

Georgia Department of Natural Resources
Wildlife Resources Division

LONICE C. BARRETT, COMMISSIONER
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Georgia Natural Heritage Program
2117 U.S. Hwy. 278 S.E., Social Circle, Georgia 30025-4714
(770) 918-6411, (706) 557-3032

June 13, 2002

C. R. Pierce
License Renewal Services Manager
Southern Nuclear Operating Company, Inc.
P.O. Box 1295
Birmingham, AL 35201-1295

Subject: Known or Potential Occurrences of Special Concern Plant and Animal Species on or near Joseph M. Farley Nuclear Plant Transmission Lines for License Renewal Application, Early, Baker, Mitchell, Tift, Worth, Miller, Seminole, and Decatur Counties, Georgia

Dear Mr. Pierce:

This is in response to your request of May 7, 2002. Enclosed is a list of special concern species records in our database within a three mile radius of the project site and eight maps showing the location of special concern species within 0.25 mile of the project corridor. Also provided are lists that should aid in assessing the potential for rare species occurrences within the area of concern. Although lists of plant and animal species potentially occurring in many southwest Georgia counties have not been generated, provided are the lists of plant and animal species potentially occurring in the southwest Georgia Regional Development Commission counties combined, lists of plant and animal species potentially occurring in Tift and Dougherty counties, lists of plant species potentially occurring in Decatur County, and lists of animal species potentially occurring in Grady County.

Please keep in mind the limitations of our database. The data collected by the Georgia Natural Heritage Program comes from a variety of sources, including museum and herbarium records, literature, and reports from individuals and organizations, as well as field surveys by our staff biologists. In most cases the information is not the result of a recent on-site survey by our staff. Many areas of Georgia have never been surveyed thoroughly. Therefore, the Georgia Natural Heritage Program can only occasionally provide definitive information on the presence or absence of rare species on a given site. Our files are updated constantly as new information is received. **Thus, information provided by our program represents the existing data in our files at the time of the request and should not be considered a final statement on the species or area under consideration.**

If you know the location of populations of special concern species that are not in our database, please fill out the appropriate data collection form and send it to our office. Forms can be obtained through our web site (<http://www.dnr.state.ga.us/dnr/wild/natural.html>) or by contacting our office. If I can be of further assistance, please let me know.

Sincerely,



Greg Krakow
Data Manager

enclosures

UR 8472

Special Concern Species Locations in Our Database, and Conservation Lands, within a Three Mile Radius of Joseph M. Farley Nuclear Plant Transmission Lines for License Renewal Application, Early, Baker, Mitchell, Tift, Worth, Miller, Seminole, and Decatur Counties, Georgia



Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411

Project Site at Chattahoochee River (-85.09999, 31.23470; NAD27):

Arnoglossum sulcatum (Grooved-stem Indian-plantain) approx. 2.5 mi. S of site
Carex dasycarpa (Velvet Sedge) approx. 2.5 mi. S of site
Salix floridana (Florida Willow) approx. 2.5 mi. S of site
Shackelford-Williams Bluff Preserve approx. 1.5 mi. S of site

Project Site at SR 370/Chattahoochee Industrial (-85.06801, 31.23377; NAD27):

Haliaeetus leucocephalus (Bald Eagle) approx. 1.5 mi. S of site
Macranthera flammea (Flame Flower) approx. 1.0 mi. N of site
Peltandra sagittifolia (Arrow Arum) approx. 1.0 mi. W of site (see Map 1)
Pinguicula primuliflora (Clearwater Butterwort) approx. 1.0 mi. N of site
Ponthieva racemosa (Shadow-witch Orchid) approx. 1.0 mi. N of site
Salix floridana (Florida Willow) approx. 1.0 mi. N of site
Salix floridana (Florida Willow) approx. 1.0 mi. W of site (see Map 1)
Sarracenia psittacina (Parrot Pitcherplant) approx. 1.0 mi. S of site
Sarracenia rubra (Sweet Pitcherplant) approx. 1.0 mi. N of site

Project Site at N-S Split Point (-85.02240, 31.23296; NAD27):

Salix floridana (Florida Willow) approx. 2.5 mi. S of site

FNP-TO-RACCOON CREEK:

Project Site at CR 201 (-84.86034, 31.27988; NAD27):

Heterodon simus (Southern Hognose Snake) approx. 2.5 mi. NW of site

Project Site at Spring Creek (-84.75072, 31.31757; NAD27):

Arnoglossum diversifolium (Variable-leaf Indian-plantain) approx. 0.5 mi. S of site
Arnoglossum diversifolium (Variable-leaf Indian-plantain) approx. 2.5 mi. NW of site
Pteronotropis welaka (Bluenose Shiner) approx. 1.0 mi. S of site
Sideroxylon thornei (Swamp Buckthorn) approx. 0.5 mi. S of site

Special Concern Species Locations in Our Database, and Conservation Lands, within a Three Mile Radius of Joseph M. Farley Nuclear Plant Transmission Lines for License Renewal Application, Early, Baker, Mitchell, Tift, Worth, Miller, Seminole, and Decatur Counties, Georgia



Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411

Project Site at CR 111 (-84.68158, 31.32290; NAD27):

Carex dasycarpa (Velvet Sedge) approx. 2.0 mi. NE of site
Epidendrum conopseum (Green-fly Orchid) approx. 2.0 mi. NE of site
Fundulus escambiae (Eastern Starhead Topminnow) approx. 1.0 mi. NE of site, in Big Cypress Pond at outlet
Sarracenia minor (Hooded Pitcherplant) approx. 2.5 mi. N of site

Project Site at Early/Baker County Line (-84.63717, 31.32546; NAD27):

Epidendrum conopseum (Green-fly Orchid) approx. 3.0 mi. S of site

Project Site at Bainbridge Highway (-84.52581, 31.32917; NAD27):

Gopherus polyphemus (Gopher Tortoise) approx. 0.5 mi. N of site

Project Site at Ichawaynochaway Creek (-84.49813, 31.32874; NAD27):

Elliptioideus sloatianus (Purple Bankclimber) less than 0.1 mi. S of site, in Ichawaynochaway Creek (see Map 2)
Medionidus penicillatus (Gulf Moccasinshell) less than 0.1 mi. S of site, in Ichawaynochaway Creek (see Map 2)
Pleurobema pyriforme (Oval Pigtoe) less than 0.1 mi. S of site, in Ichawaynochaway Creek (see Map 2)

Project Site at Chickasawhatchee Creek (-84.48505, 31.32912; NAD27):

Croton elliotii (Elliott Croton) approx. 2.0 mi. SE of site
Croton elliotii (Elliott Croton) approx. 2.5 mi. S of site
Croton elliotii (Elliott Croton) approx. 2.5 mi. SE of site
Epidendrum conopseum (Green-fly Orchid) approx. 2.5 mi. SE of site
Fimbristylis perpusilla (Harper Fimbry) approx. 2.0 mi. SE of site
Fimbristylis perpusilla (Harper Fimbry) approx. 2.5 mi. SE of site
Lampsilis subangulata (Shinyrayed Pocketbook) approx. 0.5 mi. NE of site, in Chickasawhatchee Creek
Notropis harperi (Redeye Chub) approx. 1.5 mi. N of site, in Chickasawhatchee Creek
Rhexia aristosa (Awned Meadowbeauty) approx. 2.5 mi. NE of site
Joseph Jones Ecological Research Center approx. 1.0 mi. SE of site
Elmodel Wildlife Management Area on site

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411

Project Site at SR 37 (-84.42823, 31.34065; NAD27):

Croton elliotii (Elliott Croton) approx. 2.0 mi. S of site
Croton elliotii (Elliott Croton) approx. 2.5 mi. S of site
Croton elliotii (Elliott Croton) approx. 2.5 mi. SW of site
Echinodorus parvulus (Dwarf Burhead) approx. 2.5 mi. S of site
Ludwigia spathulata (Creeping Smallflower Seedbox) approx. 2.5 mi. S of site
Nerodia floridana (Florida Green Water Snake) 0.4 mi. S of site
Nerodia floridana (Florida Green Water Snake) less than 0.1 mi. SE of site (see Map 3)
Rhynchospora thornei (Thorne's Beakrush) approx. 2.5 mi. S of site
Scirpus hallii (Hall Bulrush) less than 0.1 mi. NW of site (see Map 3)

Project site at Tarva Road (-84.33188, 31.35509; NAD27):

Crataegus brachyacantha (Blueberry Hawthorn) approx. 1.0 mi. N of site
Elimia albanyensis (Black-crest Elimia) approx. 3.0 mi. S of site, in the Flint River
Elliptio arctata (Delicate Spike) approx. 1.5 mi. S of site, in Cooleewahee Creek
Elliptio nigella (Winged Spike) approx. 1.5 mi. S of site, in Cooleewahee Creek
Elliptoideus sloatianus (Purple Bankclimber) approx. 3.0 mi. S of site, in the Flint River
Graptemys barbouri (Barbour's Map Turtle) approx. 3.0 mi. S of site, in the Flint River
Haliaeetus leucocephalus (Bald Eagle) approx. 2.0 mi. SE of site
Lampsilis subangulata (Shinyrayed Pocketbook) approx. 1.5 mi. S of site, in Cooleewahee Creek
Lampsilis subangulata (Shinyrayed Pocketbook) approx. 2.0 mi. S of site, in Cooleewahee Creek
Medionidus penicillatus (Gulf Moccasinshell) approx. 3.0 mi. S of site, in the Flint River
Notropis harperi (Redeye Chub) approx. 1.5 mi. S of site, in Cooleewahee Creek
Physostegia angustifolia (Narrowleaf Obedient Plant) approx. 1.5 mi. SE of site
Pleurobema pyriforme (Oval Pigtoe) approx. 1.5 mi. S of site, in Cooleewahee Creek

Project Site at Point 3.5 miles West of Baker/Mitchell County Line (-84.28386, 31.34208; NAD27):

Elliptoideus sloatianus (Purple Bankclimber) approx. 1.0 mi. S of site, in the Flint River

Project Site North of Horseshoe Bend (-84.24458, 31.34912; NAD27):

Schwalbea americana (Chaffseed) approx. 3.0 mi. N of site

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Project Site at Walton Spring (-84.20030, 31.35371; NAD27):

Elliptoideus sloatianus (Purple Bankclimber) 0.2 mi. N of site, in the Flint River (see Map 4)
Elliptoideus sloatianus (Purple Bankclimber) approx. 3.0 mi. N of site, in the Flint River

Project Site at SR 93 (-84.07461, 31.37637; NAD27):

Evolvulus sericeus var. *sericeus* (Creeping Morning-glory) approx. 1.5 mi. S of site

Project Site at SR 133 (-83.94009, 31.39474; NAD27):

Angelica dentata (Sandhill Angelica), an imprecise location, approx. 1.0 mi. N of site

Project Site at SR 33 (-83.84458, 31.40576; NAD27):

Balduina atropurpurea (Purple Honeycomb Head) approx. 1.0 mi. SW of site
Drosera tracyi (Tracy's Dew-threads, Tracy's Threadleaf Sundew) approx. 2.0 mi. S of site
Picoides borealis (Red-cockaded Woodpecker) approx. 0.5 mi. S of site
Picoides borealis (Red-cockaded Woodpecker) approx. 2.0 mi. NW of site
Sarracenia flava (Yellow Flytrap) approx. 1.0 mi. S of site
Sarracenia psittacina (Parrot Pitcherplant) approx. 1.0 mi. S of site
Sarracenia psittacina (Parrot Pitcherplant) approx. 3.0 mi. S of site
Xyris scabrifolia (Harper Yellow-eyed Grass) approx. 2.5 mi. S of site

Project Site at Little River (-83.58118, 31.46446; NAD27):

Elyonurus tripsacoides (Pan-american Balsamscale) approx. 2.0 mi. SE of site
Sarracenia flava (Yellow Flytrap), an imprecise location, S of site
Sarracenia minor (Hooded Pitcherplant), an imprecise location, S of site

East End of FNP-to-Raccoon Creek (-83.55038, 31.47911; NAD27):

Balduina atropurpurea (Purple Honeycomb Head), an imprecise location, N of site
Oxypolis ternata (Savanna Cowbane), an imprecise location, N of site
Rhynchospora solitaria (Autumn Beakrush), an imprecise location, N of site

Special Concern Species Locations in Our Database, and Conservation Lands, within a Three Mile Radius of Joseph M. Farley Nuclear Plant Transmission Lines for License Renewal Application, Early, Baker, Mitchell, Tift, Worth, Miller, Seminole, and Decatur Counties, Georgia



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FNP-TO-SOUTH BAINBRIDGE:

Project Site at SR 39 (-84.94094, 31.16870; NAD27):

Schwalbea americana (Chaffseed), an imprecise location, SW of site

Project Site at SR 91 (-84.85303, 31.10305; NAD27):

Lobelia boykinii (Boykin Lobelia) approx. 2.0 mi. SW of site
Schwalbea americana (Chaffseed) approx. 2.5 mi. SW of site

Project Site at CR 16 (-84.77645, 31.04148; NAD27):

Sideroxylon thornei (Swamp Buckthorn) 0.3 mi. W of site (see Map 5)

Project Site at the Northern End of the Stretch of Corridor that Runs along the Seminole/Decatur County Line (-84.75367, 31.02321; NAD27):

Coreopsis integrifolia (Tickseed) approx. 1.0 mi. NE of site
Epidendrum conopseum (Green-fly Orchid) approx. 1.0 mi. NE of site
Litsea aestivalis (Pondspice) approx. 1.0 mi. NE of site

Project Site along Seminole/Decatur County Line NW of Brinson (-84.75449, 30.98823; NAD27):

Elliptio purpurella (Inflated Spike) approx. 1.0 mi. SE of site, in Spring Creek
Lampsilis subangulata (Shinyrayed Pocketbook) approx. 1.0 mi. SE of site, in Spring Creek
Lythrum curtissii (Curtiss Loosestrife) approx. 1.5 mi. S of site (see Map 6)
Macrochelys temminckii (Alligator Snapping Turtle) approx. 0.5 mi. NE of site, in Spring Creek (see Map 6)
Notropis harperi (Redeye Chub) approx. 0.5 mi. SE of site, in Spring Creek (see Map 6)
Sideroxylon thornei (Swamp Buckthorn) approx. 1.5 mi. SE of site
Villosa villosa (Downy Rainbow) approx. 1.0 mi. SE of site, in Spring Creek



Project Site at Spring Creek (-84.74502, 30.94185; NAD27):

Elliptio purpurella (Inflated Spike) approx. 2.0 mi. S of site, in Lake Seminole
Gratemys barbouri (Barbour's Map Turtle) less than 0.1 mi. N of site, in Spring Creek (see
Map 7)
Lampsilis subangulata (Shinyrayed Pocketbook) approx. 2.0 mi. S of site, in Lake Seminole
Macrochelys temminckii (Alligator Snapping Turtle) less than 0.1 mi. N of site, in Spring
Creek (see Map 7)
Medionidus penicillatus (Gulf Moccasinshell) approx. 1.0 mi. N of site, in Spring Creek
Micromeria brownei var. *pilosiuscula* (Savory) approx. 0.5 mi. N of site
Pleurobema pyriforme (Oval Pigtoe) approx. 1.0 mi. N of site, in Spring Creek
Cave approx. 1.0 mi. S of site

