

Field Guide to the Southern Piedmont



An identification guide to over 700
common organisms in the Piedmont of
the Carolinas & Georgia

Jonathan J. Storm, Briget C. Doyle, Rachel V. Furman,
Julie M. Smoak, & Melissa A. Storm

How to Use this Field Guide

This field guide was created to help the general public identify common or distinctive organisms living in the Piedmont region of the Carolinas and Georgia. It was designed for use as an eBook on a tablet, but it will work on any electronic device. For optimal performance, download the pdf and open it within an eBook app such as iBooks on your tablet or smart phone, or save it to your computer. You will then be able to use the field guide anywhere, regardless of whether you have internet access.

To identify an organism, go to the Table of Contents and click on the picture of the appropriate group of organisms. The first and last page of each section (*e.g.* Birds) contain a link back to the Table of Contents. If the page has an arrow in the lower right corner, turn the page to see more species within that group. For most organisms, the picture will link to a website with pertinent information about that species. The field guide will be updated periodically on the website. The current edition is listed on the cover page. Enjoy!

Piedmont Counties (in green) of North Carolina, South Carolina, and Georgia

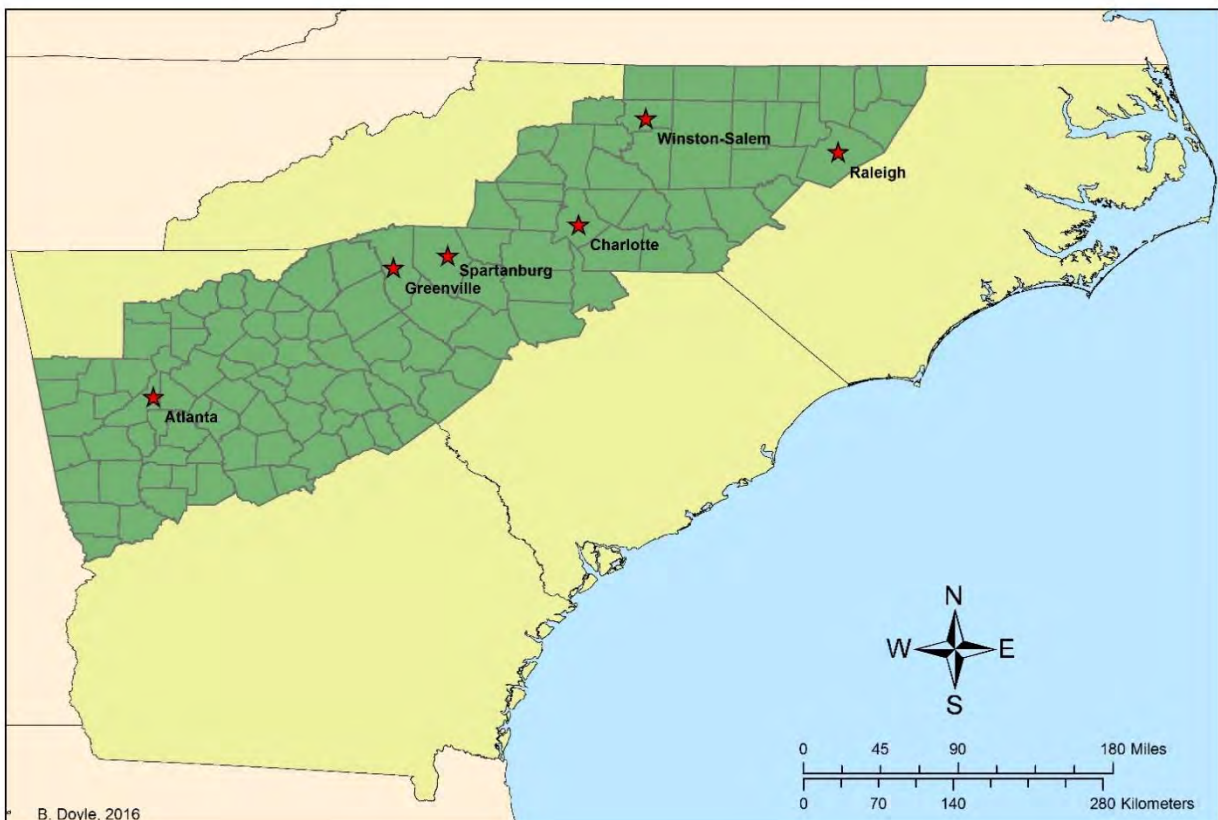


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Skulls & Bones



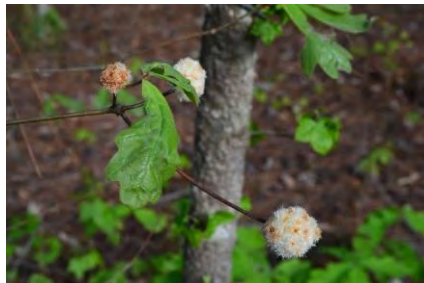
Slime Molds



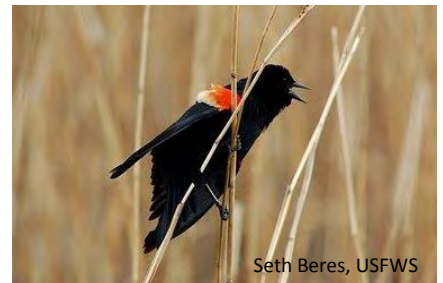
Minerals & Rocks



What's That?



What's That Sound?



Amphibians



[Bullfrog](#). Joy Marzolf



[Green Frog](#). Joy Marzolf



[Cope's Gray Treefrog](#). M. Storm



[Green Treefrog](#). J. Storm



[Fowler's Toad](#). J. Storm



[Northern Cricket Frog](#). Brian Gratwicke (CC BY 4.0)

Picture hyperlinks to information for Georgia and South Carolina, while the name hyperlinks to North Carolina

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Swipe for
more Amphibians





Southern Leopard Frog. J.D. Willson



Marbled Salamander. J. Storm



Spring Peeper. Joy Marzolf



Northern Dusky Salamander. J. Storm



Pickerel Frog. J. Storm



Red Salamander. J.D. Willson



Upland Chorus Frog. J.D. Wilson



Red-spotted Newt. (Terrestrial Red Eft) J. Storm





Red-spotted Newt. (Adult) Matt Schuler



Three-lined Salamander. J.D. Willson



Slimy Salamander. J. Storm



Two-lined Salamander. J. Storm



Spotted Salamander. J.D. Willson

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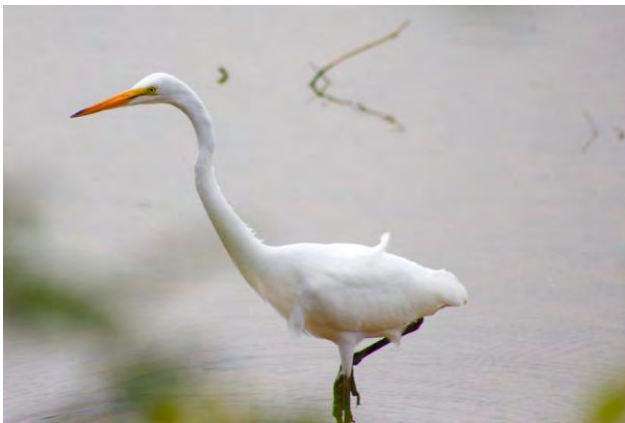
Birds



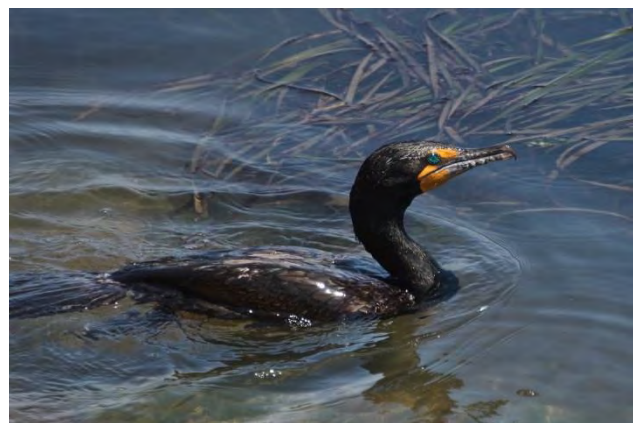
[Great Blue Heron](#). Brendan Lally (CC BY 4.0)



[Green Heron](#). J. Storm



[Great Egret](#). A. Krochmal



[Double-crested Cormorant](#). Linda Tanner (CC BY 4.0)



[Cattle Egret](#). Jim Bendon (CC BY-SA 4.0)



[Canada Goose](#). J. Storm

Click on a picture to learn more about that species

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Swipe for
more Birds





Wood Duck. David Mitchell (cc BY 4.0)



Green-winged Teal. Tom Koerner/USFWS



Mallard Duck. Jonathan Miske, cropped (cc BY-SA 4.0)



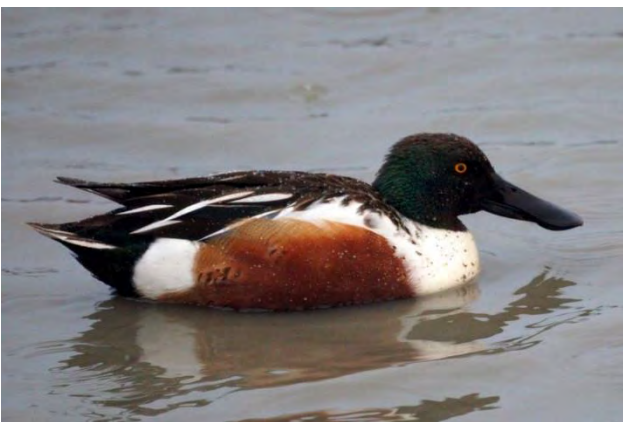
Canvasback. Jason Crotty (cc BY 4.0)



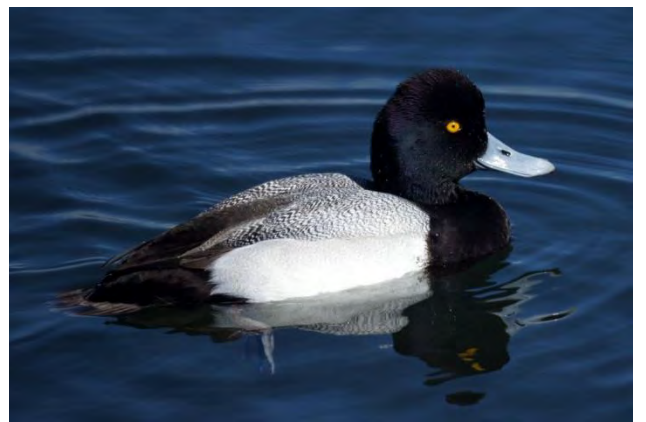
American Wigeon. Brendan Lally (cc BY 4.0)



Redhead. Neil Mishler USFWS (cc BY 4.0)



