

APPENDIX K

State Listed Protected Species

**State Listed Rare, Threatened, and Endangered Species (Species of Concern)
Known to Occur or Possibly Occur in Jasper County, S.C. and Chatham County, GA**

Scientific Name	Common Name	Status*	Habitat	Suitable Habitat Present?	County
Plants					
<i>Acacia farnesiana</i>	Sweet Acacia	S1	Sandy flats behind dunes; open live oak woods	No	Chatham
<i>Agalinis linifolia</i>	Flax Leaf False-foxglove	SNR	Coastal Plain depression ponds, cypress savannas, wet pine savannas	No	Jasper
<i>Agarista populifolia</i>	Carolina Dog-hobble	S1	Blackwater swamps, hydric hammocks, marly spring runs	No	Jasper
<i>Aletris obovata</i>	White Colicroot	S1	Pine savannas	No	Jasper
<i>Amorpha georgiana</i> var. <i>georgiana</i>	Georgia Indigo-bush	S1	Longleaf pine flatwoods; stream terraces	No	Chatham
<i>Andropogon brachystachyus</i>	Short-spike Bluestem	S1	Moist to wet pinelands, natural pond margins, bogs, disturbed roadsides	Yes	Jasper
<i>Andropogon gyrans</i> var. <i>stenophyllus</i>	Elliott's Bluestem	S1	Dry to moist forests, woodlands, fields, and disturbed areas	Yes	Jasper
<i>Anthraenantia rufa</i>	Purple Silkyscale	S2	Wet savannas in the outer Coastal Plain, seepage bogs and moist sandhill-pocosin in sandhills	No	Jasper
<i>Aristida condensata</i>	Piedmont Three-awned Grass	S2	Dry sandy soils of sandhills; sandy woods and fields	No	Jasper
<i>Bacopa cyclophylla</i>	Coastal-plain Water-hyssop	S1	Freshwater tidal muds, marshes, shallow water	Yes	Jasper
<i>Balduina uniflora</i>	One-flower Balduina	S2	Wet pine savannas and pine flatwoods	No	Jasper
<i>Canna flaccida</i>	Bandana-of-the-everglades	S2	Wet pine savannas, marshes, ditches	Yes	Jasper
<i>Carex amphibola</i>	Narrowleaf Sedge	SNR	Moist loamy forests, bottomlands, slopes, uplands	No	Jasper
<i>Cayaponia quinqueloba</i>	Cayaponia	S1?	Swamp forests, river banks	No	Jasper
<i>Cliftonia monophylla</i>	Buckwheat-tree	SH	Acid bogs, bayheads, swamps, and stream banks	No	Jasper
<i>Coreopsis gladiata</i>	Southeastern Tickseed	SNR	Swamp forests; marshes, bogs and wet pine barrens	Yes	Jasper
<i>Crotonopsis linearis</i>	Narrowleaf Rushfoil	SNR	Roadsides and open wooded sandy habitats; disturbed sand soils	Yes	Jasper
<i>Cyperus tetragonus</i>	Piedmont Flatsedge	S2	Maritime forests and dunes, edges of brackish marshes	Yes	Jasper
<i>Dicerandra odoratissima</i>	Rose Balm	S1	Sandy woods	No	Jasper