Project Site at SR 253 (-84.62664, 30.88798; NAD27):

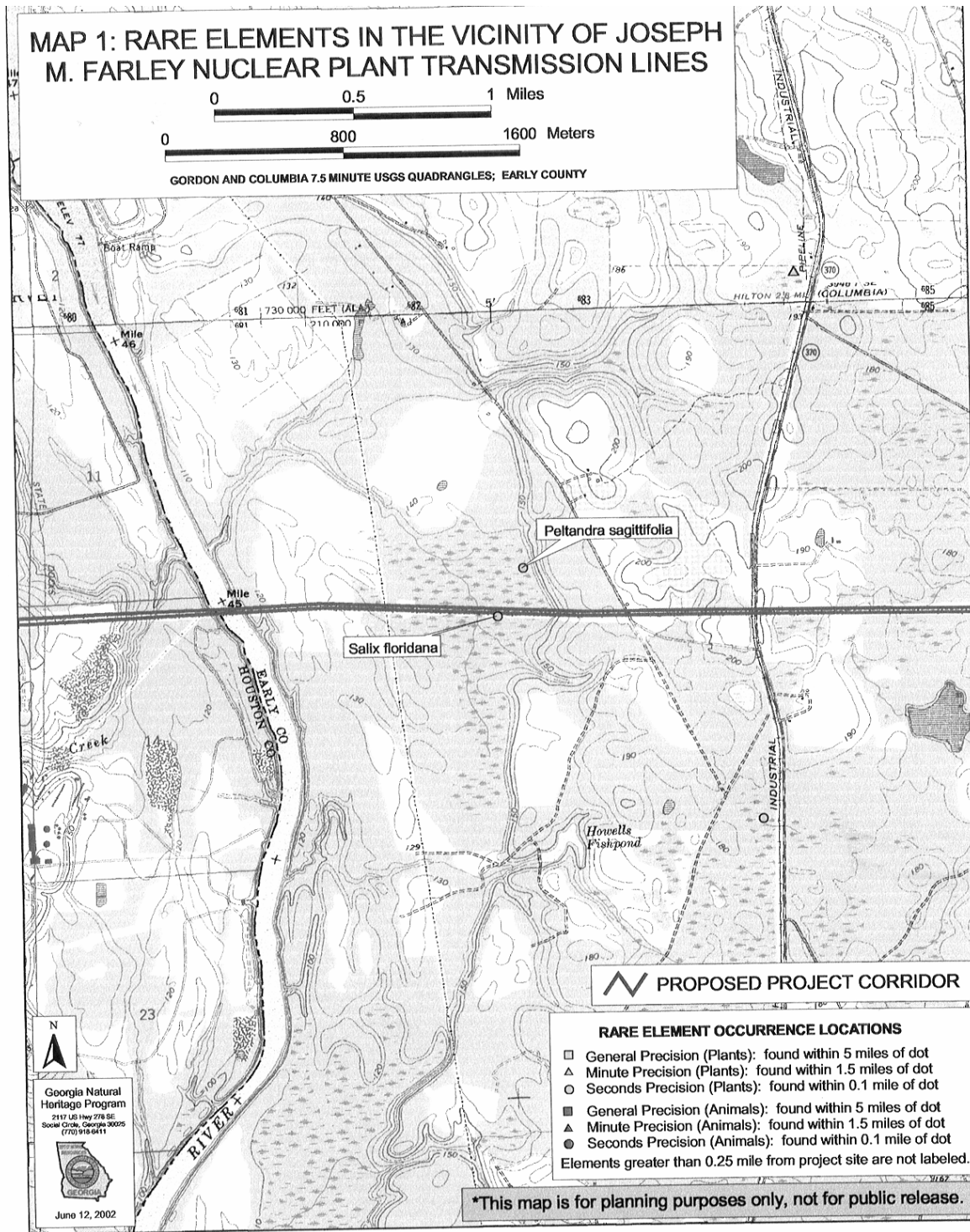
Gratemys barbouri (Barbour's Map Turtle) approx. 2.0 mi. NE of site, in the Flint River
Haliaeetus leucocephalus (Bald Eagle) approx. 2.0 mi. SW of site
Lake Seminole Wildlife Management Area approx. 0.5 mi. E of site

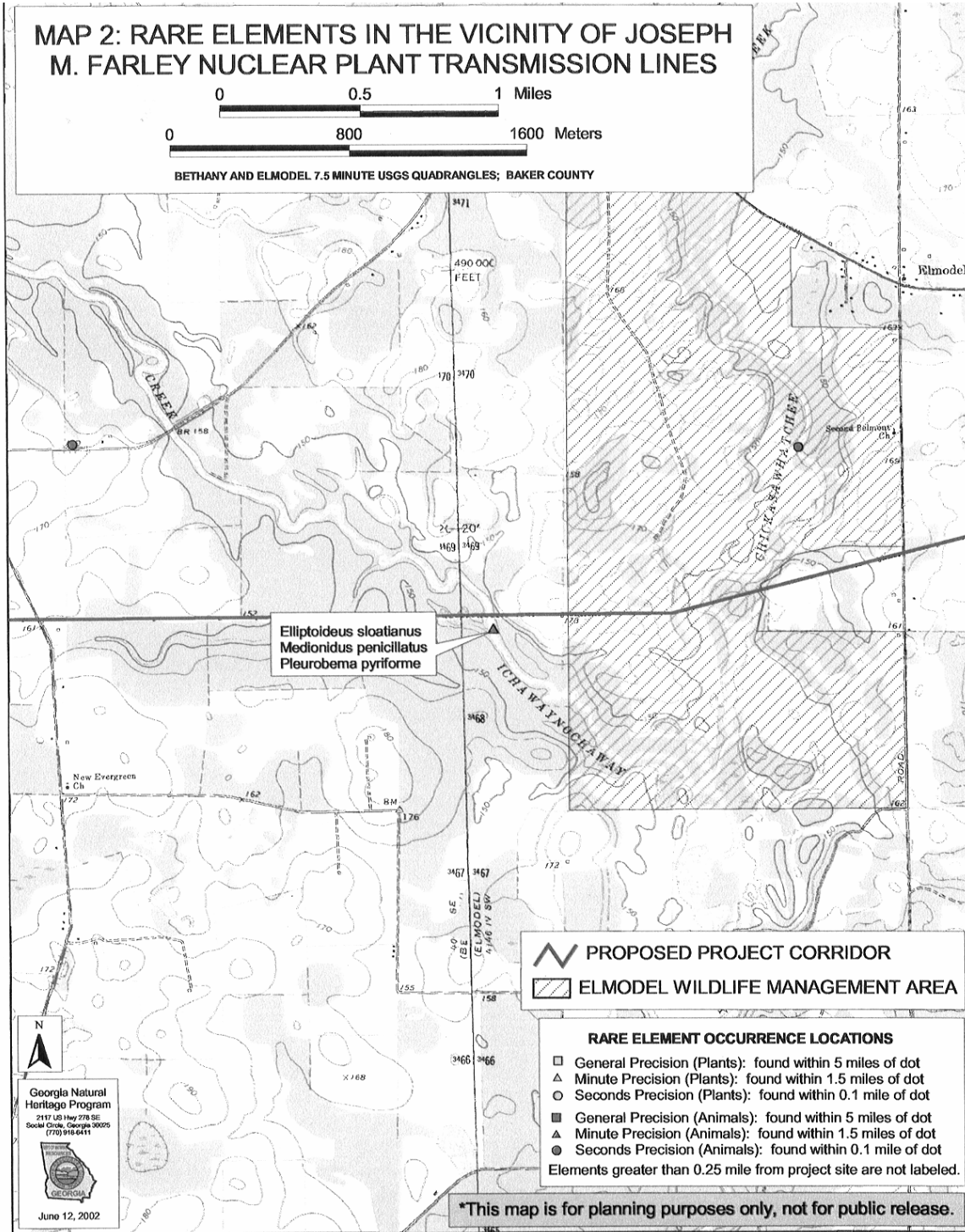
Project Site at SR 97 (-84.60174, 30.87446; NAD27):

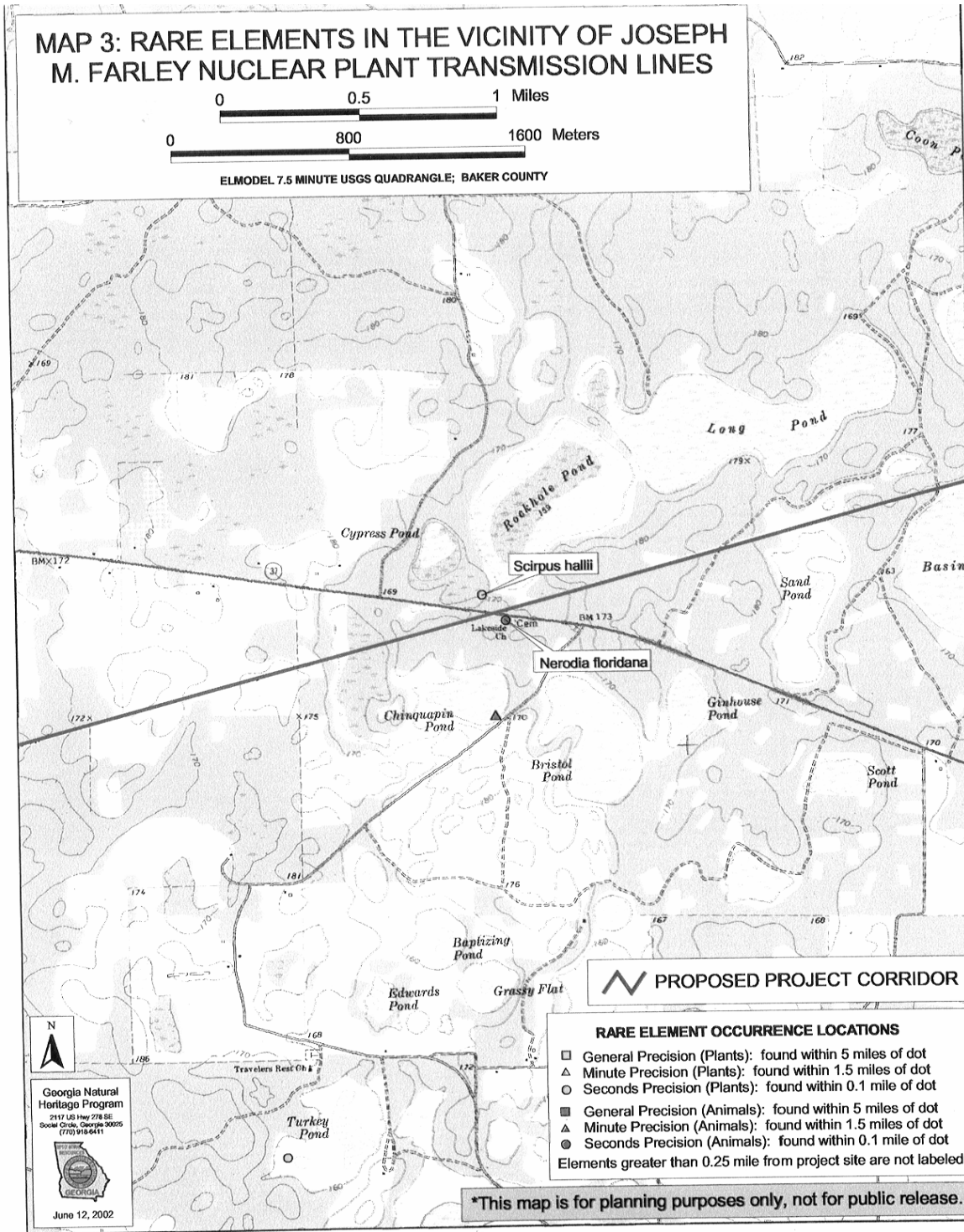
Alasmidonta triangulata (Southern Elktoe) approx. 2.5 mi. NE of site, in the Flint River
Elliptioideus sloatianus (Purple Bankclimber) approx. 2.5 mi. NE of site, in the Flint River
Elliptioideus sloatianus (Purple Bankclimber) approx. 3.0 mi. NE of site, in the Flint River
Lampsilis subangulata (Shinyrayed Pocketbook) approx. 2.5 mi. NE of site, in the Flint
River
Macrochelys temminckii (Alligator Snapping Turtle) approx. 1.5 mi. N of site, in the Flint
River
Medionidus penicillatus (Gulf Moccasinshell) approx. 2.5 mi. NE of site, in the Flint River
Utterbackia peggyae (Florida Floater) approx. 1.5 mi. SW of site, in Fourmile Creek
Utterbackia peggyae (Florida Floater) approx. 2.5 mi. N of site, in the Flint River
Villosa villosa (Downy Rainbow) approx. 1.5 mi. SW of site, in Fourmile Creek
Lake Seminole WMA approx. 1.0 mi. SW of site

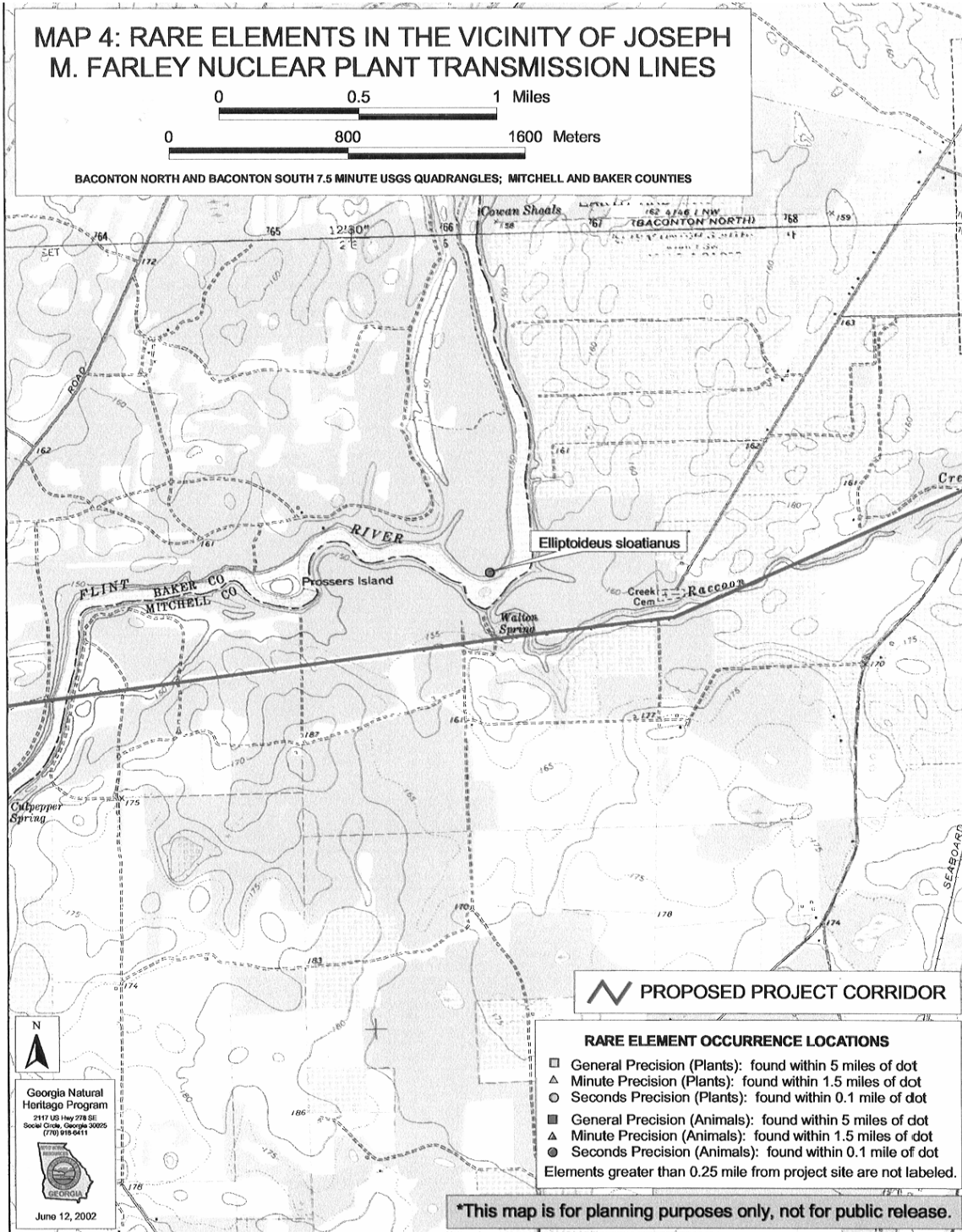
Project Site at SR 309 (-84.56805, 30.85591; NAD27):