Northern Shoveler. Mike's Birds (cc BY-SA 4.0)



Lesser Scaup. Mike's Birds (cc BY-SA 4.0)





Ring-necked Duck. Ken and Nyetta (CC BY 4.0)



Black Vulture. Emmett Tullow, cropped (CC BY 4.0)



Bufflehead. Peter Massas (CC BY-SA 4.0)



Turkey Vulture. Don DeBold, cropped (CC BY 4.0)



Hooded Merganser. Mike's Birds, cropped (CC BY-SA 4.0)



Red-shouldered Hawk. David Slater (CC BY 4.0)



Ruddy Duck. Alex Galt USFWS Midwest (CC BY 4.0)



Red-tailed Hawk. Mark Mauno, cropped (CC BY 4.0)





Cooper's Hawk. devra (CC BY 4.0)



American Coot. Ingrid Taylor (CC BY 4.0)



Bald Eagle. USFWS (CC BY 4.0)



Ring-billed Gull. Adam Novey, cropped (CC BY 4.0)



American Kestrel. Gregory Smith CC BY-SA 4.0)



Killdeer. Rachel Kramer, cropped (CC BY 4.0)



Wild Turkey. Don McCullough (CC BY 4.0)



Rock Pigeon. J. Storm





Mourning Dove. Šarūnas Burdulis, cropped (CC BY 4.0)



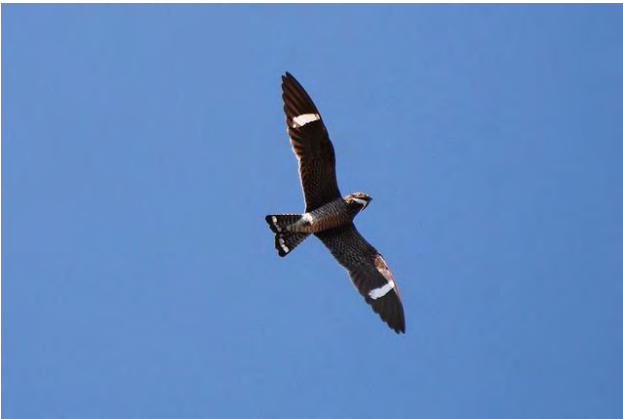
Ruby-throated Hummingbird. Francesco Varonesi (CC BY-SA 4.0)



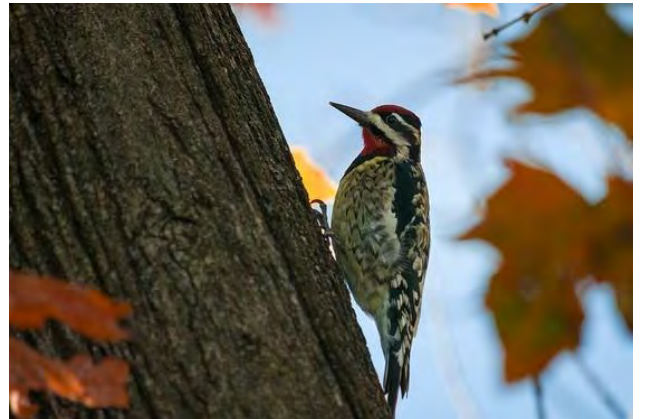
Barred Owl. Ralph Daily (CC BY 4.0)



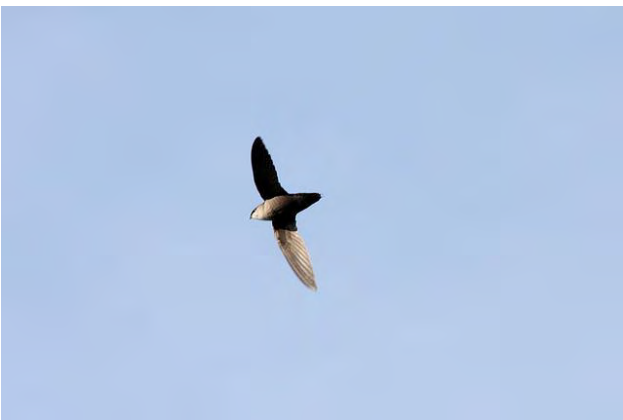
Belted Kingfisher. Manjith Kainickara (CC BY-SA 4.0)



Common Nighthawk. Don Faulkner (CC BY-SA 4.0)



Yellow-bellied Sapsucker. Kevin Faccenda, cropped (CC BY 4.0)



Chimney Swift. Dominic Sherony (CC BY-SA 4.0)



Red-bellied Woodpecker. Manjith Kainickara (CC BY 4.0)





Red-headed Woodpecker. Melissa McMasters (CC BY 4.0)



Eastern Kingbird. Alex Galt (CC BY 4.0)



Downy Woodpecker. Robert Taylor (CC BY 4.0)



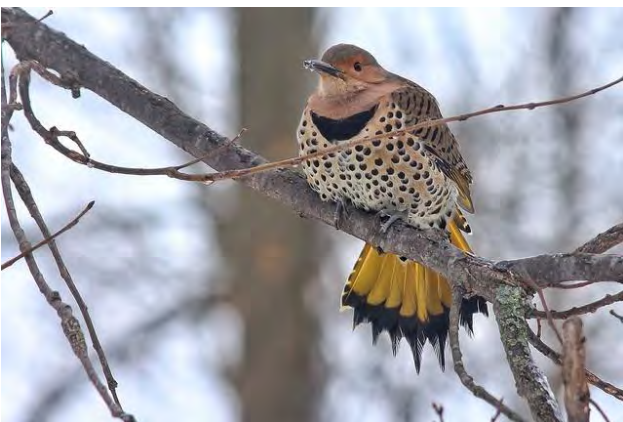
Blue Jay. Christopher Dietel



Pileated Woodpecker. K. Blake



American Crow. J. Storm



Northern Flicker. Mark Moschell (CC BY-NC 4.0)



Barn Swallow. Chumlee10 (CC BY-SA 4.0)





Cliff Swallow. Paul Hurtado, cropped (cc BY-SA 4.0)



White-breasted Nuthatch. Matt Schuler



Tree Swallow. John Benson (cc BY 4.0)



Red-breasted Nuthatch. David A. Mitchell (cc BY 4.0)



Carolina Chickadee. J. Storm



Brown-headed Nuthatch. US Forest Service (cc BY-SA 4.0)



Tufted Titmouse. Lee Boddie, cropped (cc BY 4.0)



Carolina Wren. Manjith Kainickara, cropped (cc BY 4.0)





Eastern Bluebird. John Benson (CC BY 4.0)



Brown Thrasher. Don Faulkner (CC BY 4.0)



American Robin. Fyn Kynd Photography, cropped (CC BY 4.0)



Cedar Waxwing. Ron Knight (CC BY 4.0)



Gray Catbird. Kevin Cole (CC BY 4.0)



European Starling. Charles Sharp (CC BY 4.0)



Northern Mockingbird. J. Storm



Common Yellowthroat. Tom Koerner/USFWS (CC BY 4.0)





Blue Grosbeak. Matt Schuler



Song Sparrow. Andrew C (CC BY 4.0)



Northern Cardinal. J. Storm



White-throated Sparrow. John Flannery (CC BY-SA 4.0)



Eastern Towhee. Rod Campbell, cropped (CC BY 4.0)



House Sparrow. Lip Kee Yap, cropped (CC BY 4.0)



Chipping Sparrow. Francesco Veronesi (CC BY-SA 4.0)



Dark-eyed Junco. K. Blake





[Red-winged Blackbird](#). Justin Boyles



[Brown-headed Cowbird](#). Kurt Bauschardt (CC BY 4.0)



[Eastern Meadowlark](#). Synchronism (CC BY 4.0)



[House Finch](#). Ken Bosma (CC BY 4.0)



[Common Grackle](#). Matt MacGillivray, cropped (CC BY 4.0)



[American Goldfinch](#). Christopher Dietel

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Types of Insects

Bees & Wasps



Beetles



Butterflies & Moths



Caterpillars & Aquatic Larvae



Dragonflies & Damselflies



Millipedes & Centipedes



Bugs, Cicadas, Leafhoppers



Other Insects



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Bees & Wasps



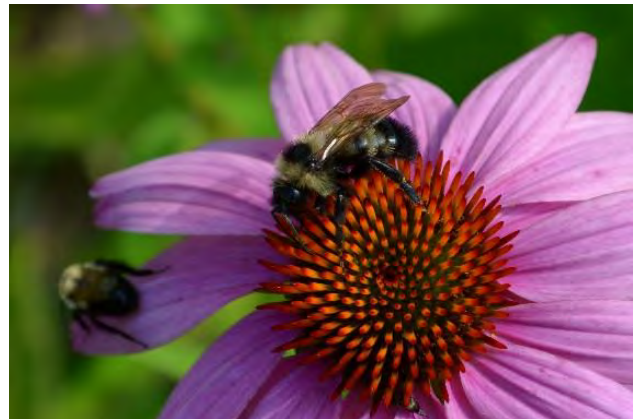
Bald-faced Hornet. D. Cappaert, MSU, Bugwood.org



Blue-winged Digger Wasp. J. Storm



Black and Yellow Mud Dauber. J.N. Dell, Bugwood.org



Bumblebee. J. Storm



Blue Mud Dauber. J. Storm



Double-banded Scoliid. J. Storm

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Swipe for
more Bees & Wasps





Eastern Carpenter Bee. J. Storm



Great Golden Digger Wasp. J. Storm



Eastern Cicada Killer. J. Storm



Honeybee. J. Storm



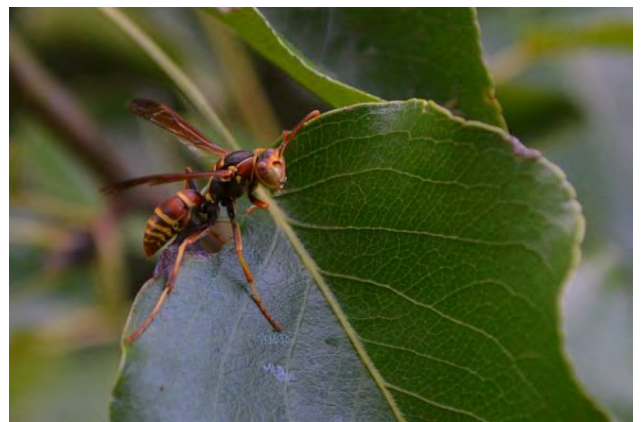
European Hornet. J. Baker, NC State, Bugwood.org



Ichneumon Wasp. J. Storm



Golden-faced Wasp. J. Storm



Paper Wasp. J. Storm





Paper Wasp. J. Storm



Sweat Bee. J. Storm



Potter Wasp. J. Yuschock, Bugwood.org



Thread-waisted Wasp. J. Storm



Red Velvet Ant. J. Storm



Yellowjacket. J. Storm



Sand Wasp. J. Storm

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Beetles



American Carrion Beetle. J. Storm



Big Dipper Firefly. J. Storm



Asian Lady Beetle. Jared Birk (CC BY-SA 3.0)