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<i>Dichantheium aciculare</i>	Broomsedge; Needle Witchgrass	SNR	Sandy woods and fields	No	Jasper
<i>Eupatorium anomalum</i>	Florida Thorough-wort	S1?	Moist savannas, moist interdune swales	No	Jasper
<i>Forestiera segregata</i>	Florida Wild Privet	S2/S1	Shell mounds on barrier islands in scrub or maritime forests	No	Chatham & Jasper
<i>Halesia diptera</i>	Two-wing Silverbell	S1	Bottomland forests, forested edges of brackish marshes	Yes	Jasper
<i>Halesia parviflora</i>	Small-flowered Silverbell-tree	S2	Sandy alluvial forests	No	Jasper
<i>Hibiscus grandiflorus</i>	Swamp Hibiscus	S2	Tidal marshes, coastal flatwoods; wet savannas	Yes	Chatham
<i>Hypericum adpressum</i>	Creeping St. John's-wort	S2	Open, shallow depression ponds; marshes, bogs, and sunny edges of cypress ponds.	Yes	Jasper
<i>Illicium parviflorum</i>	Yellow Anise- tree	SH	Evergreen hammocks, bayheads	No	Chatham
<i>Lepuropetalon spathulatum</i>	Southern Lepuropetalon	S2	Moist open areas, such as seepage on granitic flatrocks, ditches, seasonally wet depressions	Yes	Jasper
<i>Licania michauxii</i>	Gopher-apple	S1	Sandhills, dry sandy pinelands	No	Jasper
<i>Lindera melissifolia</i>	Pond Spicebush	S2	Pond margins and wet savannas	No	Chatham
<i>Listera australis</i>	Southern Twayblade	S2	Swamps, second terraces in floodplain forests, wet woods under Rhododendron thickets.	No	Jasper
<i>Litsea aestivalis</i>	Pondspice	S3	Edges of swamps, cypress ponds, sandhill depression ponds, and Carolina bays, thickets around pond margins.	No	Jasper
<i>Lyonia ferruginea</i>	Rusty Lyonia	S1	Dry oak and pine woodlands, scrub, rarely pocosins, spodosolic flatwoods	No	Jasper
<i>Lysimachia hybrida</i>	Lance-leaf Loosestrife	S1	Mesic hardwood forests, wet areas	No	Jasper
<i>Macbridea caroliniana</i>	Carolina Bird- in-a-nest	S3	Blackwater creek swamps; Atlantic white cedar swamps; roadside ditches through these habitats.	No	Jasper
<i>Nyssa ogeche</i>	Ogeechee Tupelo	S1	River swamps and wet forests with peaty soils, upland depression ponds	No	Jasper

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<i>Orbexilum lupinellum</i>	Sampson Snakeroot	S1	Sandhill pine-oak open woodlands and savannah	No	Jasper
<i>Panicum neuranthum</i>	Nerved Witchgrass	SNR	Maritime wet grasslands, piedmont prairie-like barrens	No	Jasper
<i>Physostegia leptophylla</i>	Narrowleaf Obedient Plant	S2S3	Freshwater tidal marshes; disjunct in wet savannas of extreme SW Georgia	Yes	Chatham & Jasper
<i>Pinckneya pubens</i>	Hairy Fever-tree	S1	Margins of acidic, peaty blackwater swamps	No	Jasper
<i>Plantago sparsiflora</i>	Pineland Plantain	S2	Wet savannas over coquina limestone, & adjacent man-made microhabitats such as fire-plow lines, shallow ditches along roadsides, or mowed power line ROW's	Yes	Jasper
<i>Platanthera integra</i>	Yellow Fringeless Orchid	S1	Wet pine flatwoods, wet prairies, sunny seepage slopes, organic black sandy peat; depressions within pinelands. Marshes, swamps, acid bogs, low pine barrens.	Yes	Jasper
<i>Polygala hookeri</i>	Hooker's Milkwort	S1	Pine savannas	No	Jasper
<i>Polygala nana</i>	Dwarf Milkwort	S1	Longleaf pine flatwoods, other open moist areas	No	Jasper
<i>Potamogeton foliosus</i>	Leafy Pondweed	SNR	Calcareous or brackish waters of lakes, streams and ponds	No	Jasper
<i>Pteroglossaspis ecristata</i>	Crestless Plume Orchid	S2	Scrub oak lands, pine-palmetto flatwoods, acid seepage slopes, dry-mesic pine savannas and roadsides, especially those with frequent burns.	No	Jasper
<i>Pycnanthemum nudum</i>	Pinelands Mountain Mint	S1	Wet pine flatwoods	No	Jasper
<i>Quercus myrtifolia</i>	Myrtle-leaf Oak	S1	Sandy pine woods	No	Jasper
<i>Rhynchospora punctata</i>	Pineland Beaksedge	S1?	Wet savannas, pitcherplant bogs	No	Chatham
<i>Rudbeckia mollis</i>	Soft-hair Coneflower	S1	Sandy open woods	No	Jasper
<i>Sageretia minutiflora</i>	Climbing Buckthorn	S2/S3	Calcareous bluff forests; maritime forests over shell mounds	No	Chatham & Jasper
<i>Sagittaria graminea var. weatherbiana</i>	Grassleaf Arrowhead	S1	Fresh or slightly brackish streams and swamps	Yes	Jasper