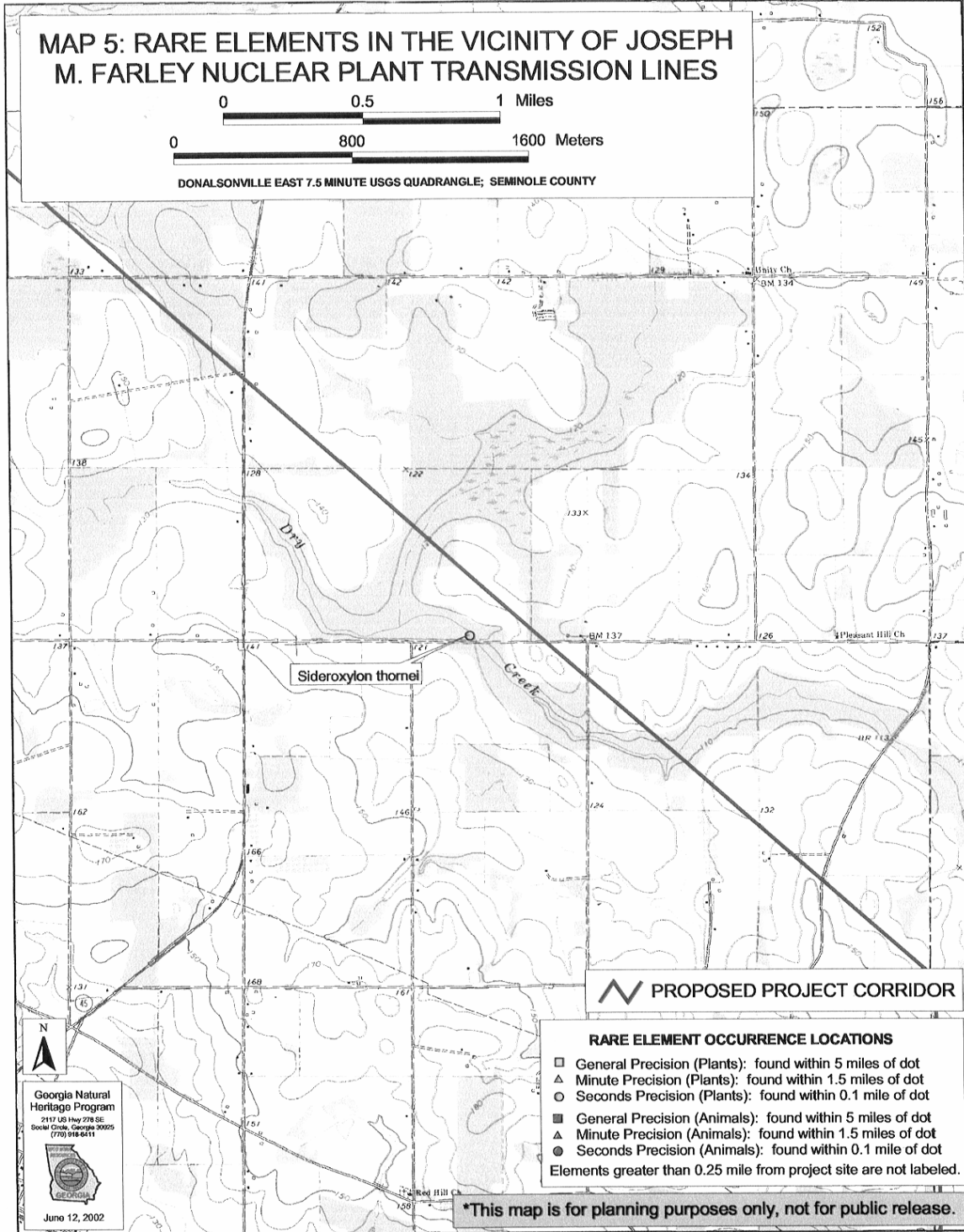
Elliptio arctata (Delicate Spike) less than 0.1 mi. W of site, in Fourmile Creek (see Map 8)
Scirpus erismanae (Bulrush) approx. 2.5 mi. NE of site
Utterbackia peggyae (Florida Floater) less than 0.1 mi. W of site, in Fourmile Creek (see
Map 8)

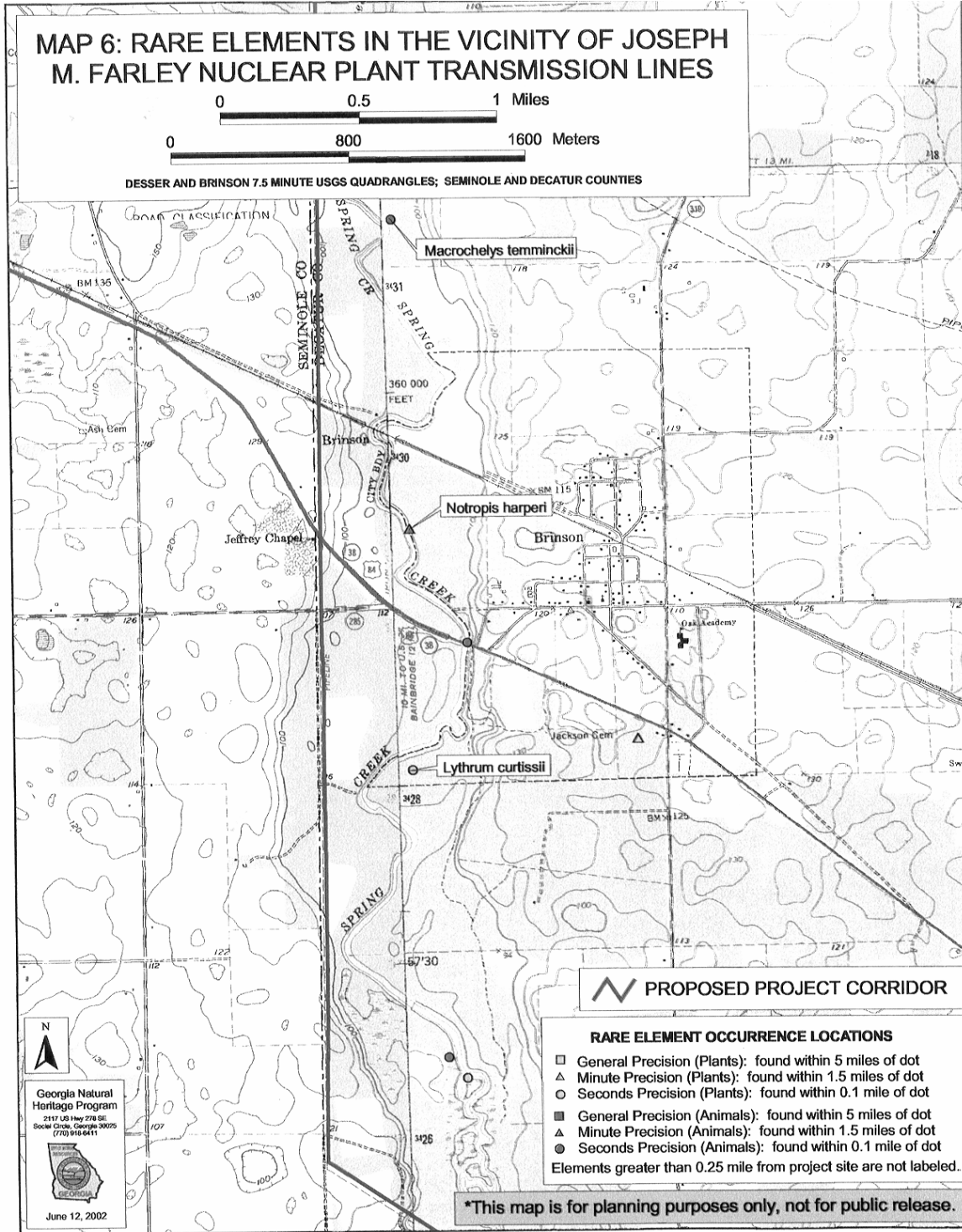


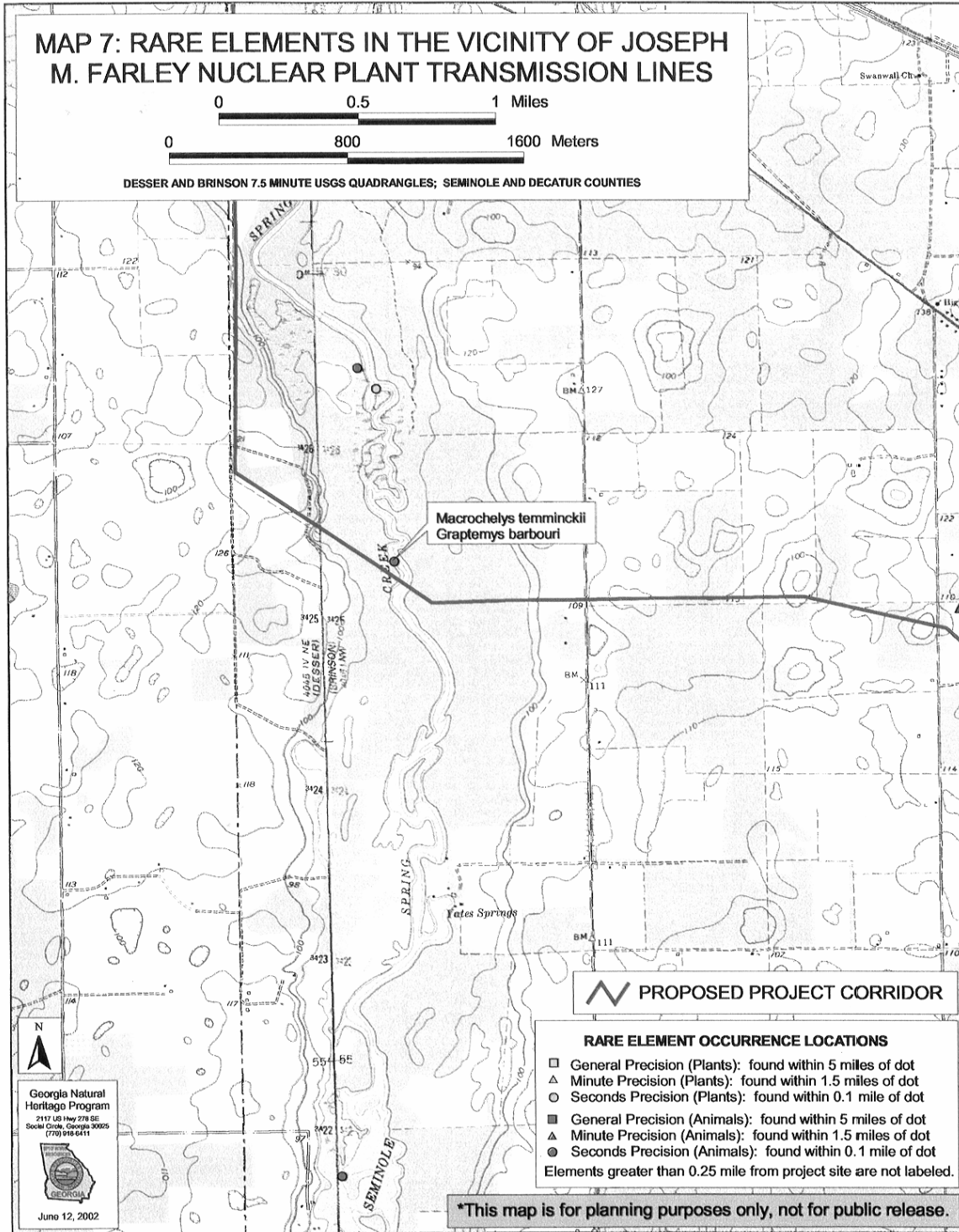


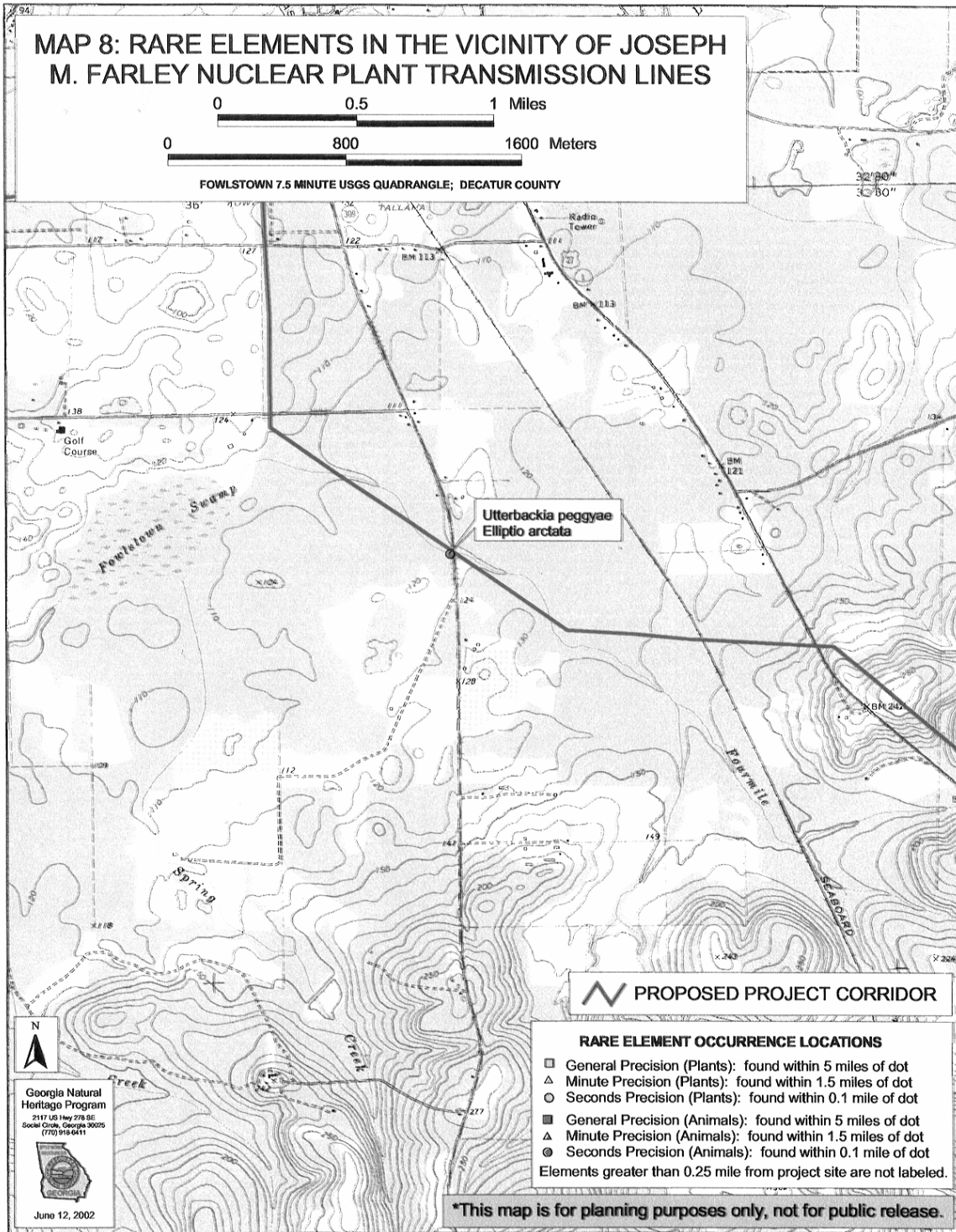












*Appendix D - Applicant's Environmental Report
Attachment C Special-Status Species Correspondence*