Caterpillar Hunter. PA Dept CNR-F, Bugwood.org, cropped



Bess Beetle. J. Storm



Click Beetle. J. Storm

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Swipe for
more Beetles





False Potato Beetle. J. Storm



Golden Tortoise Beetle. R. Glass



Dogbane Leaf Beetle. J. Storm



Grapevine Beetle. J. Storm



Eastern Hercules Beetle. J. Storm



Green June Beetle. J. Storm



Eyed Elater. J. Storm



Humpback Dung Beetle. J. Storm





Japanese Beetle. J. Storm



Reddish-brown Stag Beetle. J. Storm



Longhorn Beetle. J. Storm



Ridged Carrion Beetle. J. Storm



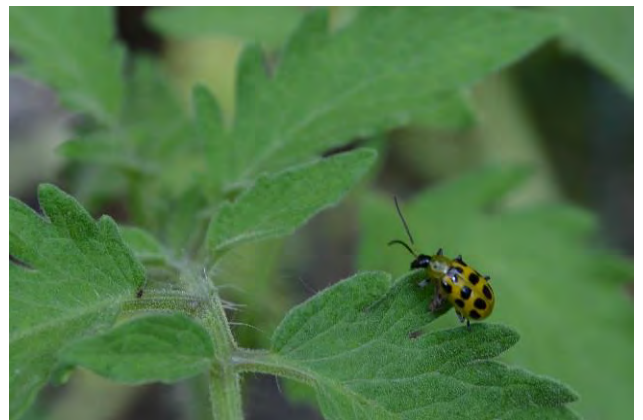
Northern Masked Chafer. J. Storm



Seven-spotted Lady Beetle. J. Storm



Red Milkweed Beetle. M. Storm



Spotted Cucumber Beetle. J. Storm





[Tiger Beetle, Bronzed](#). Giff Beaton



[Tiger Beetle, Six-Spotted](#). J. Storm



[White Oak Borer](#). M. Storm



[Whirligig Beetle](#). Jacob Enos CC BY-SA 4.0)

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Butterflies and Moths



Ailanthus Webworm Moth. J. Storm



Banded Tussock Moth. J. Storm



American Painted Lady. Tony Court (CC BY-SA 4.0)



Cabbage White. J. Storm



American Snout. Alan Schmierer (CCO 1.0)



Cecropia Silkmoth. Marvin Smith (CC BY-SA 4.0)

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more Butterflies





Clouded Sulfur. J. Berger, Bugwood.org



Falcate Orangetip. John Flannery (CC BY-SA 4.0)



Common Buckeye. J. Storm



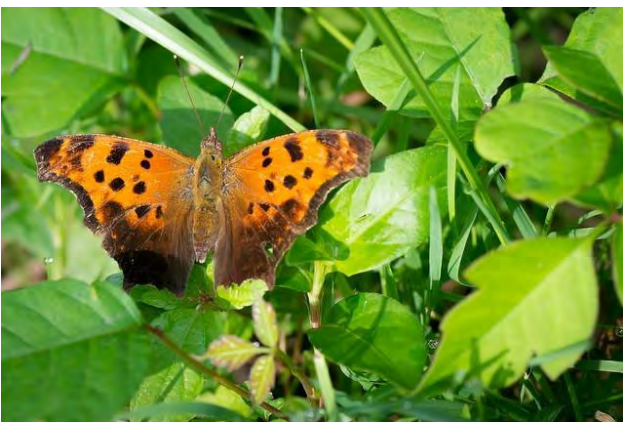
Fiery Skipper. J. Storm



Clymene Moth. J. Storm



Fritillary, Great Spangled. Wayne National Forest (CC BY 4.0)



Eastern Comma. Andrew C (CC BY 4.0)



Fritillary, Gulf. J. Storm





Fritillary, Variegated. J. Storm



Imperial Moth. J. Storm



Giant Leopard Moth. V. Wilkins, IU, Bugwood.org



Indian Meal Moth. J. Storm



Gray Hairstreak. Don Henise (CC BY 4.0)



Io Moth. Fyn Kynd Photography, cropped (CC BY 4.0)



Hackberry Butterfly. John Flannery (CC BY-SA 4.0)



Luna Moth. K. Blake





Monarch. USFWSmidwest (cc BY 4.0)



Pink-striped Oakworm Moth. J. Storm



Mourning Cloak. Andy Reago & Chrissy McClarren (cc BY 4.0)



Polyphemus Moth. R.F. Billings, TX For. Serv., Bugwood.org



Orange-tipped Oakworm Moth. J. Storm



Promethea Silkmoth. Andy Reago & Chrissy McClarren (cc BY 4.0)



Pearl Crescent. J. Storm



Question Mark. Kevin D. Arvin, Bugwood.org





Red Admiral. Kain Kalju, cropped (cc BY 4.0)



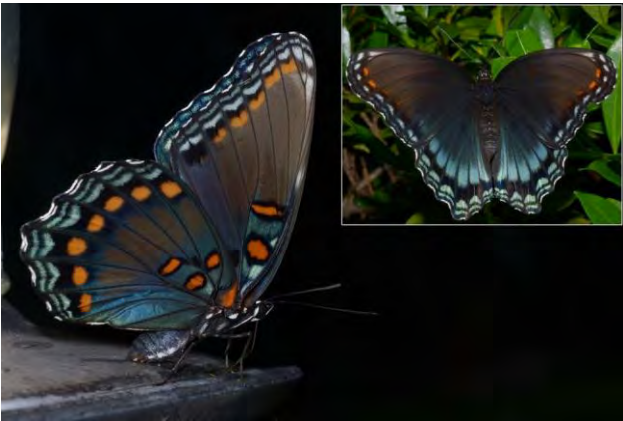
Royal Walnut Moth. T. Coleman, USDA FS, Bugwood.org



Red-bordered Emerald. J. Storm



Silver-spotted Skipper. J. Storm



Red-spotted Purple. J. Storm



Silvery Checkerspot. J. Storm



Rosy Maple Moth. J. Storm



Snowberry Clearwing. J. Storm





Smaller Parasa. J. Storm



Swallowtail, Eastern Tiger (Female). J. Storm



Spring Azure. J. Storm



Swallowtail, Eastern Tiger (Male). J. Storm



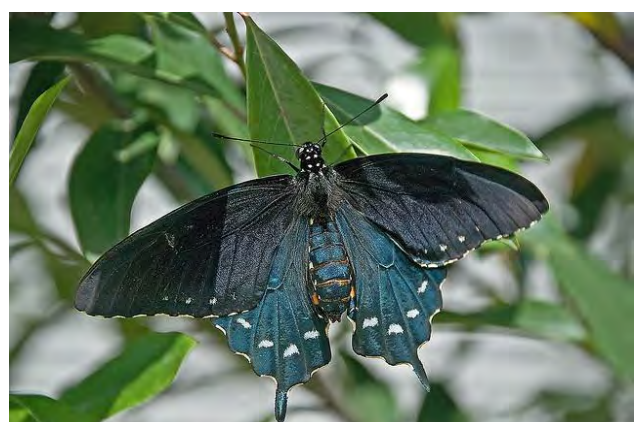
Swallowtail, Black. Jim, the Photographer (cc BY 4.0)



Swallowtail, Giant. J. Armstrong, U of Southern Cal, Bugwood.org



Swallowtail, Eastern Tiger (Female). J. Storm



Swallowtail, Pipevine. Anita Ritenour (cc BY 4.0)





Swallowtail, Spicebush. Rodney Campbell (cc BY 4.0)



Tuliptree Silkmoth. J. Storm



Swallowtail, Zebra. Andy Reago & Chrissy McClarren (cc BY 4.0)



Virgin Tiger Moth. J. Storm



The Hebrew. J. Storm



Virginian Tiger Moth. Andy Reago & Chrissy McClarren (cc BY 4.0)

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Caterpillars



Black Swallowtail. animantis (CC BY 4.0)



Eastern Tent Caterpillar. J. Storm



Catalpa Worm. J.H. Ghent, USDA FS, Bugwood.org (CC BY 3.0 US)



Eastern Tiger Swallowtail. S. McKeever, GA South. U, Bugwood.org



Cecropia Moth Caterpillar. Joy Marzolf



Giant Leopard Moth. J. Storm

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Swipe for
more Caterpillars





Green-striped Mapleworm. J. Storm



Monarch. Peter Wirtz, Bugwood.org



Hickory Horned Devil. Giff Beaton



Oakworm Moth. J. Storm



Imperial Moth. Kurt Komoda (CC BY-NC-ND 4.0)



Pipevine Swallowtail. David Hill cc BY 4.0)



Luna Moth. K. Blake



Polyphemus Moth. S. Katovich, USDA For. Serv., Bugwood.org





[Red Admiral](#). Sturgis McKeever, Georgia Southern U, Bugwood.org



[Tomato Hornworm](#). Hillbraith (PDM 1.0)



[Silver-spotted Skipper](#). Kara Jones (CC BY-NC 4.0)



[Yellow Woolly Bear](#). K. Blake



[Spicebush Swallowtail](#). Ansel Oommen, Bugwood.org



[Woolly Bear](#). Joy Marzolf



[Tobacco Hornworm](#). J. Storm

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Aquatic Insect Larvae



Caddisfly Larva in Case. Bob Henricks, cropped (CC BY 4.0)



Dobsonfly Larva. J. Storm



Crane fly Larva. J. Storm



Dragonfly Nymph. M. Storm



Damselfly Larva. Robb Hannawacker



Hellgrammite. M. Storm

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Mayfly. M. Storm

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Dragonflies & Damselflies



American Rubyspot (Male). Giff Beaton



Blue Dasher (Female). JD (CC BY 4.0)



Black Saddlebags (Male). Giff Beaton



Calico Pennant (Male). John Flannery (CC BY-SA 4.0)



Blue Dasher (Male). J. Storm



Carolina Saddlebags. Giff Beaton

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Swipe for
more Dragonflies





Common Whitetail (Male). J. Storm



Eastern Pondhawk (Male). J. Storm



Common Whitetail (Female). J. Storm



Eastern Pondhawk (Female). J. Storm



Eastern Amberwing (Male). J. Storm



Ebony Jewelwing (Male). J. Storm



Eastern Amberwing (Female). Joy Marzolf



Ebony Jewelwing (Female) on right. J. Storm





Common Green Darner (Male). Giff Beaton



Twelve-spotted Skimmer. Giff Beaton



Common Green Darner (Female). Joy Marzolf



Widow Skimmer (Male). Giff Beaton



Halloween Pennant (Female). J. Storm



Widow Skimmer (Female). John Flannery (CC BY-SA 4.0)