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<i>Sapindus marginatus</i>	Soapberry	S1S2	Coastal shell mounds and hardwood hammocks, near salt marsh.	No	Chatham
<i>Sarracenia minor</i> var. <i>minor</i>	Hooded Pitcherplant	S4	Wet savannas and pine flatwoods, seepage slopes, sphagnum seeps in swamps, bogs, and wet ditches.	No	Chatham
<i>Scleria baldwinii</i>	Baldwin nutrush	S1/S2	In wet, peaty or sandy soils in pinelands, and borders of ponds, drainage ditches, and borrow-pits, often in shallow water. In our area, it favors wet savannas, under <i>Pinus serotina</i> , <i>P. palustris</i> , and/or <i>Taxodium ascendens</i> .	Yes	Jasper
<i>Scutellaria mellichampii</i>	Mellichamp's Skullcap	S2?	Sandy deciduous woods	No	Chatham
<i>Spiranthes longilabris</i>	Giant Spiral Ladies'-tresses	S1	Swamps, marshes, wet savannahs and meadows	Yes	Jasper
<i>Sporobolus floridanus</i>	Florida Dropseed	S1	Pinelands	No	Jasper
<i>Sporobolus pinetorum</i>	Pineland Dropseed	S2?	Wet savannas with wiregrass	No	Chatham
<i>Thalia dealbata</i>	Powdery Thalia	S2	Wet ditches and margins of swamp forests	Yes	Jasper
<i>Vigna luteola</i>	Wild Yellow Cowpea	S2?	Open swamps; maritime beaches and tidal flats	Yes	Chatham
<i>Xyris difformis</i> var. <i>floridana</i>	Florida Yellow-eyed Grass	S2	Pond margins, savannahs, wet roadside ditches	Yes	Jasper
<i>Xyris serotina</i>	Acid-swamp Yellow-eyed Grass	S1	Wet pine savannahs	No	Jasper
Animals					
<i>Aimophila aestivalis</i>	Bachman's Sparrow	S3	Mature open pinewoods, regenerating clear-cuts, utility rights-of-way, and old pastures with a dense ground cover of grasses and forbs, or palmetto scrub.	Yes	Jasper
<i>Ammodramus maritimus</i>	Seaside Sparrow	S3	Salt marshes	Yes	Chatham
<i>Ammodramus maritimus macgillivraii</i>	MacGillivraii's Seaside Sparrow	SNR	Salt marshes	Yes	Chatham
<i>Anodonta couperiana</i>	Barrel Floater	S1	Ponds or slow flowing streams with sandy or very deep soft, unstable muddy bottoms	No	Jasper

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<i>Charadrius wilsonia</i>	Wilson's Plover	S2	Coastal beach habitats including dry sand beaches, dunes, newly forming beaches, intertidal sand flats, mudflats, salt pans, and coastal lagoons.	Yes	Chatham
<i>Clemmys guttata</i>	Spotted Turtle	S5	Heavily vegetated swamps, marshes, bogs, and small ponds; nest and possibly hibernate in surrounding uplands	No	Chatham & Jasper
<i>Corynorhinus rafinesquii</i>	Rafinesque's big-eared bat	S2	Dilapidated buildings, under bridges, and in large cavity trees near permanent water.	Yes	Jasper
<i>Crotalus adamanteus</i>	Eastern Diamond-backed Rattlesnake	S4	Early successional habitats on barrier islands and mainland; pine flatwoods; sandhills; maritime grassland and maritime forests	Yes	Chatham & Jasper
<i>Elanoides forficatus</i>	Swallow-tailed Kite	S2	Bottomland forests, cypress swamps, hardwood hammocks, pine flatwoods bordering riparian areas, freshwater and brackish marshes, wet prairies, sloughs, and pastures.	Yes	Chatham
<i>Elassoma okatie</i>	Bluebarred Pygmy Sunfish	S1S2	Temporary ponds and stream backwaters with dense aquatic vegetation	No	Chatham & Jasper
<i>Elliptio congaraea</i>	Carolina Slabshell	S3	Large to medium rivers	Yes	Chatham & Jasper
<i>Gopherus polyphemus</i>	Gopher Tortoise	S1	Sandhills; dry hammocks; longleaf pine-turkey oak woods; old fields	No	Chatham & Jasper
<i>Haematopus palliatus</i>	American Oystercatcher	S2	Sandy beaches; tidal flats; salt marshes	Yes	Chatham
<i>Heterodon simus</i>	Southern Hognose Snake	SNR	Well drained, xeric, sandy longleaf pine and/or scrub oaks (turkey oak); with wiregrass groundcover ; fire-maintained; fallow fields	No	Jasper
<i>Himantopus mexicanus</i>	Black-necked Stilt	S3	Shallow ponds; lagoons	No	Chatham
<i>Hyla avivoca</i>	Bird-voiced Treefrog	S5	Southern portion of the Savannah River floodplain swamp	No	Jasper
<i>Kinosternon baurii</i>	Striped Mud Turtle	SNR	Floodplain swamps of rivers	Yes	Jasper