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Special Concern Animals Potentially Occurring in Tift County

30 Taxa in List

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Acantharchus pomotis MUD SUNFISH	G5	S3			Blackwater streams; bays; cypress/gum ponds
Aimophila aestivalis BACHMAN'S SPARROW	G3	S3		R	Open pine or oak woods; old fields; brushy areas
Alosa alabamae ALABAMA SHAD	G4	S1		U	Brownwater & blackwater streams
Ambystoma cingulatum FLATWOODS SALAMANDER	G2G3	S3		R	Pine flatwoods; moist savannas; cypress/gum ponds
Ameiurus serracanthus SPOTTED BULLHEAD	G3	S2		R	Blackwater & brownwater streams; reservoirs
Ammodramus henslowii HENSLOW'S SPARROW	G3G4	S3			Fields; meadows
Cyprinella leedsi BANNERFIN SHINER	G3	S3S4			Blackwater & brownwater streams
Drymarchon corais couperi EASTERN INDIGO SNAKE	G4T3	S3	LT	T	Sandhills; pine flatwoods; dry hammocks
Elanoides forficatus AMERICAN SWALLOW-TAILED KITE	G5	S2		R	River swamps; marshes
Enneacanthus chaetodon BLACKBANDED SUNFISH	G5	S1S2		R	Blackwater streams; bays; cypress/gum ponds
Etheostoma edwini BROWN DARTER	G5	S3			Blackwater & brownwater streams; springs
Etheostoma parvipinne GOLDSTRIPE DARTER	G4G5	S2		R	Blackwater & brownwater streams; springs
Eumeces egregius MOLE SKINK	G4	S3			Coastal dunes; longleaf pine-turkey oak woods; dry hammocks
Farancia erythrogramma RAINBOW SNAKE	G5	S3			River swamps; springs; sandy fields near water
Gopherus polyphemus GOPHER TORTOISE	G3	S3		T	Sandhills; dry hammocks; longleaf pine-turkey oak woods
Heterodon simus SOUTHERN HOGNOSE SNAKE	G4G5	S3			Open, sandy woods; fields; floodplains
Kinosternon baurii STRIPED MUD TURTLE	G5	S3			River swamps; sloughs; ponds; marshes
Lasiurus intermedius NORTHERN YELLOW BAT	G4G5	S2S3			Wooded areas near open water or fields
Micrurus fulvius EASTERN CORAL SNAKE	G5	S3			Hardwood forests; pine flatwoods; dry hammocks; marshes
Mycteria americana WOOD STORK	G4	S2	LENL	E	Cypress/gum ponds; marshes; river swamps; bays
Notophthalmus perstriatus STRIPED NEWT	G2G3	S2		R	Pine flatwoods; ponds; ditches
Nyctanassa violacea YELLOW-CROWNED NIGHT- HERON	G5	S3S4			River swamps; marshes; cypress/gum ponds

Appendix D - Applicant's Environmental Report
Attachment C Special-Status Species Correspondence

Sent By: GA-DNR, Wildlife Resources Divi; 706 557 3033;

Sep-9-02 15:58;

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Special Concern Animals Potentially Occurring in Tift County

30 Taxa in List

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Nycticorax nycticorax</i> BLACK-CROWNED NIGHT- HERON	G5	S3S4			River swamps; marshes; cypress/gum ponds
<i>Ophisaurus mimicus</i> MIMIC GLASS LIZARD	G3	S2			Pine flatwoods
<i>Pandion haliaetus</i> OSPREY	G5	S3			Lakes; rivers; seacoasts
<i>Picoides borealis</i> RED-COCKADED WOODPECKER	G3	S2	LE	E	Open pine woods; pine savannas
<i>Pituophis melanoleucus mugilus</i> FLORIDA PINE SNAKE	G5T3?	S3			Upland forests; grasslands; floodplains; old field
<i>Pseudotriton montanus</i> MUD SALAMANDER	G5	S3			Swamps; muddy seeps; springs
<i>Pteronotopia hypselopterus</i> SAILFIN SHINER	G5	S3			Blackwater & brownwater streams
<i>Rana capito</i> GOPHER FROG	G4	S?	C		Floodplains; wet meadows; pastures; ponds

Appendix D - Applicant's Environmental Report
Attachment C Special-Status Species Correspondence

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Special Concern Plants Potentially Occurring in Tift County

59 Taxa in List

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Agalinis aphylla SCALE-LEAF PURPLE FOXGLOVE	G3G4	S2S3?			Longleaf pine-wiregrass savannas; pine flatwoods
Agalinis filicaulis SPINDLY PURPLE FOXGLOVE	G3G4	S2?			Seasonally wet, longleaf pine- wiregrass savannas; grassy pine barrens
Agrimonia incisa CUTLEAF AGRIMONY; CUTLEAF HARVEST LICE	G3	S3			Mixed oak-hickory forests, pine savannas, mesic hardwood forests
Amphicarpum muehlenbergianum BLUE MAIDENCANE, FLORIDA GOOBER GRASS	G4	S3?			Pine flatwoods
Andropogon mohrii BOG BLUESTEM	G4?	S2?			Longleaf pine-wiregrass savannas; pine-cypress savannas
Apteria aphylla NODDING NIXIE	G4	S3			Mesic hardwoods or magnolia-beech bluff forests
Asplenium heteroresiliens WAGNER SPLEENWORT	G2Q	S1		T	Limestone outcrops; marl
Balduina atropurpurea PURPLE HONEYCOMB HEAD	G2G3	S2		R	Wet savannas, pitcherplant bogs
Callirhoe papaver WOODS POPPY-MALLOW	G5	S2S3			Openings in oak-pine forests
Carex dasycarpa VELVET SEDGE	G4?	S3		R	Evergreen hammocks; mesic hardwood forests
Croton elliotii ELLIOTT CROTON	G2G3	S2S3			Pond margins and wet savannas
Delphinium carolinianum CAROLINA LARKSPUR	G5	S3			Granite outcrops; rocky, calcareous oak forests; Altamaha Grit outcrops
Elliottia racemosa GEORGIA PLUME	G2G3	S2S3		T	Scrub forests; Altamaha Grit outcrops; open forests over ultramafic rock
Epidendrum conopseum GREEN-FLY ORCHID	G3G4	S3		U	Epiphytic in bottomland hardwoods and magnolia-beech bluff forests, also Altamaha Grit outcrops
Eriocaulon texense TEXAS PIPEWORT	G4	S2?			Altamaha grit outcrops; wet pine savannas
Evolvulus sericeus var. sericeus CREEPING MORNING-GLORY	G5T?	S1		E	Altamaha Grit outcrops; open calcareous uplands
Fimbristylis perpusilla HARPER FIMBRY	G2G3	S1		E	Exposed muddy margins of pineland ponds
Habenaria quinqueseta var. quinqueseta MICHAX ORCHID	G4G5T?	S1			Moist shade, Altamaha Grit outcrops; open pine woods
Ilex amelanchier SERVICEBERRY HOLLY	G4	S2			Wet, sandy thickets; cypress-gum swamps
Isoetes boomii BOOM QUILLWORT	G1Q	S1			Shallow water (one foot deep) of slow moving streams

Appendix D - Applicant's Environmental Report
Attachment C Special-Status Species Correspondence

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Special Concern Plants Potentially Occurring in Tift County
Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Isoetes georgiana</i> GEORGIA QUILLWORT	G1Q	S2S3?			In floodplain woods on seasonally wet or inundated margins of braided streams
<i>Krameria lanceolata</i> SANDBUR	G5	S3?			Longleaf pine-wiregrass sandridges
<i>Leitneria floridana</i> CORKWOOD	G2G3	S1			Swamps; sawgrass-cabbage palmetto marshes
<i>Lindera melissifolia</i> PONDBERRY	G2	S1	LE	E	Pond margins and wet savannas
<i>Litsea aestivalis</i> PONDSPICE	G3	S2		T	Cypress ponds; swamp margins
<i>Lobelia boykinii</i> BOYKIN LOBELIA	G2	S2S3			Cypress ponds and wet savannas
<i>Macbridea caroliniana</i> CAROLINA BOGMINT	G2G3	S1?			Bogs; marshes; alluvial woods
<i>Macranthera flammea</i> FLAME FLOWER	G3	S2?			Wet, sandy thickets; pitcherplant bogs
<i>Marshallia ramosa</i> PINELAND MARSHALLIA	G2	S2		R	Altamaha Grit outcrops; open forests over ultramafic rock
<i>Myrica inodora</i> ODORLESS BAYBERRY	G4	S2?			Bayheads, liti swamps
<i>Myriophyllum laxum</i> LAX WATER-MILFOIL	G3	S2		T	Bluehole spring runs; shallow, sandy, swift-flowing creeks; clear, cool ponds
<i>Oxypolis ternata</i> TERNATE COWBANE	G3	S2			Wet pine savannas and bogs
<i>Paronychia rugellii</i> var. <i>interior</i> RUGEL NAILWORT	G2?T2?Q	S2?			Longleaf pine-turkey oak scrub, mostly Alapaha River drainage
<i>Penstemon dissectus</i> GRIT BEARDTONGUE	G2?	S2		R	Altamaha Grit outcrops and adjacent pine savannas; rarely sandridges
<i>Pteris phillyrifolia</i> CLIMBING HEATH	G3?	S3			Cypress ponds; epiphytic on cypress bark
<i>Platanthera integra</i> YELLOW FRINGELESS ORCHID	G4	S2			Wet savannas, pitcherplant bogs
<i>Platanthera nivea</i> SNOWY ORCHID	G5	S3			Wet savannas, pitcherplant bogs
<i>Rhexia aristosa</i> AWNED MEADOWBEAUTY	G3	S2			Pond margins and wet savannas
<i>Rhododendron austrinum</i> FLORIDA AZALEA	G3G4	S3			Hardwood-spruce pine forests; low woods
<i>Rhynchospora macro</i> SOUTHERN WHITE BEAKRUSH	G3G4	S1?			Seepage slopes; wet savannas
<i>Rhynchospora oligantha</i> FEATHER-BRISTLE BEAKRUSH	G4	S1?			Bogs
<i>Rhynchospora punctata</i> PINELAND BEAKRUSH	G1?	S1?			Wet savannas, pitcherplant bogs
<i>Rhynchospora solitaria</i> AUTUMN BEAKRUSH	G1	S1			Wet, sandy, peaty depressions

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Special Concern Plants Potentially Occurring in Tift County

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Rudbeckia nitida var. nitida YELLOW CONEFLOWER	G3?T1T3	S3?			Wet savannas, pitcherplant bogs; cypress ponds
Sarracenia flava YELLOW FLYTRAP	G4G5	S3S4		U	Wet savannas, pitcherplant bogs
Sarracenia leucophylla WHITETOP PITCHERPLANT	G3	SH		E	Wet savannas, pitcherplant bogs
Sarracenia minor HOODED PITCHERPLANT	G4	S4		U	Wet savannas, pitcherplant bogs
Sarracenia psittacina PARROT PITCHERPLANT	G4	S2S3		T	Wet savannas, pitcherplant bogs
Schizachyrium stoloniferum BLUESTEM	G3G4Q	S2?			Longleaf pine-wiregrass savannas
Schwalbea americana CHAFFSEED	G2	S1	LE	E	Ponds margins and wet savannas; upland ridge forests
Sideroxylon thornei SWAMP BUCKTHORN	G2	S2		E	Forested limesink depressions; calcareous swamps
Sporobolus teretifolius WIRE-LEAF DROPSEED	G1G2	S2?			Longleaf pine-wiregrass savannas, pitcherplant bogs
Stewartia malacodendron SILKY CAMELLIA	G4	S2		R	Steepheads, bayheads; edges of swamps
Stokesia laevis STOKES ASTER	G5	S1			Pitcherplant bogs
Thalictrum cooleyi COOLEY MEADOWRUE	G1	S1Q	LE	E	Pond margins and wet savannas
Trillium reliquum RELICT TRILLIUM	G2	S2	LE	E	Mesic hardwood forests; limesink forests
Uvularia floridana FLORIDA BELLWORT	G3?	S3?			Mixed oak-hickory forests; mesic hardwoods or magnolia-beech bluff forests
Xyris drummondii DRUMMOND YELLOW-EYED GRASS	G3	S1			Pine flatwoods
Xyris scabrifolia HARPER YELLOW-EYED GRASS	G3	S1			Sedge bogs; pitcherplant bogs; pine flatwoods

