphylla  
Nymphaea odorata  
Ovales  
Oxalis debilis  
Packera glabella  
Persicaria hydropiperoides  
Phytolacca americana  
Plantago major  
Plantago virginica  
Plectocephalus americanus  
Pluchea camphorata  
Polypodiales  
Pontederia cordata  
Potentilla indica  
Prunus caroliniana  
Ptilimnium capillaceum  
Pyrrhopappus  
Ranunculus sardous  
Rhexia mariana  
Rhododendron canescens  
Rhododendron canescens  
Rhus glabra  
Rhynchospora  
Rudbeckia amplexicaulis  
Rudbeckia hirta  
Rudbeckia laciniata  
Ruellia  
Rumex acetosella  
Rumex crispus  
Sabal minor  
Sagina procumbens  
Sagittaria lancifolia  
Sagittaria lancifolia media  
Sagittaria latifolia  
Salvia lyrata  
Sambucus nigra  
Saururus cernuus

South American Skullcap	Scutellaria racemosa
Bigpod sesbania	Sesbania herbacea
Scarlet sesban	Sesbania punicea
Palmgrass	Setaria palmifolia
Field madder	Sherardia arvensis
Cuban jute	Sida rhombifolia
Annual Blue-eyed Grass	Sisyrinchium rosulatum
Bear's foot	Smallanthus uvedalia
American black nightshade	Solanum americanum
Carolina horsenettle	Solanum carolinense
Goldenrods	Solidago
Common soliva	Soliva sessilis
Common Sow-thistle	Sonchus oleraceus
Trailing daisy	Sphagneticola trilobata
Spring Ladies' Tresses	Spiranthes vernalis
	Squarrosae
Florida Hedgenettle	Stachys floridana
American Snowbell	Styrax americanus
Japanese snowbell	Styrax japonicus
Japanese storax	Styrax japonicus
Calico aster	Symphyotrichum lateriflorum
Aromatic Aster	Symphyotrichum oblongifolium
Sweetleaf	Symplocos tinctoria
Jewels of Opar	Talinum paniculatum
Common dandelion	Taraxacum officinale
Stately maiden fern	Thelypteris kunthii
	Tracheophyta
Small-leaf spiderwort	Tradescantia fluminensis
	Trifolieae
Red clover	Trifolium pratense
White clover	Trifolium repens
Reversed clover	Trifolium resupinatum
Mississippi River wakerobin	Trillium foetidissimum
Venus' looking-glass	Triodanis biflora
Clasping Venus's looking glass	Triodanis perfoliata
	Tripsacum
Southern cattail	Typha domingensis
Darrow's Blueberry	Vaccinium darrowii
Brazilian Vervain	Verbena brasiliensis
Frostweed	Verbesina virginica
Carolina Crownbeard	Verbesina walteri
Tall Ironweed	Vernonia gigantea
Bird's-eye speedwell	Veronica persica
Southern arrowwood	Viburnum dentatum
Rusty Blackhaw	Viburnum rufidulum
Slender vetch	Vicia ludoviciana
	Viola

Water Meal  
Rough cocklebur  
Oriental false hawksbeard

*Wolffia australiana*  
*Xanthium strumarium*  
*Youngia japonica*  
Zinnia