Slaty Skimmer (Male). J. Storm

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Millipedes & Centipedes



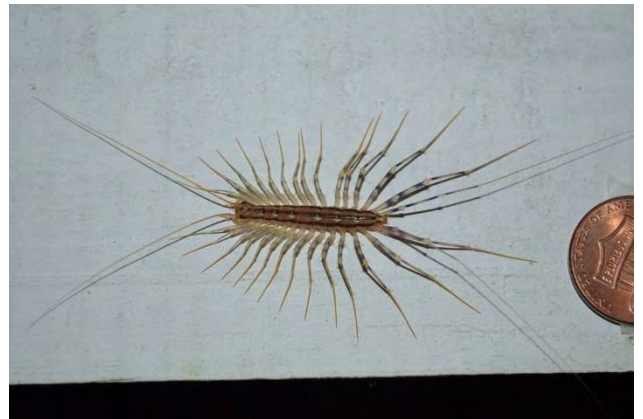
Flat-backed Millipede. J. Storm



Garden Millipede. J. Storm



Flat-backed Millipede. J. Storm



House Centipede. J. Storm



Florida Blue Centipede. J. Storm



North American Millipede. J. Storm

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[Pill Bug](#). J. Storm



[Stone Centipede](#). J. Storm

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Bugs, Cicadas, & Leafhoppers



Aphids. J. Storm



Boxelder Bug. M. Storm



Assassin Bug Nymph. J. Storm



Brown Marmorated Stinkbug. J. Storm



Beech Blight Aphid. J. Storm



Candy-striped Leafhopper. Giff Beaton

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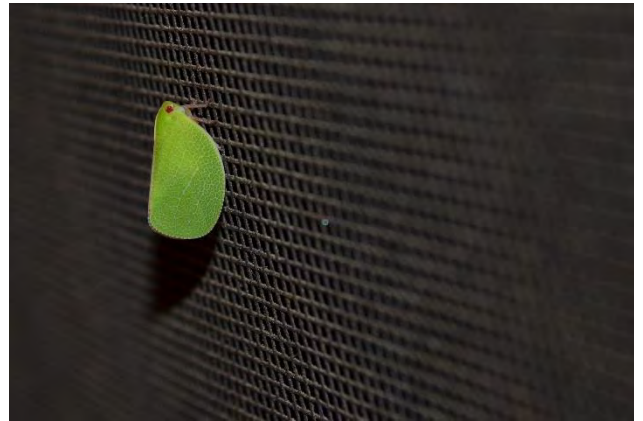
Cicada, Scissor-grinder. J. Storm



Green Stinkbug. J. Storm



Cicada, Swamp. J. Storm



Green Coneheaded Planthopper. J. Storm



Flatid Planthopper. J. Storm



Kudzu Bug. J. Storm



Giant Water Bug. Frank Vassen, Cropped (CC BY 4.0)

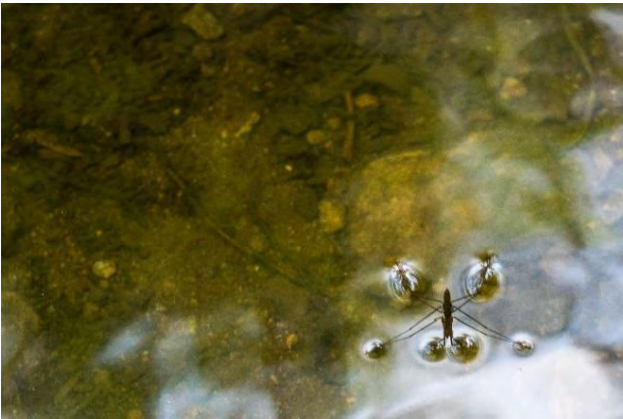


Leaf-footed Bug. J. Storm





[Two-lined Spittlebug](#). Giff Beaton



[Water Strider](#). John Riley



[Wheel Bug](#). J. Storm

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Other Insects



[Black Horse Fly](#). W. Upham, KSU, Bugwood.org



[Carolina Grasshopper](#). J. Storm



[Black Soldier Fly](#). J. Storm



[Carolina Mantis](#). J. Storm



[Camel Cricket](#). J. Storm



[Chinese Mantis](#). M. Storm

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Crane Fly. J. Storm



Fire Ant. S. Bauer, USDA ARC, Bugwood.org



Dobsonfly. K. Blake



Green Bottlefly. J. Storm



Earwig. J. Storm



Green Lacewing. J. Storm



Field Cricket. J. Storm



Katydid. J. Storm





Long-legged Fly. Giff Beaton



Palmetto Bug. W. Cranshaw, Bugwood.org



Orange-winged Grasshopper. J. Storm



Red-footed Cannibalfly. Giff Beaton



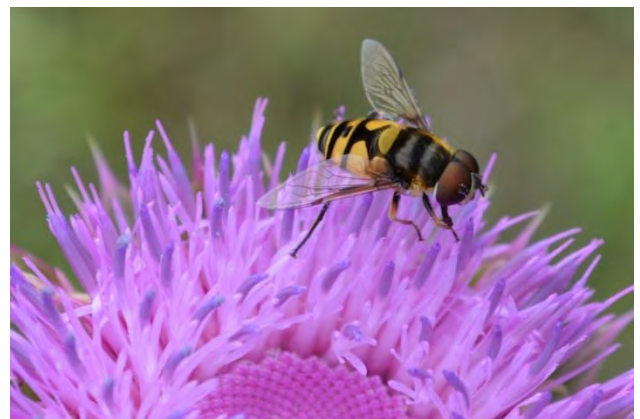
Oriental Cockroach. J. Storm



Silverfish. J. Storm

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Hover Fly. J. Storm

Mammals



Opossum. Joshua Mayer (CC BY-SA 4.0)



Big Brown Bat. Daniel Neal, cropped (cc BY 4.0)



Nine-banded Armadillo. vanguard, cropped (CC BY-SA 4.0)



Eastern Red Bat. Ketzirah Lesser & Art Drauglis (cc BY-SA 4.0)



Southern Short-tailed Shrew. J. Storm



Tri-colored Bat. Christopher Dietel

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Swipe for
more Mammals





Eastern Cottontail. Gareth Rasberry (CC BY-SA 3.0)



Gray Squirrel. J. Storm



House Mouse. Davide, cropped (CC BY 4.0)



Southern Flying Squirrel. Joshua Mayer (CC BY 4.0)



White-footed Mouse. J. Storm



Woodchuck. P. VanDerWerf, cropped (CC BY 4.0)



Eastern Chipmunk. G. Gonthler (CC BY 4.0)



Beaver. Ryan Somma (CC BY-SA 4.0)





Muskrat. Tom Brandt (CC BY 4.0)



Gray Fox. Bill Morrow (CC BY 4.0)



White-tailed Deer. K. Blake



Red Fox. P. Trimming, cropped (CC BY 4.0)



Bobcat. Joyce Cory, cropped (CC BY 4.0)



River Otter. Matt Schuler



Coyote. J. Storm



Striped Skunk. US Fish & Wildlife Service (CC BY 4.0)





Feral Pigs. U.S. Fish & Wildlife Service (CC BY 4.0)

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Reptiles



[Eastern Fence Lizard](#). J. Storm



[Six-lined Racerunner](#). J.D. Willson



[Green Anole](#). J. Storm



[Southeastern Five-lined Skink \(Juvenile\)](#). J. Storm



[Ground Skink](#). J. Storm



[Southeastern Five-lined Skink \(Adult ♂\)](#). J. Storm

For Reptiles, the species name links to North Carolina Information, while the picture is for Georgia and South Carolina

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Black Racer. J.D. Willson



Eastern Hognose Snake. J.D. Willson



Brown Snake. J. Storm



Eastern Kingsnake. J.D. Willson



Copperhead (Venomous). Charles Smith



Eastern Worm Snake. J.D. Willson



Eastern Garter Snake. Joy Marzolf



Northern Watersnake. J.D. Willson





Rat Snake. Aaron Krochmal



Painted Turtle. J. Storm



Ringneck Snake. J.D. Willson



Yellowbelly Slider. Richard Bonnett (CC BY 4.0)



Rough Green Snake. J.D. Willson



Snapping Turtle. Joy Marzolf



Eastern Box Turtle. J. Storm

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Animal Tracks



Beaver. J. Storm



Raccoon. J. Storm



Gray Squirrel. J. Storm



River Otter. Alaska Region US Fish & Wildlife Service (CC BY-NC-ND 4.0)



Opossum. Michael Lensi (cc by 3.0 US)



White-tailed Deer. J. Storm

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[Great Blue Heron](#). J. Storm



[Wild Turkey](#). J. Storm

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Skulls & Bones



Armadillo. J. Storm



COW. J. Storm



Beaver. J. Storm



Cow Femur. J. Storm



Bobcat. J. Storm



Cow Pelvis. J. Storm

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Swipe for More





Eastern Cottontail. J. Storm



Gray Fox. J. Storm



Gray Squirrel. J. Storm



Opossum. J. Storm



Domestic Dog. J. Storm



Pig (Domestic). J. Storm



Domestic Cat. J. Storm



Raccoon. J. Storm





Red Fox. J. Storm



White-Tailed Deer Femur. J. Storm



Red and Gray Fox Comparison. J. Storm



White-tailed Deer Ulna. J. Storm



White-tailed Deer. J. Storm



White-tailed Deer Scapula (Shoulder Blade). J. Storm



White-tailed Deer Humerus. J. Storm



Deer Metacarpal/Metatarsal (Cannon) Bone. J. Storm





White-tailed Deer Radius. J. Storm



White-tailed Deer Radius & Ulna. J. Storm

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Spiders, Ticks, and Mites



Arrow Micrathena. J. Storm



Carolina Wolf Spider. J. Storm



Banded Garden Spider. J. Storm



Common House Spider. J. Storm



Brilliant Jumping Spider (Male). Giff Beaton



Dark Fishing Spider. Katja Schulz (CC BY 4.0)

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Swipe for
More Spiders





Giant Lichen Orbweaver. J. Storm



Magnolia Green Jumper. J. Storm



Grass Spider. J. Storm



Northern Black Widow. M. Storm



Green Lynx Spider. Giff Beaton



Orchard Orbweaver. J. Storm

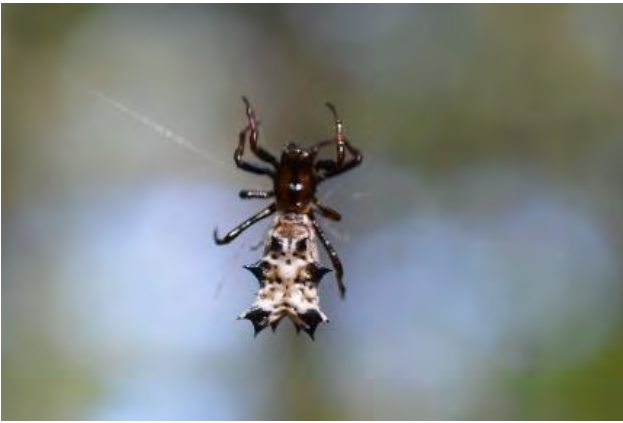


Longbodied Cellar Spider. J. Storm



Six-spotted Fishing Spider. Benny Mazur





Spined Micrathena. J. Storm



Triangulate Orbweaver. J. Storm



Spotted Forest Orbweaver. J. Storm



Yellow Garden (Writing) Spider. J. Storm



Rabid Wolf Spider. J. Storm



American Dog Tick. J. Storm



Spinybacked Orbweaver. J. Storm



Blacklegged Tick. S. Bauer, USDA Ag Res Serv, Bugwood.org





[Lone Star Tick](#). G. Holmes, Cal Poly, SLO, Bugwood.org



[Daddy Longlegs](#). J. Storm



[Red Velvet Mite](#). M. Storm

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Fungi

WARNING – Do NOT use this information to identify mushrooms for consumption. Many fungi are poisonous. Consult a local mushroom hunting club before eating any mushrooms obtained in nature.