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Special Concern Animals Potentially Occurring in Grady County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Acantharchus pomotis MUD SUNFISH	G5	S3			Blackwater lentic and lotic habitats with mud, silt, or detritus substrate
Aimophila aestivalis BACHMAN'S SPARROW	G3	S3		R	Open pine or oak woods; old fields; brushy areas
Alosa alabamae ALABAMA SHAD	G3	S1	C	U	Saltwater; coastal rivers in moderate current
Ambystoma cingulatum FLATWOODS SALAMANDER	G2G3	S3	LT	T	Pine flatwoods; moist savannas; cypress/gum ponds
Ameiurus serracanthus SPOTTED BULLHEAD	G3	S2		R	Large streams and rivers with moderate current and rock-sand substrate
Ammodramus henslowii HENSLOW'S SPARROW	G4	S3			Wet shrubby fields and weedy meadows
Amphiuma pholeter ONE-TOED AMPHIUMA	G3	S1		R	Organic mucky/muddy, shallow creeks; temporary pools and streams
Cyprinella leedsii BANNERFIN SHINER	G4	S3S4			Medium to large rivers in flowing water over sandy to rocky substrate
Elanoides forficatus SWALLOW-TAILED KITE	G5	S2		R	River swamps; marshes
Etheostoma edwini BROWN DARTER	G5	S3			Small to moderate sized flowing streams in root masses or aquatic vegetation
Etheostoma parvipinne GOLDSTRIPE DARTER	G4G5	S2		R	Small sluggish streams and spring seepage areas in woody debris, leaf material, mud, and silt
Etheostoma swaini GULF DARTER	G5	S3			Small to medium streams with moderate current over substrates of sand and detritus
Eumeces egregius MOLE SKINK	G4	S3	(PS)		Coastal dunes; longleaf pine-turkey oak woods; dry hammocks
Falco sparverius paulus SOUTHEASTERN AMERICAN KESTREL	G5T4	S3			Pine forests; pine savannas
Farancia erythrogramma RAINBOW SNAKE	G5	S3			River swamps; springs; sandy fields near water
Fundulus auroguttatus BANDED TOPMINNOW	G4	S3		R	Blackwater streams; ponds; bays; freshwater marshes
Fundulus chrysotus GOLDEN TOPMINNOW	G5	S3			Blackwater streams, ponds, bays, brackish streams with extensive aquatic vegetation
Fundulus escambiae EASTERN STARHEAD TOPMINNOW	G4	S3			Vegetated areas of sluggish streams, backwaters, and swamps
Gopherus polyphemus GOPHER TORTOISE	G3	S3	(PS:LT)	T	Sandhills; dry hammocks; longleaf pine-turkey oak woods
Haideotriton wallacei GEORGIA BLIND SALAMANDER	G2	S1		T	Caves & underground streams
Heterodon simus SOUTHERN HOGNOSE SNAKE	G2	S2			Open, sandy woods; fields; floodplains

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Special Concern Animals Potentially Occurring in Grady County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Ichthyomyzon gagei</i> SOUTHERN BROOK LAMPREY	G5	S3			Creeks to small rivers with sand or sand and gravel substrate
<i>Kinosternon baurii</i> STRIPED MUD TURTLE	G5	S3			River swamps; sloughs; ponds; marshes
<i>Lasiurus intermedius</i> NORTHERN YELLOW BAT	G4G5	S2S3			Wooded areas near open water or fields
<i>Lepisosteus oculatus</i> SPOTTED GAR	G5	S1			Weedy areas of clear backwaters and oxbow lakes
<i>Lucania parva</i> RAINWATER KILLIFISH	G5	S1			Fresh to brackish estuarine areas in vegetation
<i>Macrochelys temminckii</i> ALLIGATOR SNAPPING TURTLE	G3G4	S3		T	Rivers; lakes; large ponds near streams, swamps
<i>Micropterus notius</i> SUWANNEE BASS	G3	S1		R	Flowing water over rocky shoals or large springs and spring runs
<i>Micrurus fulvius fulvius</i> EASTERN CORAL SNAKE	G5T5	S3			Hardwood forests; pine flatwoods; dry hammocks; marshes
<i>Mycteria americana</i> WOOD STORK	G4	S2	(PS LE)	E	Cypress/gum ponds; marshes; river swamps, bays
<i>Myotis austroriparius</i> SOUTHEASTERN MYOTIS	G3G4	S3			Caves & buildings near water
<i>Necturus sp. cf. beyeri</i> GULF COAST WATERDOG	G4	S3			Habitat data is not available
<i>Nerodia floridana</i> FLORIDA GREEN WATER SNAKE	G5	S2			Swamps; marshes; limesink ponds; bays
<i>Nyctanassa violacea</i> YELLOW-CROWNED NIGHT-HERON	G5	S3S4			River swamps; marshes; cypress/gum ponds
<i>Nycticorax nycticorax</i> BLACK-CROWNED NIGHT-HERON	G5	S3S4			River swamps; marshes; cypress/gum ponds
<i>Pandion haliaetus</i> OSPREY	G5	S3			Lakes; rivers; seacoasts
<i>Picoides borealis</i> RED-COCKADED WOODPECKER	G3	S2	LE	E	Open pine woods; pine savannas
<i>Pseudobranchius striatus</i> DWARF SIREN	G5	S3			Swamps; marshes; limesink ponds; bays
<i>Pseudotriton montanus</i> MUD SALAMANDER	G5	S4			Swamps; muddy seeps; springs
<i>Pteronotropsis hypselopterus</i> SAILFIN SHINER	G5	S3			Flowing areas of small clear streams over sand substrate; often associated with woody debris or vege
<i>Pteronotropsis weikae</i> BLUENOSE SHINER	G3G4	S1		R	Quiet backwaters and vegetated pools of streams and rivers
<i>Seminatrix pygaea</i> BLACK SWAMP SNAKE	G5	S3			Swamps; ponds; marshes, lakes

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Special Concern Plants Potentially Occurring in Dougherty County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Agrimonia incisa</i> CUTLEAF AGRIMONY; CUTLEAF HARVEST LICE	G3	S3			Mixed oak-hickory forests, pine savannas, mesic hardwood forests
<i>Armoracia lacustris</i> LAKE-CRESS	G4?	S1?			Shallow water of swamps and lake margins
<i>Asplenium heteroresiliens</i> WAGNER SPLEENWORT	G2Q	S1		T	Limestone and marl outcrops; tabby ruins
<i>Callirhoe papaver</i> WOODS POPPY-MALLOW	G5	S2S3			Openings in oak-pine forests
<i>Carex dasycarpa</i> VELVET SEDGE	G4?	S3		R	Evergreen hammocks; mesic hardwood forests
<i>Ceanothus microphyllus</i> SANDHILL CEANOTHUS	G4G5	S3			Longleaf pine-wiregrass savannas
<i>Croton elliotii</i> ELLIOTT CROTON	G2G3	S2S3			Pond margins and wet savannas
<i>Epidendrum conopseum</i> GREEN-FLY ORCHID	G4	S3		U	Epiphytic on limbs of evergreen hardwoods; also in crevices of Altamaha Grit outcrops
<i>Fimbristylis perpusilla</i> HARPER FIMBRY	G2	S1		E	Exposed muddy margins of pineland ponds
<i>Leitneria floridana</i> CORKWOOD	G3	S1			Swamps; sawgrass-cabbage palmetto marshes
<i>Lindera melissifolia</i> PONDBERRY	G2	S1	LE	E	Pond margins and wet savannas
<i>Litsea aestivalis</i> PONDSPICE	G3	S2		T	Cypress ponds; swamp margins
<i>Lobelia boykinii</i> BOYKIN LOBELIA	G2G3	S2S3			Cypress ponds and wet savannas
<i>Oxypolis canbyi</i> CANBY DROPWORT	G2	S2	LE	E	Cypress ponds and sloughs; wet savannas
<i>Panicum hirstii</i> HIRST PANIC GRASS	G1	SH	C	E	Cypress ponds, wet savannas and sloughs
<i>Plantago sparsiflora</i> PINELAND PLANTAIN	G3	S2			Open, wet pine savannas; shallow ditches
<i>Pteroglossaspis ecristata</i> WILD COCO	G2	S1			Grassy saw palmetto barrens; longleaf pine grasslands, sometimes with <i>Schwalbea americana</i>
<i>Rhexia aristosa</i> AWNED MEADOWBEAUTY	G3	S2			Pond margins and wet savannas
<i>Rhododendron austrinum</i> FLORIDA AZALEA	G3	S3			Hardwood-spruce pine forests; low woods
<i>Sarracenia flava</i> YELLOW FLYTRAP	G5?	S3S4		U	Wet savannas, pitcherplant bogs
<i>Sarracenia leucophylla</i> WHITETOP PITCHERPLANT	G3	SH		E	Wet savannas, pitcherplant bogs
<i>Sarracenia minor</i> HOODED PITCHERPLANT	G4	S4		U	Wet savannas, pitcherplant bogs

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Sarracenia peltata</i> PARROT PITCHERPLANT	G4	S2S3		T	Wet savannas, pitcherplant bogs
<i>Schwalbea americana</i> CHAFFSEED	G2	S1	LE	E	Ponds margins and wet savannas; upland ridge forests
<i>Scirpus hallii</i> HALL BULRUSH	G2	SH			Pond shores in peaty sands
<i>Sideroxylon thomei</i> SWAMP BUCKTHORN	G2	S2		E	Forested limesink depressions, calcareous swamps
<i>Sium floridanum</i> FLORIDA WATER-PARSNIP	G1Q	S17			Calcareous swamps, floodplains
<i>Stewartia malacodendron</i> SILKY CAMELLIA	G4	S2		R	Steepheads, bayheads, edges of swamps
<i>Stylisma pickeringii</i> var. <i>pickeringii</i> PICKERING MORNING-GLORY	G4T2T3	S2		T	Open, dry, oak scrub of sandhills
<i>Thalictrum cooleyi</i> COOLEY MEADOWRUE	G1	S1	LE	E	Pond margins and wet savannas
<i>Trillium reliquum</i> RELICT TRILLIUM	G2	S2	LE	E	Mesic hardwood forests, limesink forests
<i>Uvularia floridana</i> FLORIDA BELLWORT	G3	S37			Mixed oak-hickory forests; mesic hardwoods or magnolia-beech bluff forests
<i>Xyris scabrifolia</i> HARPER YELLOW-EYED GRASS	G3	S1			Sedge bogs, pitcherplant bogs; pine flatwoods
<i>Zanthoxylum americanum</i> NORTHERN PRICKLY-ASH	G5	S17			Rocky, openly wooded slopes; river banks and terraces

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Special Concern Animals Potentially Occurring in Dougherty County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Aimophila aestivalis</i> BACHMAN'S SPARROW	G3	S3		R	Open pine or oak woods; old fields; brushy areas
<i>Alosa alabamae</i> ALABAMA SHAD	G3	S1	C	U	Saltwater; coastal rivers in moderate current
<i>Amblema neislerii</i> FAT THREEERIDGE	G1	SX	LE	E	Small to large rivers with moderate current and muddy sand substrate
<i>Ambystoma cingulatum</i> FLATWOODS SALAMANDER	G2G3	S3	LT	T	Pine flatwoods; moist savannas; cypress/gum ponds
<i>Ameiurus serracanthus</i> SPOTTED BULLHEAD	G3	S2		R	Large streams and rivers with moderate current and rock-sand substrate
<i>Ammodramus henslowii</i> HENSLOWS SPARROW	G4	S3			Wet shrubby fields and weedy meadows
<i>Cyprinella callitaenia</i> BLUESTRIPE SHINER	G2G3	S2		T	Flowing areas in large creeks and medium-sized rivers over rocky substrates
<i>Elanoides forficatus</i> SWALLOW-TAILED KITE	G5	S2		R	River swamps; marshes
<i>Elimia albanyensis</i> BLACK-CREST ELIMIA	G5	SH			Slackwater habitats in medium-sized rivers
<i>Elliptio arctata</i> DELICATE SPIKE	G4Q	S3			Large rivers and creeks with some current in sand and sand and limestone rock substrates
<i>Elliptio fraterna</i> BROTHER SPIKE	G1G2Q	S1			Sandy substrates of river channels with swift current
<i>Elliptio nigella</i> WINGED SPIKE	GH	SX			Spring influenced streams with substrate of sand and limestone rock
<i>Elliptio purpurella</i> INFLATED SPIKE	G3	S2			Sand and limestone rock substrates
<i>Elliptoideus sloatianus</i> PURPLE BANKCLIMBER	G2	S2	LT	T	Small to large rivers with moderate current and substrate of sand, fine gravel, or muddy sand
<i>Etheostoma edwini</i> BROWN DARTER	G5	S3			Small to moderate sized flowing streams in root masses or aquatic vegetation
<i>Etheostoma parvipinne</i> GOLDSTRIPE DARTER	G4G5	S2		R	Small sluggish streams and spring seepage areas in woody debris, leaf material, mud, and silt
<i>Eumeces egregius</i> MOLE SKINK	G4	S3	(PS)		Coastal dunes; longleaf pine-turkey oak woods; dry hammocks
<i>Farancia erythrogramma</i> RAINBOW SNAKE	G5	S3			River swamps; springs; sandy fields near water
<i>Fundulus chrysotus</i> GOLDEN TOPMINNOW	G5	S3			Blackwater streams, ponds, bays, brackish streams with extensive aquatic vegetation
<i>Fundulus escambiae</i> EASTERN STARHEAD TOPMINNOW	G4	S3			Vegetated areas of sluggish streams, backwaters, and swamps
<i>Gopherus polyphemus</i> GOPHER TORTOISE	G3	S3	(PS:LT)	T	Sandhills; dry hammocks; longleaf pine-turkey oak woods

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-8411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Graptemys barbouri</i> BARBOUR'S MAP TURTLE	G2	S2		T	Rivers & creeks Apalachicola River drainage
<i>Haideotriton wallacei</i> GEORGIA BLIND SALAMANDER	G2	S1		T	Caves & underground streams
<i>Heterodon simus</i> SOUTHERN HOGNOSE SNAKE	G2	S2			Open, sandy woods, fields; floodplains
<i>Kinosternon baurii</i> STRIPED MUD TURTLE	G5	S3			River swamps; sloughs; ponds; marshes
<i>Lampsilis subangulata</i> SHINYRAYED POCKETBOOK	G2	S2	LE	E	Sandy/rocky medium-sized rivers & creeks
<i>Lasurus intermedius</i> NORTHERN YELLOW BAT	G4G5	S2S3			Wooded areas near open water or fields
<i>Lepisosteus oculatus</i> SPOTTED GAR	G5	S1			Weedy areas of clear backwaters and oxbow lakes
<i>Macrochelys temminckii</i> ALLIGATOR SNAPPING TURTLE	G3G4	S3		T	Rivers; lakes, large ponds near streams; swamps
<i>Medionidus penicillatus</i> GULF MOCCASINSHELL	G2	S2	LE	E	Sandy/rocky medium-sized rivers & creeks
<i>Micrurus fulvius fulvius</i> EASTERN CORAL SNAKE	G5T5	S3			Hardwood forests, pine flatwoods; dry hammocks, marshes
<i>Mycteria americana</i> WOOD STORK	G4	S2	(PS,LE)	E	Cypress/gum ponds, marshes, river swamps, bays
<i>Necturus sp. cf. beyeri</i> GULF COAST WATERDOG	G4	S3			Habitat data is not available
<i>Nerodia floridana</i> FLORIDA GREEN WATER SNAKE	G5	S2			Swamps; marshes, limesink ponds; bays
<i>Notropis harperi</i> REDEYE CHUB	G4	S2		R	Springs and spring influenced creeks over sand or rocky substrates
<i>Nyctanassa violacea</i> YELLOW-CROWNED NIGHT-HERON	G5	S3S4			River swamps, marshes, cypress/gum ponds
<i>Nycticorax nycticorax</i> BLACK-CROWNED NIGHT-HERON	G5	S3S4			River swamps, marshes, cypress/gum ponds
<i>Pandion haliaetus</i> OSPREY	G5	S3			Lakes; rivers; seacoasts
<i>Picoides borealis</i> RED-COCKADED WOODPECKER	G3	S2	LE	E	Open pine woods; pine savannas
<i>Pleurobema pyriforme</i> OVAL PIGTOE	G2	S2	LE	E	Sandy, medium-sized rivers & creeks
<i>Pseudobranchius striatus</i> DWARF SIREN	G5	S3			Swamps, marshes; limesink ponds; bays
<i>Pseudotriton montanus</i> MUD SALAMANDER	G5	S4			Swamps, muddy seeps; springs
<i>Pteronotropis hypselopterus</i> SAILFIN SHINER	G5	S3			Flowing areas of small clear streams over sand substrate; often associated with woody debris or vege