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<i>Lampsilis cariosa</i>	Yellow Lampmussel	S2	Gravel bars, margins of water bodies and cracks in bedrock in both large rivers and small streams	No	Jasper
<i>Lampsilis splendida</i>	Rayed Pink Fatmucket	S2	Muddy and sandy areas in streams, rivers and backwater swamps	Yes	Jasper
<i>Lanius ludovicianus migrans</i>	Migrant Loggerhead Shrike	S3	Open woods; field edges; open lands with short grass, old fields, orchards, grassy roadsides, cultivated fields and pasture	No	Chatham
<i>Lasiurus intermedius</i>	Northern Yellow Bat	S2S3	Wooded areas near open water or fields	No	Chatham
<i>Lithobates capito</i>	Gopher Frog	S3	Sandhills; dry pine flatwoods; breed in isolated wetlands	No	Chatham
<i>Lithobates virgatipes</i>	Carpenter Frog	S3	Heavily vegetated swamps, bogs, blackwater streams, ponds	No	Chatham
<i>Malaclemys terrapin</i>	Diamondback Terrapin	S3	Entire coast, estuarine and marine edge; All saltmarsh, beaches, bays, rivers, sounds, tidal creeks, and coastal marine habitats	Yes	Chatham
<i>Micrurus fulvius fulvius</i>	Eastern Coral Snake	S3	Hardwood forests; pine flatwoods; dry hammocks in sandhills; maritime forests and mesic hardwood forests in the coastal plain	No	Chatham
<i>Moxostoma robustum</i>	Robust Redhorse	S1	Medium to large rivers, shallow riffles to deep flowing water; moderately swift current	Yes	Chatham
<i>Neotoma floridana & Neotoma floridana floridana</i>	Eastern Woodrat & Coastal plain Eastern Woodrat	S3S4	Dry or mesic deciduous or mixed pine-deciduous forests including coves, wet scrub thickets, bottomlands and swamps.	Yes	Jasper
<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	S3S4	River swamps; marshes; cypress/gum ponds; islands in fresh and brackish water ponds; nests in shrubby habitat	Yes	Chatham
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	S4	River swamps; marshes; cypress/gum ponds	Yes	Chatham