American Caesar's Mushroom. J. Storm



Black Bread Mold. J. Storm



Bird's Nest Fungus. J. Storm



Black Sooty Mold. J. Storm



Amber Jelly Roll. J. Storm



Black Sooty Mold on Tree Branch. J. Storm

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Swipe for more Fungi





Cauliflower Mushroom. J. Storm



Cedar-quince Rust. J. Storm



Cedar Apple Rust Gall in Spring. J. Storm



Chanterelle (Multiple Species). J. Storm



Cedar Apple Rust Gall in Winter. J. Storm



Cinnabar-red Chanterelle. J. Storm



Cedar-quince Rust. J. Storm



Citron Amanita. J. Storm





Crown-tipped Coral. J. Storm



Fragile Leucocoprinus. J. Storm



Earth Star. J. Storm



Green-spored Lepiota. J. Storm



Elegant Stinkhorn Fungus. Jason Hollinger (CC BY 4.0)



Lactarius Indigo. J. Storm



False Turkey Tail Fungus. J. Storm



Lion's Mane. J. Storm





Old Man of the Woods. J. Storm



Silver Ear. J. Storm



Penicillium fungus. J. Storm



Wood Ear Fungus. J. Storm



Purple-spored Puffball. J. Storm

WARNING – Do NOT use this information to obtain mushrooms for consumption. Many fungi are **poisonous**. Consult a local mushroom hunting club before eating any mushrooms found in nature.



Russula silvicola. J. Storm

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Lichens



Bushy Beard Lichen. J. Storm



Lichen Red Spore-Producing Apothecium. J. Storm



Lichens (Various species) on tree bark. J. Storm



Reindeer Moss. J. Storm



Lichens (Various species) on rock. J. Storm

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Types of Plants

Ferns, Liverworts, Mosses



Flowering Forbs & Vines



Fruits, Nuts, Seeds, Cones



Grasses & Bamboo



Marsh Plants



Parasitic Plants



Shrub & Understory



Trees



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Ferns, Liverworts, & Mosses



Liverwort. J. Storm



Shining Clubmoss. J. Storm



Hairy Cap Moss. J. Storm



White Cushion Moss. J. Storm



Running Cedar. J. Storm



Christmas Fern. J. Storm

[Back to Types of Plants](#)

Swipe for More





Cinnamon Fern. aecole2010, cropped (cc BY 4.0)



Sensitive Fern. J. Storm



Ebony Spleenwort. J. Storm



Netted Chain Fern. J. Storm



New York Fern. J. Storm

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Fruits, Nuts, Seeds, & Cones

Fleshy Fruits



Nuts & Nutlike Fruits



Seeds & Other Dried Fruits



Cones



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Fleshy Fruits



American Holly. J. Storm



Blackberry (Multiple Species). J. Storm



Autumn Olive. PA Dept. of Con. & Nat. Res. – Forestry, Bugwood.org



Bradford Pear. J. Storm



Black Cherry. J. Storm



Chinese Privet. J. Storm

Fruit, Nut, Seed, Cone Menu

Swipe for More





Common Paw Paw. J. Storm



Mulberry, White. J. Storm



Jack in the Pulpit Fruit. David Stephens, Bugwood.org



Muscadine Grapes. J. Storm



Leatherleaf Mahonia. J. Storm



Partridgeberry. J. Storm



Mock Strawberry. J. Storm



Passionflower Fruit. M. Storm





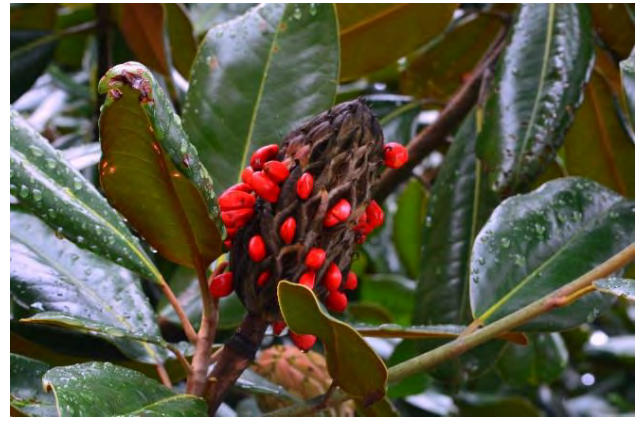
Persimmon Fruit in August. J. Storm



Silky Dogwood. J. Storm



Persimmon Fruit in December. J. Storm



Southern Magnolia Fruit. J. Storm



Pokeweed Berries. J. Storm



Strawberry Bush. J. Storm



Rose Hips on Multiflora Rose. J. Storm



Sumac Fruit. J. Storm





Tulip Poplar Fruit. J. Storm

Fruit, Nut, Seed, Cone Menu

Nuts & Nutlike Fruits



American Beech Nut. J. Storm



Hickory Nuts (Immature). J. Storm



Black Walnuts. J. Storm



Hickory Nut (Mature in Winter). J. Storm



Chinese Chestnut. J. Storm



Northern Red Oak Acorns. J. Storm

Fruit, Nut, Seed, Cone Menu

Swipe for More





[Water Oak Acorns](#). J. Storm

[Fruit, Nut, Seed, Cone Menu](#)

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Seeds & Other Dried Fruits



Catalpa Fruit. F. Bonner, USFS, Bugwood.org, cropped (cc BY 3.0 US)



Chinese Wisteria. J. Storm



Bedstraw Seeds. J. Storm



Cocklebur Seeds. J. Storm



Beggar's Lice Seeds. J. Storm



Eastern Cottonwood Seeds. J. Storm

Fruit, Nut, Seed, Cone Menu

Swipe for More





Eastern Redbud. J. Storm



Milkweed Seed Pod. J. Storm



Honey Locust Seed Pods. J. Storm



Mimosa Seed Pod. J. Storm



Jimsonweed Fruit. J. Storm



Red Elm Fruit. J. Storm



Maple Seeds (Samaras). J. Storm



Sweetgum Fruit. J. Storm





Sycamore Fruit. J. Storm



Sycamore Fruit (with seeds shed). J. Storm



Tag Alder Fruit & Male Catkins. NatureServe, cropped (CC BY-NC 4.0)

[Fruit, Nut, Seed, Cone Menu](#)

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Cones



Bald Cypress Seed Cone. J. Storm



Loblolly Pine Mature Female Cones. J. Storm



Eastern Red Cedar Seed Cone. J. Storm



Loblolly Pine Male Cones. J. Storm



Loblolly Pine Young Female Cones. J. Storm.



Loblolly Pine Male Cones. J. Storm

Fruit, Nut, Seed, Cone Menu

Swipe for More





[Shortleaf Pine Female Cone](#). J. Storm



[Virginia Pine Female Cone](#). J. Storm

[Fruit, Nut, Seed, Cone Menu](#)

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Types of Flowering Forbs & Vines

Flowering Forbs



Spring Wildflowers



Vines



Sort by Flower Color



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Flowering Forbs



Allegheny Monkey-flower. J. Storm



Bedstraw. J. Storm



Asiatic Dayflower. J. Storm



Bitterweed. J. Storm



Atamasco Lilly. J. Storm



Black Cohosh. J. Storm

Flowering Forb & Vine Menu

Swipe for
more Flowers
➔



Black Medick. J. Storm



Bluet, Tiny. J. Storm



Bloodroot. J. Storm



Butterfly-pea. J. Storm



Blue-eyed Grass. J. Storm



Butterfly Milkweed. J. Storm



Bluet, Common. squamatologist (CC BY-NC-ND 4.0)



Cardinal Flower. J. Storm





Carolina Cranesbill. J. Storm



Common Jack in the Pulpit. M. Storm



Catesby's Trillium. Karan A. Rawlins, U. Georgia, Bugwood.org



Common Milkweed. M. Storm



Chinese Lespedeza. J. Storm



Common Morning Glory. J. Storm



Common Dandelion. J. Storm



Common Partridge Pea. J. Storm





Common Ragweed. J. Storm



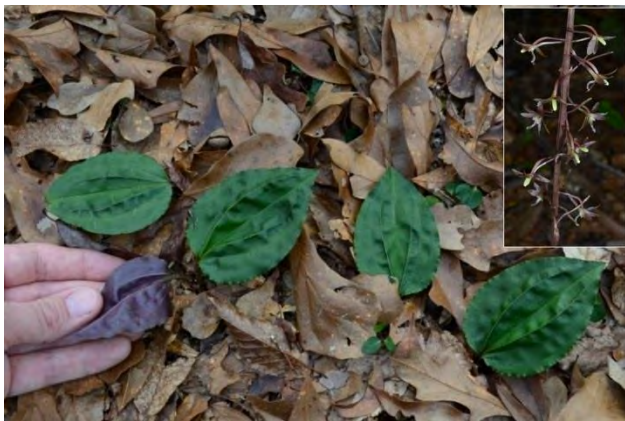
Daisy Fleabane. J. Storm



Common Rough Fleabane. J. Storm



Deptford Pink. J. Storm



Cranefly Orchid. J. Storm



Dimpled Trout Lily. Jason Hollinger (CC BY 4.0)



Creeping Charlie. J. Storm



Dog Fennel. J. Storm





Dove's-foot Cranesbill. J. Storm



Eastern Prickly-pear. J. Storm



Dutchman's Britches. Joshua Mayer (CC BY-SA 4.0)