Special Concern Animals Potentially Occurring in Dougherty County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Pteronotropis welaka BLUENOSE SHINER	G3G4	S1		R	Quiet backwaters and vegetated pools of streams and rivers
Seminatrix pygaea BLACK SWAMP SNAKE	G5	S3			Swamps; ponds; marshes; lakes

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Attachment C Special-Status Species Correspondence*

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Special Concern Plants Potentially Occurring in Decatur County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Agalinis aphylla SCALE-LEAF PURPLE FOXGLOVE	G3G4	S3?			Longleaf pine-wiregrass savannas; pine flatwoods
Agalinis divaricata PINELAND PURPLE FOXGLOVE	G3?	S1?			Dry, grassy, pine-scrub oak ridges; extreme SW Georgia
Agalinis filicaulis SPINDLY PURPLE FOXGLOVE	G3G4	S2?			Seasonally wet, longleaf pine- wiregrass savannas; grassy pine barrens
Agalinis georgiana GEORGIA PURPLE FOXGLOVE; SPOTLESS PURPLE FOXGLOVE	G?	SU			Dry, grassy, pine-scrub oak ridges
Agrimonia incisa CUTLEAF AGRIMONY; CUTLEAF HARVEST LICE	G3	S3			Mixed oak-hickory forests, pine savannas, mesic hardwood forests
Andropogon mohrii BOG BLUESTEM	G4?	S2?			Longleaf pine-wiregrass savannas; pine-cypress savannas
Apteria aphylla NODDING NIXIE	G4	S3			Mesic hardwoods or magnolia-beech bluff forests
Aristida simpliciflora CHAPMAN THREE-AWN GRASS	G2	SH			Longleaf pine-wiregrass savannas
Arnoglossum sulcatum GROOVED-STEM INDIAN- PLANTAIN	G2G3	S1			Bottomland forests
Asclepias pedicellata SAVANNA MILKWEED	G4	S2?			Longleaf pine flatwoods; sandy pinelands with longleaf pine-saw palmetto-myrtle oak (Sapelo Island)
Asclepias rubra RED MILKWEED	G4G5	SH			Bogs, wet savannas
Asplenium heteroresiliens WAGNER SPLEENWORT	G2Q	S1		T	Limestone and marl outcrops; tabby ruins
Aster eryngiifolius SNAKEROOT-LEAF ASTER	G3G4	S1			Moist pinelands
Aster praealtus WILLOW-LEAF ASTER	G5	S1?			Lowland forests over limestone
Aster sericeus var. microphyllus SILKY ASTER	G5T4	S1			Limestone glades
Balduina atropurpurea PURPLE HONEYCOMB HEAD	G2G3	S2		R	Wet savannas, pitcherplant bogs
Baptisia lecontei LECONTE WILD INDIGO	G4?	S1			Pineland scrub
Baptisia megacarpa BIGPOD WILD INDIGO	G2	S1			Floodplain forests
Brickellia cordifolia FLYR'S NEMESIS	G2G3	S1			Mesic hardwood forests
Callirhoe triangulata CLUSTERED POPPY-MALLOW, WINECUP	G3	S2			Sandy scrub
Calopogon multiflorus MANY-FLOWERED GRASS-PINK	G2G3	SH			Wet savannas; pitcherplant bogs

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Special Concern Plants Potentially Occurring in Decatur County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Calystegia catesbiana</i> ssp. <i>catesbiana</i> CATESBY BINDWEED	G3T2?	S1?			Longleaf pine- wiregrass savannas
<i>Carex baltzellii</i> BALTZELL SEDGE	G3	S1		E	Beech-magnolia slope forests
<i>Carex dasycarpa</i> VELVET SEDGE	G4?	S3		R	Evergreen hammocks; mesic hardwood forests
<i>Carex decomposita</i> CYPRESS-KNEE SEDGE	G3	S2?			Swamps and lake margins on floating logs
<i>Carphephorus pseudolialtris</i> LAVENDER LADY	G4G5	SH			Pine flatwoods
<i>Ceanothus microphyllus</i> SANDHILL CEANOOTHUS	G4G5	S3			Longleaf pine-wiregrass savannas
<i>Chamaecrista deeringiana</i> FLORIDA SENNA	G1G2	S1?			Sandhill scrub, longleaf pine- wiregrass savannas
<i>Coreopsis integrifolia</i> TICKSEED	G1G2	S1S2			Floodplain forests, streambanks
<i>Croonia pauciflora</i> CROOMIA	G3	S1		T	Mesic hardwood forests, usually with <i>Fagus</i> and <i>Tilia</i>
<i>Croton elliotii</i> ELLIOTT CROTON	G2G3	S2S3			Pond margins and wet savannas
<i>Dalea carnea</i> var. <i>gracilis</i> SPRAWLING WHITE-TASSELS	G5T3T4	SH			Wet pine savannas, Southwest Georgia
<i>Drosera filiformis</i> THREAD-LEAF SUNDEW, DEW- THREADS	G5	S1?			Pitcherplant bogs, wet savannas
<i>Eleocharis atropurpurea</i> SPIKERUSH	G4G5	S1S3			Limesink pond margins
<i>Eleocharis melanocarpa</i> BLACKFRUIT SPIKERUSH	G4	S3			Limesink pond margins
<i>Eleocharis montana</i> var. <i>nodulosa</i> SPIKERUSH	G5T?	SH			Limesink ponds and sloughs
<i>Elyonurus tripsacoides</i> PAN-AMERICAN BALSAMSCALE	G5?	SH			Pine savannas
<i>Epidendrum conopseaum</i> GREEN-FLY ORCHID	G4	S3		U	Epiphytic on limbs of evergreen hardwoods; also in crevices of Altamaha Grit outcrops
<i>Eryngium aromaticum</i> FRAGRANT SNAKEROOT	G5	S3?			Dry pinelands; longleaf pine-wiregrass savannas
<i>Fimbristylis decipiens</i> SOUTHERN FIMBRY	G4	S3?			Wet pine savannas; sandy seeps on Altamaha grit outcrops
<i>Fimbristylis perpusilla</i> HARPER FIMBRY	G2	S1		E	Exposed muddy margins of pineland ponds
<i>Fimbristylis tomentosa</i> WOOLY FIMBRY	G?	SE?			Bogs, Granite outcrops
<i>Fothergilla gardenii</i> DWARF WITCH-ALDER	G3G4	S2		T	Openings in low woods; swamps

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Special Concern Plants Potentially Occurring in Decatur County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Fuirena scirpoidea</i> SOUTHERN UMBRELLA-SEDGE	G5	S1?			Pineland depressions, wet savannas with <i>Toxicodendron vernix</i> ; often in maintained rights-of-way
<i>Habenaria quinqueseta</i> var. <i>quinqueseta</i> MICHAUX ORCHID	G4G5T?	S1			Moist shade, Altamaha Grit outcrops; open pine woods
<i>Helianthus agrestis</i> SOUTHEASTERN SUNFLOWER	G4?	SH			Mucky, wet soils in open flatwoods
<i>Helianthus heterophyllus</i> WETLAND SUNFLOWER	G4	S1			Bogs; wet pine savannas
<i>Ilex amelanchier</i> SERVICEBERRY HOLLY	G4	S2			Wet, sandy thickets; cypress-gum swamps
<i>Illicium floridanum</i> FLORIDA ANISE-TREE	G5	S1		E	Steepheads, floodplain forests
<i>Ipomoea macrorhiza</i> LARGE-STEM MORNING-GLORY	G3G5	S1?			Exposed sandy soils
<i>Krameria lanceolata</i> SANDBUR	G5	S3?			Longleaf pine-wiregrass sandridges
<i>Lachnocaulon beyrichianum</i> SOUTHERN BOG-BUTTON	G2G3	S1			Flatwoods
<i>Lechea deckertii</i> DECKERT PINWEED	G4G5	S1?			Scrub
<i>Lechea torreyi</i> TORREY PINWEED	G4G5	SU			Flatwoods; pond margins; pocosins
<i>Leitneria floridana</i> CORKWOOD	G3	S1			Swamps, sawgrass-cabbage palmetto marshes
<i>Liatris chapmanii</i> CHAPMAN GAY-FEATHER	G5	SH			Scrub
<i>Lindera melissifolia</i> PONDBERRY	G2	S1	LE	E	Pond margins and wet savannas
<i>Linum sulcatum</i> var. <i>harperi</i> HARPER GROOVED FLAX	G5T2	SH			Dry pinelands
<i>Linum westii</i> WEST FLAX	G2	SP			Bogs, cypress pond margins
<i>Listera australis</i> SOUTHERN TWAYBLADE	G4	S2			Poorly drained circumneutral soils
<i>Litsea aestivalis</i> PONDSPICE	G3	S2		T	Cypress ponds; swamp margins
<i>Lobelia boykinii</i> BOYKIN LOBELIA	G2G3	S2S3			Cypress ponds and wet savannas
<i>Lophiola aurea</i> GOLDCREST	G4	S1?			Pine flatwoods, bogs
<i>Lythrum curtissii</i> CURTISS LOOSESTRIFE	G1	S1		T	Openings in calcareous swamps
<i>Macbridea caroliniana</i> CAROLINA BOGMINT	G2G3	S1?			Bogs; marshes; alluvial woods
<i>Macranthera flammea</i> FLAME FLOWER	G3	S1?			Wet, sandy thickets; pitcherplant bogs

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Magnolia pyramidata PYRAMID MAGNOLIA	G4	S3			Bluff and ravine forests
Malaxis spicata FLORIDA ADDERS-MOUTH	G4?	S1			Low hammocks; spring-fed river swamps
Matelea alabamensis ALABAMA MILKVINE	G2	S1		T	Open bluff forests, mesic margins of longleaf pine sandridges
Matelea flavidula YELLOW MILKVINE	G3?	S3?			Open bluff forests; floodplain forests
Melanthium woodii OZARK BUNCHFLOWER	G5	S2		R	Mesic hardwood forests over basic soils
Micromeria brownei var. pilosiuscula SAVORY	G5T?	S1?			Floodplain forests; muddy banks
Mimosa strigilosa POWDER-PUFF MIMOSA	G4G5	S3?			Floodplain forests; wet, grassy openings
Myrica nodosa ODORLESS BAYBERRY	G4	S2?			Bayheads, tili swamps
Myriophyllum laxum LAX WATER-MILFOIL	G3	S2		T	Bluehole spring runs; shallow, sandy, swift-flowing creeks; clear, cool ponds
Najas filifolia NARROWLEAF NAIAD	G1	S1			Lakes
Oldenandia boscii BLUETS	G5	S3?			Cypress pond margins; exposed pond bottoms in limesinks; sag pond margins; sometimes ditches
Pachysandra procumbens ALLEGHENY-SPURGE	G4G5	S1S2			Mesic hardwood forests over basic soils
Palafoxia integrifolia PALAFOXIA	G3G4	S2?			Sandy pine-oak scrub
Panax quinquefolius AMERICAN GINSENG	G3G4	S3			Mesic hardwood forests, cove hardwood forests
Panicum tenerum PANIC GRASS	G4	S1			Wet pine savannas near the coast
Peltandra sagittifolia ARROW ARUM	G3G4	S2?			Swamps; wet hammocks on pristine sphagnum mats
Pentodon pentandrus PENTODON	G5?	S1?			Wet meadows; pond edges
Phaseolus polystachios var. sinuatus TRAILING BEAN-VINE	G4T3?	S2?			Sandhills; dry pinelands and hammocks
Phlebodium aureum GOLDFOOT FERN	G5	S1			Exposed calcareous soil; also epiphytic on live oak and sabal palmetto (cabbage palm)
Physostegia leptophylla TIDAL MARSH OBEDIENT PLANT, NARROWLEAF DRAGONHEAD	G4?	S2S3		T	Freshwater tidal marshes; disjunct in wet savannas of extreme SW Georgia
Pieris phillyreifolia CLIMBING HEATH	G3	S3			Cypress ponds, epiphytic on cypress bark, abundant in Okefenokee Swamp
Pinguicula primuliflora CLEARWATER BUTTERWORT	G3G4	S1		T	In shallow, sandy, clearwater streams and seeps; Atlantic whitecedar swamps

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Plantago sparsiflora</i> PINELAND PLANTAIN	G3	S2			Open, wet pine savannas; shallow ditches
<i>Platanthera integra</i> YELLOW FRINGELESS ORCHID	G3G4	S2			Wet savannas, pitcherplant bogs
<i>Platanthera nivea</i> SNOWY ORCHID	G5	S3			Wet savannas, pitcherplant bogs
<i>Polygala baldunii</i> WHITE MILKWORT	G4	S1?			Wet pine savannas
<i>Polygala leptostachys</i> GEORGIA MILKWORT	G3G4	S1			Oak-pine scrub
<i>Ponthieva racemosa</i> SHADOW-WITCH ORCHID	G4G5	S2?			Calcareous swamps; marly outcrops
<i>Psilotum nudum</i> WHISK FERN	G5	S1			Swamp forests and hammocks, near Okefenokee Swamp; usually epiphytic on tree trunks, on barrier isla
<i>Pteroglossaspis cristata</i> WILD COCO	G2	S1			Grassy saw palmetto barrens; longleaf pine grasslands, sometimes with <i>Schwalbea americana</i>
<i>Ptilimnium nodosum</i> MOCK BISHOP-WEED	G2	S1	LE	E	Granite outcrops; limesink depressions
<i>Quercus austrina</i> BLUFF WHITE OAK	G5	S3?			Bluff forests; floodplain hammocks
<i>Quercus breviloba</i> SHALLOW-LOBED OAK	G5T5	SR			Upland scrub
<i>Quercus sinuata</i> BASTARD OAK, DURAND OAK	G5	S1S2			Bluff forests
<i>Rhexia aristosa</i> AWNED MEADOWBEAUTY	G3	S2			Pond margins and wet savannas
<i>Rhexia nuttallii</i> NUTTALL MEADOWBEAUTY	G4?	S1?			Pine flatwoods; bogs
<i>Rhexia parviflora</i> SMALL-FLOWERED WHITE MEADOWBEAUTY	G2	SH			Limesink pond margins, perhaps in openings under pond-cypress
<i>Rhododendron austrinum</i> FLORIDA AZALEA	G3	S3			Hardwood-spruce pine forests; low woods
<i>Rhynchospora breviflora</i> SHORT-BRISTLE BEAKSEDGE	G3G4	SU			Bogs; flatwoods
<i>Rhynchospora careyana</i> CAREY'S HORNED BEAKSEDGE	G4?Q	S3S4			Sag ponds; cypress ponds; pine flatwoods
<i>Rhynchospora culix</i> GEORGIA BEAKSEDGE	GH	S1			Pine savannas; flatwoods
<i>Rhynchospora decurrens</i> SWAMP-FOREST BEAKSEDGE	G3G4	S1?			Swamps
<i>Rhynchospora harperi</i> HARPER'S BEAKSEDGE	G4?	S1S2			Cypress pond margins and wet savannas; limesink depression ponds (dolines)
<i>Rhynchospora macra</i> SOUTHERN WHITE BEAKSEDGE	G3	S1?			Peaty, sandhill seepage slopes; streamhead pocosins