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<i>Ophisaurus mimicus</i>	Mimic Glass Lizard	SNR	Longleaf pine-wiregrass, mesic pine flatwoods, savannas, and pitcher-plant bogs; where groundcover is dominated by grasses	No	Jasper
<i>Passerina ciris</i>	Painted Bunting	S3	Lower coastal plain in thickets, woodland borders, and brushy areas	Yes	Chatham
<i>Pituophis melanoleucus mugitus</i>	Florida Pine Snake	S2	Longleaf pine ecosystem or other open canopy and xeric habitat	No	Jasper
<i>Pseudacris brimleyi</i>	Brimley's Chorus Frog	S1	Moist forests; swamps; bottomlands	Yes	Chatham
<i>Pseudobranchius striatus</i>	Dwarf Siren	S2	Cypress and gum swamps; cypress ponds in areas of acid pine flatwoods; in thick vegetation or in bottom mud and debris	No	Jasper
<i>Pseudorca crassidens</i>	False Killer Whale	SNRN	Open ocean	No	Chatham
<i>Pseudotriton montanus flavissimus</i>	Gulf Coast Mud Salamander	S3S4	Wetland areas such as cypress-tupelo ponds, floodplain forests and seepage slopes	No	Jasper
<i>Pyganodon cataracta</i>	Eastern Floater	SNR	Small streams, rivers, ponds, and lakes; slow-moving rivers, in sand or mud; deeper water of lakes and ponds	No	Jasper
<i>Rynchops niger</i>	Black Skimmer	S1	Nest=beaches, sandbars, dredge spoil islands, and marsh islands; forage= bays, estuaries, tidal creeks and rivers, saltmarsh pools, and other shallow coastal water	Yes	Chatham
<i>Sciurus niger</i>	Eastern Fox Squirrel	S4	Open mixed hardwood forest or mixed pine-hardwood associations; mature open forests of longleaf pine and turkey oak; adjacent bottomland hardwood forests	No	Jasper
<i>Seminatrix pygaea</i>	Black Swamp Snake	SNR	Variety of wetland types with abundant aquatic vegetation, including water lilies and other emergent species.	No	Jasper
<i>Stereochilus marginatus</i>	Many-lined Salamander	S3	Sluggish, swampy streams and bayheads with substrate of leaf litter	No	Chatham

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<i>Sternula antillarum</i>	Least Tern	S3	Nest = Sandy beaches; sandbars barrier island beaches, sand flats and spits, and shell islands; forage = bays, estuaries, inlets, river mouths, fresh water ponds, and shallow near-shore ocean waters	No	Chatham
<i>Toxolasma pullus</i>	Savannah Lilliput	S2	Large rivers to small creeks, oxbows, and sloughs; shallow water near the banks of streams, rivers, ponds, and lakes with little flow in soft substrates such as mud, silty sand, and sand.	No	Chatham
<i>Tyto alba</i>	Barn owl	S3S4	Nests in large hollow trees or old buildings (barns) in areas with extensive pasture or grassland or other open habitats such as marsh.	No	Chatham
<i>Umbra pygmaea</i>	Eastern Mudminnow	S2S3	Sluggish streams, ponds, and sloughs with mud bottoms and heavy vegetation	No	Chatham
<i>Utterbackia imbecillis</i>	Paper Pondshell	SNR	Muddy sand substrates of reservoirs; commonly in artificial waters (e.g., canals, boat basins, retention ponds, old phosphate pits); slack water in mud or muddy sand in ponds, creeks, or larger rivers	No	Jasper
<i>Villosa delumbis</i>	Eastern Creekshell	S4	Deep muddy flock, also in sand and boulder fields; close to the bank of streams and rivers, often among tree roots	No	Jasper

Sources:

1. Georgia Department of Natural Resources. 2009. Rare species profiles. Available online at http://www.georgiawildlife.org/rare_species_profiles . Accessed July 26, 2016.
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3. NatureServe. 2014. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available online at <http://explorer.natureserve.org>. Accessed July 26, 2016.
4. Radford, Ahles, and Bell. 1968. *Manual of the Vascular Flora of the Carolinas*, University of North Carolina Press, Chapel Hill, NC. 1183 pages.
5. Alan S. Weakly, *Flora of the Southern and Mid-Atlantic States*, Working Draft, May 21, 2015, p.1043, http://www.herbarium.unc.edu/FloraArchives/WeakleyFlora_2015-05-29.pdf (July 26, 2016).

S1 = Critically imperiled because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation.

S2 = Imperiled statewide because of rarity or factor(s) making it vulnerable.

S3 = Vulnerable- Vulnerable in the state due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation.

S4 = Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 = Secure—Common, widespread, and abundant

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S#S# = Range Rank—A numeric range rank (e.g., S2S3 or S1S3) is used to indicate any range of uncertainty about the status of the species or ecosystem. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).
 SU = Unrankable—Unrankable due to lack of information or due to substantially conflicting information about status or trends.
 SNR = Unranked—Conservation status not yet assessed.
 SNA = Not Applicable—Rank is not applicable because the species or ecosystem is not a suitable target for conservation activities