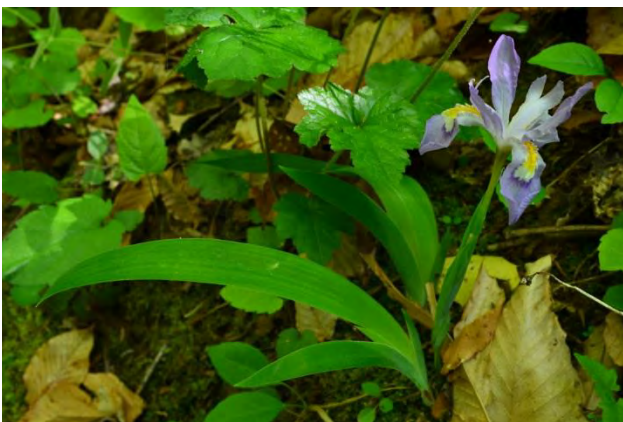
Eastern Sensitive Briar. J. Storm



Dwarf Cinquefoil. J. Storm



Elephant's Foot. J. Storm



Dwarf Crested Iris. J. Storm



European Field Pansy. J. Storm





Evening Primrose. J. Storm



Goldenrod, Tall. J. Storm



Fire-pink. J. Storm



Green and Gold. J. Storm



Foamflower. J. Storm



Hemp Dogbane. J. Storm



Giant Chickweed. J. Storm



Henbit. J. Storm





Hollow-stem Joe Pye Weed. J. Storm



Little Brown Jug. J. Storm



Horse Nettle. J. Storm



Longbristle Smartweed. J. Storm



Jimsonweed. L.J. Mehrhoff, UConn, Cropped, Bugwood.org



Lyreleaf Sage. J. Storm



Johnny-Jump-Up. J. Storm



Mock Strawberry. J. Storm





New York Ironweed. J. Storm



Partridgeberry. J. Storm



Oldfield Toadflax. J. Storm



Passion Flower. J. Storm



Orange Jewelweed. J. Storm



Pink Lady's Slipper. K. Blake



Ox-Eye Daisy. J. Storm



Pokeweed. J. Storm





Prickly Lettuce. J. Storm



Rattlesnake Plantain. J. Storm



Prickly Sow-thistle. J. Storm



Rattlesnake Weed. J. Storm



Purple Deadnettle. J. Storm



Sicklepod. J. Storm



Purplehead Sneezeweed. J. Storm



Small's Ragwort. J. Storm





Southern Chervil. J. Storm



Stiff Verbena. J. Storm



Southeastern Beardtongue. J. Storm



Striped Wintergreen. J. Storm



Spotted Cat's Ear. J. Storm



Thistle, Bull. J. Storm



Spring Beauty. J. Storm



Thistle, Nodding. J. Storm





Thistle, Common Yellow. J. Storm



Violet, Common Wild. J. Storm



Queen Anne's Lace. J. Storm



Violet, Confederate. J. Storm



Vetch, Narrowleaf. J. Storm



Violet, Spearleaf. J. Storm



Vetch, Smooth. J. Storm



Wideleaf Bluestar. J. Storm





White Clover. J. Storm



Wood-Sorrel, Southern Yellow. J. Storm



Wild Comfrey. J. Storm



Wood Sorrel, Violet. J. Storm



Wild Strawberry. J. Storm



Woolly Mullein. J. Storm



Wood Anemone. J. Storm

Flowering Forb & Vine Menu

Spring Wildflowers



Atamasco Lilly. J. Storm



Crane-fly Orchid. J. Storm



Bloodroot. J. Storm



Common Jack in the Pulpit. M. Storm



Catesby's Trillium. Karan A. Rawlins, U. Georgia, Bugwood.org



Dimpled Trout Lily. Jason Hollinger (CC BY 4.0)

Flowering Forb & Vine Menu

Swipe for
more Flowers
➔



Dutchman's Britches. Joshua Mayer (CC BY-SA 4.0)



Solomon's Seal. J. Storm



Dwarf Crested Iris. J. Storm



Spring Beauty. J. Storm



False Solomon's Seal. J. Storm



Wood Anemone. J. Storm



Pink Lady's Slipper. K. Blake

Flowering Forb & Vine Menu

Vines



Carolina Jessamine. J. Storm



Coral Honeysuckle. J. Storm



Chinese Wisteria. J. Storm



Cross-vine. J. Storm



Common Greenbrier. J. Storm



English Ivy. J. Storm

Flowering Forb & Vine Menu

Swipe for
more Vines





Japanese Honeysuckle. J. Storm



Poison Ivy. J. Storm



Kudzu. J. Storm



Trumpet Creeper. J. Storm



Muscadine Grape. J. Storm



Virginia Creeper. J. Storm



Northern Leatherflower. J. Storm

Flowering Forb & Vine Menu

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Forbs, Vines, and Spring Wildflowers by Flower Color

Blue & Purple



Orange & Red



Pink



White



Yellow



[Flowering Forb & Vine Menu](#)

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Blue & Purple Flowers



Allegheny Monkey-flower. J. Storm



Butterfly-pea. J. Storm



Asiatic Dayflower. J. Storm



Chinese Wisteria. J. Storm



Blue-eyed Grass. J. Storm



Common Bluet. squamatologist (CC BY-NC-ND 4.0)

[Back to Flower by Color](#)

Swipe for
more Flowers





Common Morning Glory. J. Storm



Dwarf Crested Iris. J. Storm



Common Wild Violet. J. Storm



Henbit. J. Storm



Confederate Violet. J. Storm



Jimsonweed. L.J. Mehrhoff, UConn, Cropped, Bugwood.org



Creeping Charlie. J. Storm



Little Brown Jug. bobistraveling (cc BY 4.0)





Lyreleaf Sage. J. Storm



Passion Flower. J. Storm



New York Ironweed. J. Storm



Purple Deadnettle. J. Storm



Northern Leatherflower. J. Storm



Smooth Vetch. J. Storm



Oldfield Toadflax. J. Storm



Stiff Verbena. J. Storm





Tiny Bluet J. Storm



Wideleaf Bluestar. J. Storm



Wild Comfrey. J. Storm

[Back to Flower by Color](#)

Orange & Red Flowers



Butterfly Milkweed. J. Storm



Cross-vine. J. Storm



Cardinal Flower. J. Storm



Fire-pink. J. Storm



Coral Honeysuckle. J. Storm



Orange Jewelweed. J. Storm

[Back to Flower by Color](#)

Swipe for
more Flowers
➔



Trumpet Creeper . J. Storm

[Back to Types of Plants](#)

[Flowering Forb & Vine Menu](#)

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Pink Flowers



Carolina Cranesbill. J. Storm



Common Milkweed. M. Storm



Thistle, Bull. J. Storm



Common Morning Glory. J. Storm



Catesby's Trillium. Karan A. Rawlins, U. Georgia, Bugwood.org



Common Rough Fleabane. J. Storm

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Swipe for
more Flowers
➔



Common Yellow Thistle. J. Storm



Elephant's Foot. J. Storm



Deptford Pink. J. Storm



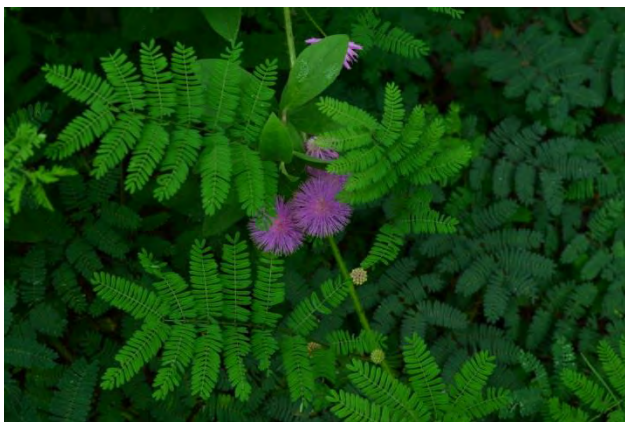
Hollow-stem Joe Pye Weed. J. Storm



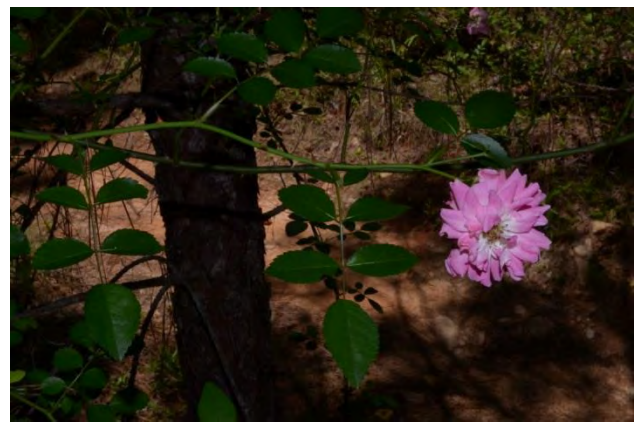
Dove's-foot Cranesbill. J. Storm



Longbristle Smartweed. J. Storm



Eastern Sensitive Briar. J. Storm



Memorial Rose. J. Storm





Narrowleaf Vetch. J. Storm



Southeastern Beardtongue. J. Storm



Nodding Thistle. J. Storm



Wood Sorrel, Violet. J. Storm



Pink Lady's Slipper. K. Blake



Spring Beauty. J. Storm

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[Back to Types of Plants](#)

White Flowers



Atamasco Lilly. J. Storm



Chinese Lespedeza. J. Storm



Black Cohosh. J. Storm



Common Morning Glory. J. Storm



Bloodroot. J. Storm



Confederate Violet. J. Storm

[Back to Flower by Color](#)

Swipe for
more Flowers
➔



Daisy Fleabane. J. Storm



False Solomon's Seal. J. Storm



Dog Fennel. J. Storm



Foamflower. J. Storm



Dutchman's Britches. Joshua Mayer (CC BY-SA 4.0)



Giant Chickweed. J. Storm



European Field Pansy. J. Storm



Hemp Dogbane. J. Storm





Horse Nettle. J. Storm



Ox-eye Daisy. J. Storm



Japanese Honeysuckle. J. Storm



Partridgeberry. J. Storm



Jimsonweed. L.J. Mehrhoff, UConn, Cropped, Bugwood.org



Poison Ivy. J. Storm



May-Apple. J. Storm



Queen Anne's Lace. J. Storm





Rattlesnake Plantain. J. Storm



Striped Wintergreen. J. Storm



Solomon's Seal. J. Storm



White Clover. J. Storm



Southern Chervil. J. Storm



Wood Anemone. J. Storm



Spring Beauty. J. Storm

[Back to Flower by Color](#)

Yellow Flowers



Bitterweed. J. Storm



Common Dandelion. J. Storm



Black Medick. J. Storm



Common Partridge Pea. J. Storm



Carolina Jessamine. J. Storm



Cross-vine. J. Storm

[Back to Flower by Color](#)

Swipe for
more Flowers
➔



Dwarf Cinquefoil. J. Storm



Goldenrod, Tall. J. Storm



Eastern Prickly-pear. J. Storm



Green and Gold. J. Storm



European Field Pansy. J. Storm



Japanese Honeysuckle. J. Storm



Evening Primrose. J. Storm



Mock Strawberry. J. Storm





Prickly Sow-thistle. J. Storm



Small's Ragwort. J. Storm



Purplehead Sneezeweed. J. Storm



Spearleaf Violet. J. Storm



Rattlesnake Weed. J. Storm



Spotted Cat's Ear. J. Storm



Sicklepod. J. Storm



Wood-Sorrel, Southern Yellow. J. Storm





Woolly Mullein. J. Storm

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Grasses and Bamboo



[Broomsedge](#). J. Storm



[River Cane](#). J. Storm



[Golden Bamboo](#). J. Storm



[River Oats](#). J. Storm



[Japanese Stiltgrass](#). J. Storm



[Sandbur](#). J. Storm

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Marsh Plants



[Allegheny Monkey-flower](#). J. Storm



[Fragrant White Water Lily](#). Rusty Clark (CC BY 4.0)