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Rhynchospora oligantha FEATHER-BRISTLE BEAKSEDGE	G4	S1?			Bogs; sea-level fens, wet savannas
Rhynchospora pleiantha COASTAL BEAKSEDGE	G2	SH			Margins of limesink depression ponds (dclines)
Rhynchospora punctata PINELAND BEAKSEDGE	G1?	S1?			Wet savannas, pitcherplant bogs
Rhynchospora scirpoides LONG-BEAK BALDRUSH	G4	S2?			Floating mats in ponds, pond margins
Rhynchospora solitaria AUTUMN BEAKRUSH	G1	S1			Wet, sandy, peaty depressions
Rhynchospora stenophylla CHAPMAN'S BEAKRUSH	G4	S2			Wet, sandy, peaty depressions; Chamaecyparis seeps
Rhynchospora thornei THORNE'S BEAKRUSH	G1G2	S2			Margins of limesink ponds, moist limestone barrens, wet prairies
Rhynchospora torreyana TORREY BEAKRUSH	G4	S1?			Bogs, wet savannas
Rudbeckia nitida var nitida YELLOW CONEFLOWER	G3?T2T3	S3			Wet savannas, openings in pineland flatwoods; seepage bogs, sometimes with pitcherplants
Sagaretia minutiflora TINY-LEAF BUCKTHORN	G4	S1		T	Calcareous bluff forests, maritime forests over shell mounds
Sagittaria isoetiformis ARROWHEAD	G4?	SU			Sandy ponds and bogs; seasonal ponds over Grady soils?
Salix floridana FLORIDA WILLOW	G2	S1		E	Spring runs, seepy, sphagnum wetlands with Eleocharis tortilis, Itea, Alnus, Orontium, Arnoglossum
Sarracenia flava YELLOW FLYTRAP	G5?	S3S4		U	Wet savannas, pitcherplant bogs
Sarracenia leucophylla WHITETOP PITCHERPLANT	G3	SH		E	Wet savannas, pitcherplant bogs
Sarracenia minor HOODED PITCHERPLANT	G4	S4		U	Wet savannas, pitcherplant bogs
Sarracenia psittacina PARROT PITCHERPLANT	G4	S2S3		T	Wet savannas, pitcherplant bogs
Schisandra glabra BAY STARVINE	G3	S2		T	Rich woods on stream terraces and lower slopes
Schizachyrium stoloniferum BLUESTEM	G3G4Q	S2S3			Longleaf pine-wiregrass savannas
Schwalbea americana CHAFFSEED	G2	S1	LE	E	Ponds margins and wet savannas; upland ridge forests
Scirpus erismanae BULRUSH	G?Q	S1?			Pond shores in peaty sands
Scirpus obtusirostratus CLUB-RUSH	G3G4	S1S2			Marshes, shallow ponds, peaty swamps, as Oketenokee Swamp and Atlantic whitecedar swamps
Scirpus hallii HALL BULRUSH	G2	SH			Pond shores in peaty sands

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Special Concern Plants Potentially Occurring in Decatur County, Georgia

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30025, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Scutellaria saxatilis ROCK SKULLCAP	G3	S1			Mesic hardwood ravine forests
Selaginella ludoviciana LOUISIANA SPIKEMOSS	G3	S1?			Swamp margins; wet meadows
Sideroxylon thornei SWAMP BUCKTHORN	G2	S2		E	Forested limesink depressions; calcareous swamps
Silene ovata MOUNTAIN CATCHFLY	G2G3	S1			Mesic deciduous forests over limestone; high elevation oak forests
Silene polypetala FRINGED CAMPION	G2	S2	LE	E	Mesic deciduous forests
Sium floridanum FLORIDA WATER-PARSNIP	G1Q	S1?			Calcareous swamps; floodplains
Smilax lasioneuron CARRION-FLOWER	G5	S2?			Pine-oak-hickory forests; bluff forests
Spiranthes brevilabris SHORT-LIP LADIES-TRESSES	G3G4	S1?			Open pinelands; meadows
Spiranthes longilabris GIANT SPIRAL LADIES-TRESSES	G3	S1			Wet pinelands and prairies
Sporobolus teretifolius WIRE-LEAF DROPSEED	G2?	S2?			Longleaf pine-wiregrass savannas, pitcherplant bogs
Stewartia malacodendron SILKY CAMELLIA	G4	S2		R	Steepheads, bayheads; edges of swamps
Stokesia laevis STOKES ASTER	G3G4	S1			Pitcherplant bogs
Tephrosia chrysophylla SPRAWLING GOATS RUE	G4G5	S1			Dry, sandy scrub
Tephrosia mohrii DWARF GOATS RUE	G3	S1?			Scrub; longleaf pine-wiregrass savannas
Thalictrum cooleyi COOLEY MEADOWRUE	G1	S1	LE	E	Pond margins and wet savannas
Thelypteris ovata OVATE MAIDEN FERN	G3G5	S2S3			Calcareous hammocks; limesinks; mesic hardwood forests
Torreya taxifolia FLORIDA TORREYA	G1	S1	LE	E	Rich ravines in extreme Southwest Georgia
Tragia cordata HEARTLEAF NETTLE VINE	G4	S2?			Dry, usually rocky, calcareous woods; also relict prairie openings on the Fort Valley Plateau
Treopocarpus aethusae TREPOCARPUS	G4G5	S2?			Floodplain forests
Tridens carolinianus CAROLINA REDTOP	G3	S1?			Dry, open mixed oak-pine forests of the Fall Line Sandhills
Trillium decipiens MIMIC TRILLIUM	G3	S3?			Mesic hardwood forests; limesink forests
Trillium lancifolium LANCELEAF TRILLIUM	G3	S2S3			Floodplain forests; also lower rocky slopes over basic soils
Trillium reliquum RELICT TRILLIUM	G2	S2	LE	E	Mesic hardwood forests; limesink forests; usually with Fagus and Tilia

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Trillium underwoodii DWARF MIMIC TRILLIUM	G4?	S3?			Mesic hardwood forests
Utricularia olivacea LEAFLESS DWARF BLADDERWORT	G4	S1?			Shallow ponds, especially limesink ponds or dolines of Southwest Georgia
Uvularia floridana FLORIDA BELLWORT	G3	S3?			Mixed oak-hickory forests, mesic hardwoods or magnolia-beech bluff forests
Vitis palmata CATBIRD GRAPE	G4	SH			Floodplain forests; river banks
Vitis rotundifolia var. munsoniana MUNSON GRAPE	G5T4?	S1			Floodplain forests, blackwater streamsides
Xyris drummondii DRUMMOND YELLOW-EYED GRASS	G3	S1			Pine flatwoods
Xyris scabrifolia HARPER YELLOW-EYED GRASS	G3	S1			Sedge bogs; pitcherplant bogs; pine flatwoods
Xyris serotina YELLOW-EYED GRASS	G3G4	S3S4			Sandy pinelands; acid swamps
Xyris stricta YELLOW-EYED GRASS	G3G4	S4?			Acidic swamps
Zephyranthes simpsonii SIMPSON RAIN LILY	G2G3	S1			Pine flatwoods; edges of sloughs on southcentral coastal plain
Zigadenus leimanthoides DEATH-CAMUS	G4Q	S1			Sandhill bogs; pine flatwoods

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Special Concern Plants Potentially Occurring in Southwest Georgia RDC Counties*

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Aesculus parviflora</i> BOTTLEBRUSH BUCKEYE	G3?	S2S3			Mesic bluff and ravine forests
<i>Agalinis aphylla</i> SCALE-LEAF PURPLE FOXGLOVE	G3G4	S2S3?			Longleaf pine-wiregrass savannas; pine flatwoods
<i>Agalinis divaricata</i> PINELAND PURPLE FOXGLOVE	G3	S1?			Dry, grassy, pine-scrub oak ridges; extreme SW Georgia
<i>Agalinis filicaulis</i> SPINDLY PURPLE FOXGLOVE	G3G4	S2?			Seasonally wet, longleaf pine- wiregrass savannas; grassy pine barrens
<i>Agrimonia incisa</i> CUTLEAF AGRIMONY; CUTLEAF HARVEST LICE	G3	S3			Mixed oak-hickory forests, pine savannas, mesic hardwood forests
<i>Amphicarpum muehlenbergianum</i> BLUE MAIDENCANE, FLORIDA GOOBER GRASS	G4	S3?			Pine flatwoods
<i>Andropogon mohrii</i> BOG BLUESTEM	G4?	S2?			Longleaf pine-wiregrass savannas; pine-cypress savannas
<i>Anemone caroliniana</i> CAROLINA WINDFLOWER	G5	S1?			Upland seepage swamp openings over Iredell soils; wet meadows
<i>Apteria aphylla</i> NODDING NIXIE	G4	S3			Mesic hardwoods or magnolia-beech bluff forests
<i>Arabis georgiana</i> GEORGIA ROCKCRESS	G2	S1		T	Rocky or sandy river bluffs and banks, in circumneutral soil
<i>Aristida condensata</i> SANDHILL THREE-AWN GRASS	G4?	S3?			Sandridges
<i>Aristida simpliciflora</i> CHAPMAN THREE-AWN GRASS	G2	SH			Longleaf pine-wiregrass savannas
<i>Arnoglossum diversifolium</i> VARIABLE-LEAF INDIAN- PLANTAIN	G2	S2		T	Calcareous swamps
<i>Arnoglossum sulcatum</i> GROOVED-STEM INDIAN- PLANTAIN	G3G4	S1			Bottomland forests
<i>Asclepias pedicellata</i> SAVANNA MILKWEED	G3?	S2			Bogs, wet savannas
<i>Asplenium heteroresiliens</i> WAGNER SPLEENWORT	G2Q	S1		T	Limestone outcrops; marl
<i>Aster eryngiifolius</i> SNAKEROT-LEAF ASTER	G3?	S1			Moist pinelands
<i>Aster georgianus</i> GEORGIA ASTER	G2G3	S2			Upland oak-hickory-pine forests
<i>Aster sericeus</i> var. <i>microphyllus</i> SILKY ASTER	G5T4	S1			Limestone glades

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Appendix D - Applicant's Environmental Report
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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Balduina atropurpurea</i> PURPLE HONEYCOMB HEAD	G2G3	S2		R	Wet savannas, pitcherplant bogs
<i>Baptisia lecontei</i> LECONTE WILD INDIGO	G4?	S1			Pineland scrub
<i>Baptisia megacarpa</i> BIGPOD WILD INDIGO	G3	S1			Floodplain forests
<i>Brickellia cordifolia</i> FLYR'S NEMESIS	G2G3	S1			Mesic hardwood forests
<i>Callirhoe papaver</i> WOODS POPPY-MALLOW	G5	S2S3			Openings in oak-pine forests
<i>Callirhoe triangulata</i> CLUSTERED POPPY-MALLOW, WINECUP	G3G5	S2			Sandy scrub
<i>Calopogon multiflorus</i> MANY-FLOWERED GRASS-PINK	G4	SH			Wet savannas, pitcherplant bogs
<i>Carex baltzellii</i> BALTZELL SEDGE	G2	S1		E	Beech-magnolia slope forests
<i>Carex dasycarpa</i> VELVET SEDGE	G4?	S3		R	Evergreen hammocks; mesic hardwood forests
<i>Carex decomposita</i> CYPRESS-KNEE SEDGE	G4	S2?			Swamps and lake margins on floating logs
<i>Carex fissa</i> var. <i>aristata</i> SEDGE	G2QT?	S1			Wet savannas
<i>Carphephorus pseudoliatris</i> LAVENDER LADY	G4G5	SH			Pine flatwoods
<i>Chamaecrista doeringiana</i> FLORIDA SENNA	G2G3	S1?			Sandhill scrub, longleaf pine- wiregrass savannas
<i>Collinsonia tuberosa</i> STONEROOT	G3G4	S3			Mesic woods over basic rock
<i>Coreopsis integrifolia</i> TICKSEED	G1G2	S1S2			Floodplain forests, streambanks
<i>Corydalis flavula</i> YELLOW CORYDALIS	G5	S3?			Rocky floodplain forests and hardwood ravines
<i>Crataegus brachyacantha</i> BLUEBERRY HAWTHORN	G4	SH			Open pinelands
<i>Croonia pauciflora</i> CROOMIA	G3	S1		T	Mesic hardwood forests
<i>Croton elliotii</i> ELLIOTT CROTON	G2G3	S2S3			Pond margins and wet savannas
<i>Delphinium carolinianum</i> CAROLINA LARKSPUR	G5	S3			Granite outcrops, rocky, calcareous oak forests; Altamaha Grit outcrops
<i>Dodecatheon meadia</i> SHOOTING-STAR	G5	S3			Mesic hardwood forests over basic soils