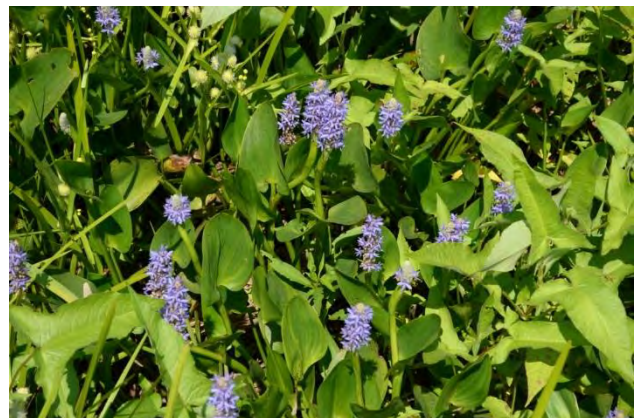
[American Bur-reed](#). J. Storm



[Broadleaf Arrowhead](#). J. Storm



[Common Cattail](#). J. Storm



[Heartleaf Pickerelweed](#). J. Storm

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Parasitic Plants



[American Squawroot](#). W.M. Ciesla, FHMI, Bugwood.org



[Mistletoe](#) J. Storm



[Common Dodder](#). J. Storm



[Mistletoe \(Up Close\)](#). J. Storm



[Indian Pipe](#). J. Storm



[Pine Sap](#). J. Storm

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Shrub & Understory Plants



American Holly. J. Storm



Chinese Privet. J. Storm



Autumn Olive. J. Storm



Common Paw Paw. J. Storm



Blackberry. J. Storm



Elderberry. J. Storm

[Back to Types of Plants](#)

Swipe for
more Shrubs





Flowering Dogwood. J. Storm



Mountain Laurel. J. Storm



Leatherleaf Mahonia. J. Storm



Multiflora Rose. J. Storm



Memorial Rose. J. Storm



Painted Buckeye. J. Storm



Mountain Doghobble. J. Storm



Redbud. J. Storm





River Cane. J. Storm



Sumac, Smooth. J. Storm



Rosebay Rhododendron. J. Storm



Sumac, Winged. J. Storm



Silky Dogwood. J. Storm



Sweetshrub. W.M. Ciesla, FHMI, Bugwood.org



Sparkleberry. Vern Wilkins, Indiana University, Bugwood.org

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Trees



American Beech. J. Storm



American Sycamore. J. Storm



American Beech in Winter. J. Storm



Ash, American. NatureServe (CC BY 4.0)



American Persimmon. J. Storm



Ash, Green. K.A. Rawlins, U. Georgia, Bugwood.org

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Swipe for
more Trees





Black Cherry. J. Storm



Bradford Pear. J. Storm



Young Bark of Black Cherry. J. Storm



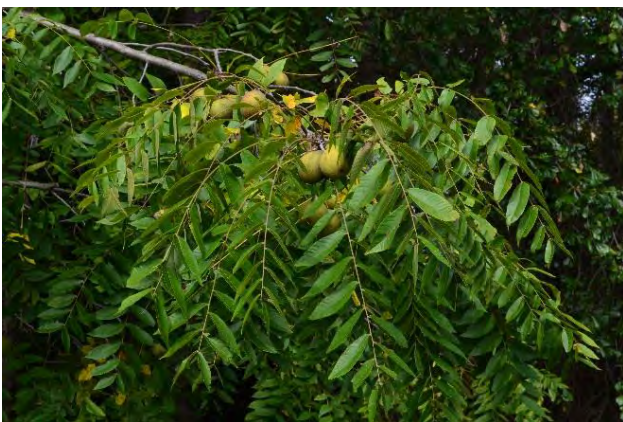
Common Paw Paw. J. Storm



Black Locust. J. Storm



Common Silverbell. Plant Image Library (CC BY-SA 4.0)



Black Walnut. J. Storm



Eastern Cottonwood. J. Storm





Eastern Hemlock (with Woolly Adelgid). J. Storm



Golden Bamboo. J. Storm



Eastern Red Cedar. J. Storm



Hackberry, Southern. J. Storm



Eastern Box Elder. J. Storm



Hickory, Mockernut. J. Storm



Flowering Dogwood. J. Storm



Hickory, Pignut. J. Storm





Honey Locust. J. Storm



Oak, Northern Red. J. Storm



Virginia Pine
• Needles in bundles of 2
• Needles 1.5 – 2.5 in. long
• Needles twist



Shortleaf Pine
• Needles in bundles of 2
• Needles 2.5 – 4 in. long
• Needles straight

Loblolly Pine
• Needles in bundles of 3
• Needles 6 – 9 in. long
• Needles straight

Comparison of Common Pine Trees. J. Storm



Oak, Post. J. Storm



Mimosa. J. Storm



Oak, Southern Red. J. Storm



Oak, Black. J. Storm



Oak, Water. J. Storm





Oak, White. J. Storm



Pine, Virginia. J. Storm



Painted Buckeye. J. Storm



Princess Tree. J. Storm



Pine, Loblolly. J. Storm



Redbud. J. Storm



Pine, Shortleaf. Chris Evans, University of Illinois, Bugwood.org



Red Maple, Eastern. J. Storm





Red Mulberry. J. Storm



Silky Dogwood. J. Storm



River Birch. J. Storm



Southern Catalpa. J. Storm



Rusty Blackhaw. J. Storm



Sweetgum. J. Storm



Sassafras. J. Storm



Tree-of-Heaven. J. Storm





Winged Elm. J. Storm



Yellow Poplar. J. Storm

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Slime Molds



Bottle Brush Slime Mold. J. Storm



Physarum Slime Mold. J. Storm



Coral Slime. J. Storm



Red Raspberry Slime Mold. J. Storm



Dog Vomit Slime Mold (Aethalium Stage) . J. Storm



Wolf's Milk Slime Mold. J. Storm

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Minerals



Amethyst. J. Storm



Crystal Quartz. J. Storm



Biotite Mica. J. Storm



Hornblende. J. Storm



Chlorite. J. Storm



Milky Quartz. J. Storm

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Swipe for
more Minerals





Muscovite Mica. J. Storm



Pyroxene. J. Storm



Plagioclase Feldspar. J. Storm



Tourmaline. J. Storm

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Swipe for Rocks



Rocks



Amphibolite. J. Storm



Gabbro. J. Storm



Basalt. J. Storm



Garnet Schist. J. Storm



Diorite. J. Storm



Gneiss. J. Storm

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Swipe for
more Rocks





Granite. J. Storm



Quartzite. J. Storm



Granite Pegmatite. J. Storm



Slate (a shingle). J. Storm



Marble. J. Storm



Vermiculite. J. Storm



Mica Schist. J. Storm

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What's That?



Amphibian Egg Masses. J. Storm



Bagworm Moth Larval Case. J. Storm



Antlion Pits. J. Storm



Bald-faced Hornet Nest. J. Storm



Assassin Bug Nymph. J. Storm



Beaver Gnawing. J. Storm

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Swipe for More





Black Bread Mold. J. Storm



Cedar Apple Rust Gall in Spring. J. Storm



Black Sooty Mold. J. Storm



Cedar Apple Rust Gall in Winter. J. Storm



Black Sooty Mold on a Tree Branch. J. Storm



Caddisfly Larva in Case. Bob Henricks, cropped (cc BY 4.0)



Braconid Wasp Parasitoids. J. Storm



Carolina Mantis Egg Case. J. Storm





Cicada Exoskeleton Molt. J. Storm



Dobsonfly Larva. J. Storm



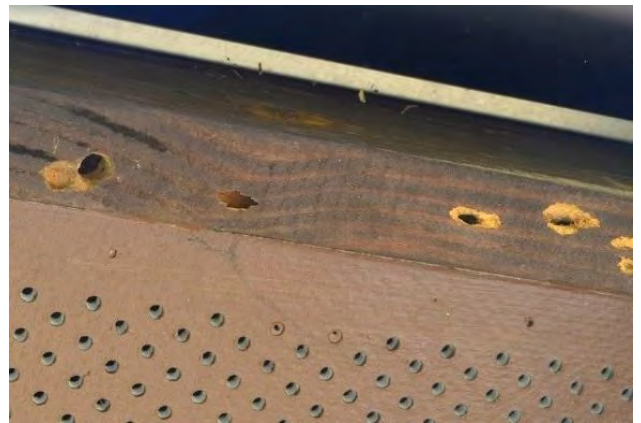
Cliff Swallow Nest. regan76, cropped (CC BY 4.0)



Dragonfly Nymph. M. Storm



Cranefly Larva. J. Storm



Eastern Carpenter Bee Nest. J. Storm



Damselfly Larva. Robb Hannawacker



Eastern Cottontail Scat. J. Storm





Eastern Cottonwood Seeds. J. Storm



Fall Webworm Nest. J. Storm



Eastern Mole Foraging Burrows. J. Storm



Fire Ant Mound. J. Storm



Eastern Tent Caterpillar Tent. J. Storm



Fungal Hyphae. J. Storm



Fairy Ring of Purple-sporing Puffballs. J. Storm



Garden Slug. J. Storm





Glowworm Larva. Vlad Reznichenko



Gray Squirrel Pine Cone Debris. M. Storm



Goldenrod Gall Fly Gall. J. Storm



Hammerhead Worm. J. Storm



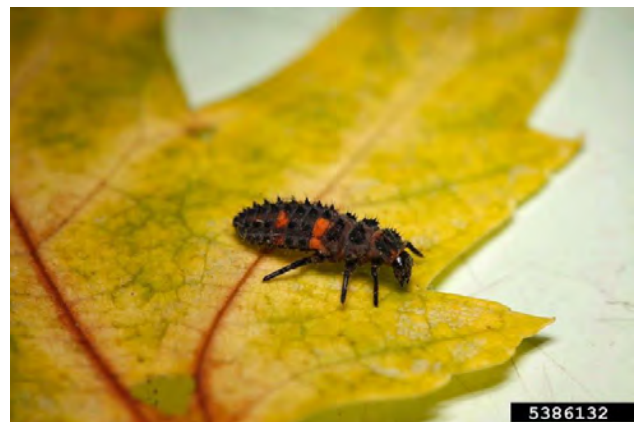
Goldenrod Gall Bored by a Woodpecker. J. Storm



Hellgrammite. M. Storm



Grass Spider Web. M. Storm



Lady Beetle Larva. Joseph Berger, Bugwood.org





Leopard Slug. J. Storm



Muskrat Lodge. Chesapeake Bay Program (CC BY-NC 4.0)



Maple Eyespot Gall. J. Storm



Northern Flicker Flight Feather. J. Storm



Mayfly. M. Storm



Oak Apple Gall. J. Storm



Blue Mud Dauber Nest. J. Storm



Oak Bullet Gall (on White Oak). J. Storm





Organ Pipe Mud Dauber Nests. J. Storm



Poison Ivy Vine. J. Storm



Paper Wasp Nest. J. Storm



Pollen. J. Storm



Penicillium fungus. J. Storm



Potter Wasp Nest. J. Storm



Pileated Woodpecker Holes. K. Blake



Slug Slime Trail. J. Storm





Spider Egg Sacs. J. Storm



White Grubs. J. Storm



Spittlebug Spittle. J. Storm



Wild Turkey Nest. M. Storm



Turkey Belly (Top) and Flight Feather (Bottom). J. Storm



Wool-sower Wasp Gall. J. Storm



Wheel Bug Nymphs. J. Storm



Worm Castings. M. Storm





[Yellow-bellied Sapsucker Foraging Holes](#). J. Storm

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What's That Sound?

The lists below include common sounds you can hear in the Southern Piedmont. Have fun trying to figure out what is making that sound! Each name links to a website that plays the call.

Insects:

[Common True Katydid \(Southeastern Race\)](#). Calling song is often heard on summer evenings

[Northern Dusk-singing Cicada](#). Often heard at dusk

[Scissor-grinder Cicada](#). Call from trees on hot summer days

[Southeastern Field Cricket](#). The long, trilling call is common in yards

[Swamp Cicada](#). Often calls in the morning and can be heard in suburban yards. A pulsing drone that increases in volume

Frogs & Toads:

[Fowler's Toad](#). Sounds like a sheep bleating or a baby crying. Call lasts up to 4 seconds

[Northern Cricket Frog](#). Call sounds like marbles clicking together in a bag

[Cope's Gray Treefrog](#). Call is a long trill

[Green Treefrog](#). Call is a repetition of "reenk, reenk, reenk"

[Spring Peeper](#). Repetition of "peep peep peep". Often in loud choruses

[Upland Chorus Frog](#). Sounds like a thumb dragging across the teeth of a comb

[Bullfrog](#). Call is a loud "jug-o-rum"

[Green Frog](#). Sounds like a few plucks of a banjo, descending in frequency with each pluck

Birds – Pond and Marsh Habitat:

[Canada Goose](#). Loud honk with an upward inflection at the end

[Red-winged Blackbird](#). "Conk la ree" song is often heard in marshes

Birds – Field Habitat:

[Red-tailed Hawk](#). "Kee-eeee-arr" scream is common. Look up to see a flying hawk

[Northern Bobwhite](#). Call sounds like they are saying "bob white"

[Killdeer](#). Often give a call in flight that is a repeated "kill deer"

[Mourning Dove](#). Song is a "coo-ooo, coo coo coo" with an upwards inflection on first cooh

[Common Nighthawk](#). Fly high in the sky on summer nights. Listen for a "peent" call

[Northern Mockingbird](#). Mimic the sounds of many other birds, often repeating them 2-6 times

[Eastern Kingbird](#).

[Field Sparrow](#). Song consists of a series of accelerating whistles that ends with a trill

[Eastern Meadowlark](#). Often heard singing from on top of a perch in grassy habitat

Swipe for
more Sounds



Birds – Backyard & Urban Habitat:

Red-shouldered Hawk. Call is a repetition of “Kee-ahh” with a downward inflection on the “ahh”

Cooper’s Hawk. Loud “cak, cak, cak, cak” sound is common

Killdeer. Often give a call in flight that is a repeated “kill deer”

Mourning Dove. Song is a “coo-oooh, coo coo coo” with an upwards inflection on “oooh”

Eastern Screech Owl. Give a trilling call that resembles the whinny of a horse

Common Nighthawk. Fly high in the sky on summer nights. Listen for a “peent’ call

Chimney Swift. High pitched chips often heard at dusk while they fly fast high in the sky

Downy Woodpecker. Series of high-pitched “pik” sounds that descend in fast repetition at end

Red-bellied Woodpecker. The “kwirr” call is common

Northern Flicker. Call is a “kyeer”. Commonly give call similar to a pileated woodpecker

Blue Jay. Often give a “jeer” call

American Crow. Listen for “caw, caw”

Carolina Chickadee. Makes a variety of very common sounds

Tufted Titmouse. Breeding song is “peter, peter, peter”. Call is raspy and commonly heard

White-breasted Nuthatch. “Wha wha wha wha wha wha wha” song is common in Spring

Carolina Wren. Descending “cheer” call

American Robin. Often heard calling in yards at dawn

European Starling.

Gray Catbird. Call resembles a cat meow

Northern Mockingbird. Mimic the sounds of many other birds, often repeating them 2-6 times

Northern Cardinal. Song is “cheer, cheer, cheer, birdie, birdie, birdie”

Eastern Towhee. Song resembles “drink your tea” with the ‘tea’ being a trill

Common Grackle. Form large flocks in yards. Song resembles opening a rusty gate

Birds – Woodland Habitat:

Red-shouldered Hawk. Call is a repetition of “kee-ahh” with a downward inflection on the “ahh”

Cooper’s Hawk. Loud “cak, cak, cak, cak” sound is common

Chuckwill’s Widow. Call is a repeated “chuck-will’s-widow” heard at dusk and at night

Eastern Whip-poor-will. Listen for a repetitive “whip-poor-will” on warm summer nights

Yellow-billed Cuckoo.

Barred Owl. Call is “who cooks for you, who cooks for you all?” Caterwauling call resembles monkeys.

Eastern Screech Owl. Give a trilling call that resembles the whinny of a horse

Belted Kingfisher. Rattle call is often given while they fly down a stream or river

Downy Woodpecker. Series of high-pitched “pik” sounds that descend in fast repetition at end



Birds – Woodland Habitat (Continued):

[Red-bellied Woodpecker](#). The “kwirr” call is common

[Northern Flicker](#). Call is a “kyeer”. Commonly give call similar to a pileated woodpecker

[Pileated Woodpecker](#). Makes a loud “wuk” call similar to the northern flicker

[Eastern Wood-pewee](#). The pee-a-wee song is often heard in woodlands

[Eastern Phoebe](#). Males often sing a song that sounds like “fee bee, fee bee E”

[Blue Jay](#). Often give a “jeer” call

[American Crow](#). Listen for “caw, caw”

[Carolina Chickadee](#). Makes a variety of very common sounds

[Tufted Titmouse](#). Breeding song is “peter, peter, peter”. Call is raspy and commonly heard

[White-breasted Nuthatch](#). “Wha wha wha wha wha wha wha” song is common in spring

[Carolina Wren](#). Descending “cheer” call

[Wood Thrush](#).

[Gray Catbird](#). Call resembles a cat meow

[Eastern Towhee](#). Song resembles “drink your tea” with the ‘tea’ being a trill

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Additional Resources

This field guide is intended to help the general public identify and learn about common or distinctive organisms living in the Piedmont of the Carolinas and Georgia. If you wish to learn more about the organisms living in this region, the books below are a good starting point. This listing does not represent endorsement of any particular book.

- Abbott, J.C. 2006-2016. OdonataCentral: An online resource for the distribution and identification of Odonata. Available at <http://www.odonatacentral.org>.
- Beaton, G. 2007. Dragonflies and Damselflies of Georgia and the Southeast. University of Georgia Press, Athens.
- Beane, J.C., A.L. Braswell, J.C. Mitchell, W.M. Palmer, and J.R. Harrison III. 2010. Amphibians and Reptiles of the Carolinas and Virginia, 2nd Edition. University of North Carolina Press, Chapel Hill, NC.
- Bessette, A.E., W.C. Roody, A.R. Bessette, and D.L. Dunaway. 2007. Mushrooms of the Southeastern United States. Syracuse University Press, Syracuse, NY.
- Buhlmann, K. and T. Tuberville. 2008. Turtles of the Southeast. University of Georgia Press, Athens.
- Daniels, J.C. 2003. Butterflies of the Carolinas Field Guide. Adventure Publications, Inc, Cambridge, MN.
- Dorcas, M.E. 2005. A Guide to the Snakes of North Carolina. Belk Printing Technologies, Charlotte, NC.
- Dorcas, M.E., S.J. Price, J.C. Beane, and S.C. Owen. 2007. The Frogs and Toads of North Carolina: Field Guide and Recorded Calls. North Carolina Wildlife Resources Commission. Raleigh, NC.
- Elbroch, M. 2003. Mammal Track and Sign: A Guide to North American Species. Stackpole Books. Mechanicsburg, PA.
- Elbroch, M. 2006. Animal Skulls: A Guide to North American Species. Stackpole Books. Mechanicsburg, PA.
- Elliott, L. and W. Hershberger. 2007. The Songs of Insects. Houghton Mifflin Company, Boston.
- Gaddy, L.L. 2009. Spiders of the Carolinas. Kollath + Stensaas Publishing, Duluth, MN.
- Kirkman, K.L., C.L. Brown, D.S. Leopold. 2007. Native Trees of the Southeast. Timber Press, Portland, OR.
- Murphy, C.H. 1995. Carolina Rocks!: The Geology of South Carolina. Sandlapper Publishing Company, Orangeburg, SC
- Newberry, G. 2014. Flora of the Carolinas. Available at Hub City Books in Spartanburg, SC. Proceeds benefit the Spartanburg Area Conservancy (SPACE).
- Porcher, R.E. and D.A. Rayner. 2001. A guide to the Wildflowers of South Carolina. University of South Carolina Press, Columbia, SC.
- Scott, S.D. and C. McFarland. 2010. Bird Feathers: a Guide to North American Species. Stackpole Books, Mechanicsburg, PA.
- Spira, T.P. 2011. Wildflowers and Plant Communities of the Southern Appalachian Mountains and Piedmont: A Naturalist's Guide to the Carolinas, Virginia, Tennessee, and Georgia. University of North Carolina Press, Chapel Hill.
- Tekiela, S. 2007. Trees of the Carolinas Field Guide. Adventure Publications, Cambridge, MN.
- Webster, W.D., J.F. Parnell, and W. Biggs. 1985. Mammals of the Carolinas, Virginia, and Maryland. University of North Carolina Press, Chapel Hill, NC.
- Whitaker, J.O. and W.J. Hamilton. Mammals of the Eastern United States. 1998. Cornell University Press, Ithaca, NY.

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Reviewers

We thank the following individuals for providing constructive criticism of this field guide. If you find any errors or have suggestions, please email Jon Storm at jstorm@uscupstate.edu.

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Cover photos by Giff Beaton (*Colonus puerperus* jumping spider), J.D. Willson (red salamander), & Jon Storm

If you find any errors or have suggestions for additions, please contact Jon Storm at jstorm@uscupstate.edu