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Drosera filiformis</i> var. <i>tracyi</i> TRACY THREADLEAF SUNDEW	G5T3T4	S1?			Pitcherplant bogs
<i>Eleocharis atropurpurea</i> SPIKERUSH	G4G5	S1?			Limesink pond margins
<i>Eleocharis melanocarpa</i> BLACKFRUIT SPIKERUSH	G4	SU			Limesink pond margins
<i>Eleocharis montana</i> var. <i>nodulosa</i> SPIKERUSH	G5T?	SH			Limesink ponds and sloughs
<i>Eleocharis robbinsii</i> SPIKERUSH	G4G5	SU			Pine savanna ponds
<i>Elyonurus tripsacoides</i> PAN-AMERICAN BALSAMSCALE	G5?	SH			Pine savannas
<i>Epidendrum conopseum</i> GREEN-FLY ORCHID	G3G4	S3		U	Epiphytic in bottomland hardwoods and magnolia-beech bluff forests, also Altamaha Grit outcrops
<i>Evolvulus sericeus</i> var. <i>sericeus</i> CREEPING MORNING-GLORY	G5T?	S1		E	Altamaha Grit outcrops; open calcareous uplands
<i>Fimbristylis decipiens</i> SOUTHERN FIMBRY	G4	S1?			Wet pine savannas; sandy swales
<i>Fimbristylis perpusilla</i> HARPER FIMBRY	G2G3	S1		E	Exposed muddy margins of pineland ponds
<i>Glyceria septentrionalis</i> FLOATING MANNA-GRASS	G5	SH			Cypress ponds
<i>Habenaria quinqueseta</i> var. <i>quinqueseta</i> MICHAUX ORCHID	G4G5T?	S1			Moist shade, Altamaha Grit outcrops; open pine woods
<i>Helianthus agrestis</i> SOUTHEASTERN SUNFLOWER	G2G3	SH			Mucky, wet soils in open flatwoods
<i>Helianthus heterophyllus</i> WETLAND SUNFLOWER	G3G4	S1			Bogs; wet pine savannas
<i>Hexastylis shuttleworthii</i> var. <i>harperi</i> HARPER HEARTLEAF	G4T2	S2?		U	Low terraces in floodplain forests; edges of bogs
<i>Hygrophila lacustris</i> HYGROPHILA	G5?	S1?			Shallow water of marshy shores
<i>Hypericum adpressum</i> BOG ST. JOHNSWORT	G2G3	S2?			Swamps
<i>Ilex amelanchier</i> SERVICEBERRY HOLLY	G4	S2			Wet, sandy thickets; cypress-gum swamps
<i>Illicium floridanum</i> FLORIDA ANISE-TREE	G5	S1		E	Steepheads, floodplain forests
<i>Isoetes georgiana</i> GEORGIA QUILLWORT	G1Q	S2S3?			In floodplain woods on seasonally wet or inundated margins of braided streams

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Isoetes hyemalis</i> QUILLWORT	G2G3	S1			In blackwater streams, also emergent on sandy creek banks in deciduous swamps
<i>Krameria lanceolata</i> SANDBUR	G5	S3?			Longleaf pine-wiregrass sandridges
<i>Lachnocaulon beyrichianum</i> SOUTHERN BOG-BUTTON	G2G3	S1			Flatwoods
<i>Leitneria floridana</i> CORKWOOD	G2G3	S1			Swamps, sawgrass-cabbage palmetto marshes
<i>Liatris chapmanii</i> CHAPMAN GAY-FEATHER	G5	SH			Scrub
<i>Lindera melissifolia</i> PONDBERRY	G2	S1	LE	E	Pond margins and wet savannas
<i>Linum sulcatum</i> var. <i>harperi</i> HARPER GROOVED FLAX	G5TU	SH			Dry pinelands
<i>Listera australis</i> SOUTHERN TWAYBLADE	G4	S2			Poorly drained circumneutral soils
<i>Litsea aestivalis</i> PONDSPICE	G3	S2		T	Cypress ponds; swamp margins
<i>Lobelia boykinii</i> BOYKIN LOBELIA	G2	S2S3			Cypress ponds and wet savannas
<i>Lophiola aurea</i> GOLDCREST	G4	S1?			Pine flatwoods, bogs
<i>Lythrum curtisii</i> CURTISS LOOSESTRIFE	G1	S1		T	Openings in calcareous swamps
<i>Macranthera flammea</i> FLAME FLOWER	G3	S2?			Wet, sandy thickets; pitcherplant bogs
<i>Magnolia pyramidata</i> PYRAMID MAGNOLIA	G4	S3			Bluff and ravine forests
<i>Marshallia ramosa</i> PINELAND BARBARA BUTTONS	G2	S2		R	Altamaha Grit outcrops, open forests over ultramafic rock
<i>Matelea alabamensis</i> ALABAMA MILKVINE	G1	S1		T	Open bluff forests
<i>Matelea flavidula</i> YELLOW MILKVINE	G3	SU			Open bluff forests; floodplain forests
<i>Micromeria brownei</i> var. <i>pilosiuscula</i> SAVORY	G5T?	S1?			Floodplain forests, muddy banks
<i>Mimosa strigilosa</i> POWDER-PUFF MIMOSA	G4G5	S3?			Floodplain forests, wet, grassy openings
<i>Muhlenbergia torreyana</i> TORREY DROPSEED	G3	SH			Seasonally inundated pond shores, swales and savannas
<i>Myrica inodora</i> ODORLESS BAYBERRY	G4	S2?			Bayheads, tlu swamps

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Myriophyllum laxum LAX WATER-MILFOIL	G3	S2		T	Bluehole spring runs; shallow, sandy, swift-flowing creeks; clear, cool ponds
Najas filifolia NARROWLEAF NAIAD	G1	S1			Lakes
Oldenlandia boscii BLUETS	G5	S1?			Cypress pond margins; exposed pond bottoms
Oxypolis canbyi CANBY DROPWORT	G2	S2	LE	E	Cypress ponds and sloughs; wet savannas
Oxypolis ternata TERNATE COWBANE	G3	S2			Wet pine savannas and bogs
Panax quinquefolius AMERICAN GINSENG	G4	S3			Mesic hardwood forests; cove hardwood forests
Panicum hirstii HIRST PANIC GRASS	G1	SH		E	Cypress ponds, wet savannas and sloughs
Panicum tenerum PANIC GRASS	G4	S1			Wet pine savannas near the coast
Parietaria pensylvanica PENNSYLVANIA PELLITORY, HAMMERWORT	G5	S1?			Dry, open, calcareous soil
Paronychia rugelii var. interior RUGEL NAILWORT	G2?T2?Q	S2?			Longleaf pine-turkey oak scrub, mostly Alapaha River drainage
Penstemon dissectus GRIT BEARDTONGUE	G2?	S2		R	Altamaha Grit outcrops and adjacent pine savannas; rarely sandridges
Pentodon pentandrus PENTODON	G5?	S1?			Wet meadows; pond edges
Phaseolus polystachios var. sinuatus TRAILING BEAN-VINE	G4T3	S2?			Sandhills; dry pinelands and hammocks
Physostegia leptophylla NARROWLEAF OBEДИENT PLANT	G4G5	S2?		T	Wet savannas; bogs; freshwater tidal marshes
Pieris phillyreifolia CLIMBING HEATH	G3?	S3			Cypress ponds; epiphytic on cypress bark
Pinguicula primuliflora CLEARWATER BUTTERWORT	G4	S1		T	Sandy, clearwater streams and seeps; Atlantic white cedar swamps
Plantago sparsiflora PINELAND PLANTAIN	G2	S2			Open, wet pine savannas; shallow ditches
Platanthera integra YELLOW FRINGELESS ORCHID	G4	S2			Wet savannas, pitcherplant bogs
Platanthera nivea SNOWY ORCHID	G5	S3			Wet savannas, pitcherplant bogs
Polygala baldwinii WHITE MILKWORT	G2G4	S1?			Wet pine savannas
Polygala boykinii BOYKIN MILKWORT	G3G4	S3			Openings in calcareous soil

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Polygala leptostachys</i> GEORGIA MILKWORT	G2G4	S1			Oak-pine scrub
<i>Ponthieva racemosa</i> SHADOW-WITCH ORCHID	G4G5	S2?			Calcareous swamps; marly outcrops
<i>Pteroglossaspis acristata</i> WILD COCO	G2G3	S1			Grassy saw palmetto barrens; longleaf pine grasslands
<i>Ptilimnium nodosum</i> MOCK BISHOP-WEED	G2	S1	LE	E	Granite outcrops, limesink depressions
<i>Pycnanthemum floridanum</i> FLORIDA MOUNTAIN-MINT	G3	S1?			Pine savannas, flatwoods
<i>Quercus arkansana</i> ARKANSAS OAK	G3	S2S3			Sandy upper ravine slopes
<i>Quercus austrina</i> BLUFF WHITE OAK	G5	S3?			Bluff forests; floodplain hammocks
<i>Quercus breviloba</i> SHALLOW-LOBED OAK	G5T5	SR			Upland scrub
<i>Quercus sinuata</i> BASTARD OAK	G5	S1S2?			Bluff forests
<i>Rhexia aristosa</i> AWNED MEADOWBEAUTY	G3	S2			Pond margins and wet savannas
<i>Rhexia parviflora</i> MEADOWBEAUTY	G2	SR			Limesink pond margins
<i>Rhododendron austrinum</i> FLORIDA AZALEA	G3G4	S3			Hardwood-spruce pine forests, low woods
<i>Rhododendron prunifolium</i> PLUMLEAF AZALEA	G3	S3		T	Mesic hardwood forests in ravines
<i>Rhynchospora brevifolia</i> SHORT-BRISTLE BEAKRUSH	G3G4	SU			Bogs, flatwoods
<i>Rhynchospora culix</i> GEORGIA BEAKRUSH	G1	SH			Pine savannas, flatwoods
<i>Rhynchospora decurrens</i> SWAMP FOREST BEAKRUSH	G3G4	S1?			Swamps
<i>Rhynchospora harperi</i> HARPER BEAKRUSH	G3	S1?			Cypress pond margins and wet savannas
<i>Rhynchospora macro</i> SOUTHERN WHITE BEAKRUSH	G3G4	S1?			Seepage slopes, wet savannas
<i>Rhynchospora oligantha</i> FEATHER-BRISTLE BEAKRUSH	G4	S1?			Bogs
<i>Rhynchospora pleiantha</i> COASTAL BEAKRUSH	G3	SH			Pond margins; wet savannas
<i>Rhynchospora punctata</i> PINELAND BEAKRUSH	G1?	S1?			Wet savannas, pitcherplant bogs

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Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Rhynchospora scirpoides LONG-BEAK BALDRUSH	G4	S2?			Floating mats in ponds and pond margins
Rhynchospora solitaria AUTUMN BEAKRUSH	G1	S1			Wet, sandy, peaty depressions
Rhynchospora stenophylla LITTLELEAF BEAKRUSH	G4	S2			Wet, sandy, peaty depression
Rhynchospora thornei THORNE BEAKRUSH	G1G2	S2			Margins of limesink ponds; moist limestone barrens
Rhynchospora torreyana TORREY BEAKRUSH	G4	S1?			Bogs; wet savannas
Rudbeckia nitida var. nitida YELLOW CONEFLOWER	G3?T1T3	S3?			Wet savannas, pitcherplant bogs; cypress ponds
Sageretia minutiflora TINY-LEAF BUCKTHORN	G4	S1		T	Calcareous bluff forests; shell mound forests
Sagittaria isoetiformis ARROWHEAD	G3G4	SU			Sandy ponds and bogs
Salix floridana FLORIDA WILLOW	G2	SH		E	Spring runs; seepy thickets
Sarracenia flava YELLOW FLYTRAP	G4G5	S3S4		U	Wet savannas, pitcherplant bogs
Sarracenia leucophylla WHITETOP PITCHERPLANT	G3	SH		E	Wet savannas, pitcherplant bogs
Sarracenia minor HOODED PITCHERPLANT	G4	S4		U	Wet savannas, pitcherplant bogs
Sarracenia psittacina PARROT PITCHERPLANT	G4	S2S3		T	Wet savannas, pitcherplant bogs
Sarracenia purpurea PURPLE PITCHERPLANT	G5	S1		E	Swamps, wet rhododendron thickets
Schisandra glabra BAY STARVINE	G4	S2		T	Stream terraces
Schizachyrium sanguineum var. hirtiflorum SANDHILL BLUESTEM	G5?T?	S1S3?			Dry, open sands with turkey oak; inland sand dunes (Albany Fossil Dunes)
Schizachyrium stoloniferum BLUESTEM	G3G4Q	S2?			Longleaf pine-wiregrass savannas
Schwalbea americana CHAFFSEED	G2	S1	LE	E	Ponds margins and wet savannas; upland ridge forests
Scirpus erismanae BULRUSH	G?	S1?			Pond shores in peaty sands
Scirpus etuberculatus CLUB-RUSH	G3G4	SH			Marshes; shallow ponds
Scirpus hallii HALL BULRUSH	G2	SH			Pond shores in peaty sands

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
<i>Scutellaria saxatilis</i> ROCK SKULLCAP	G4?	S1			Mesic hardwood ravine forests
<i>Seleginella ludoviciana</i> LOUISIANA SPIKEMOSS	G3G4	S1?			Swamp margins; wet meadows
<i>Sideroxylon thornei</i> SWAMP BUCKTHORN	G2	S2		E	Forested limesink depressions; calcareous swamps
<i>Silene ovata</i> MOUNTAIN CATCHFLY	G3	S1			Mesic deciduous forests; high elevation oak forests
<i>Silene polypetala</i> FRINGED CAMPION	G2	S2	LE	E	Mesic deciduous forests
<i>Silene regia</i> ROYAL CATCHFLY	G3	S1		R	Limestone barrens, remnant prairies
<i>Smilax lasioneuron</i> CARRION-FLOWER	G5	S2?			Pine-oak-hickory forests; bluff forests
<i>Solidago tarda</i> GOLDENROD	G?	SU			Sandy upland forests
<i>Spiranthes brevibrabis</i> var. <i>floridana</i> LADIES-TRESSES	G3G4?	S1			Wet savannas, mowed grassy openings in Okefenokee area
<i>Spiranthes longibrabis</i> GIANT SPIRAL LADIES-TRESSES	G3	S1			Wet pinelands and prairies
<i>Spiranthes ovalis</i> OVAL LADIES-TRESSES	G5	S3?			Moist hammocks, swamp margins, wet thickets over basic soils
<i>Sporobolus teretifolius</i> WIRE-LEAF DROPSEED	G1G2	S2?			Longleaf pine-wiregrass savannas, pitcherplant bogs
<i>Stewartia malacodendron</i> SILKY CAMELLIA	G4	S2		R	Steepheads, bayheads, edges of swamps
<i>Stokesia laevis</i> STOKES ASTER	G5	S1			Pitcherplant bogs
<i>Stylisma pickeringii</i> var. <i>pickeringii</i> PICKERING MORNING-GLORY	G4?T2T3	S2		T	Open, dry, oak scrub of sandhills
<i>Tephrosia chrysophylla</i> SPRAWLING GOATS RUE	G4G5	S1			Dry, sandy scrub
<i>Tephrosia mohrii</i> DWARF GOATS RUE	G2?Q	S1?			Scrub; longleaf pine-wiregrass savannas
<i>Thalictrum cooleyi</i> COOLEY MEADOWRUE	G1	S1Q	LE	E	Pond margins and wet savannas
<i>Thelypteris ovata</i> OVATE MAIDEN FERN	G3G5	S2S3?			Calcareous hammocks, limesinks, mesic hardwood forests
<i>Torreya taxifolia</i> FLORIDA TORREYA	G1	S1	LE	E	Rich ravines in extreme Southwest Georgia
<i>Trepoecarpus aethusae</i> TREPOCARPUS	G4G5	S2?			Floodplain forests

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Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Trillium decipiens MIMIC TRILLIUM	G3	S3?			Mesic hardwood forests; limesink forests
Trillium lancifolium LANCELEAF TRILLIUM (COASTAL PLAIN SITES)	G3	S3			Floodplain forests, rocky slopes over basic soils
Trillium reliquum RELICT TRILLIUM	G2	S2	LE	E	Mesic hardwood forests; limesink forests
Trillium underwoodii DWARF MIMIC TRILLIUM	G4?	S3?			Mesic hardwood forests
Utricularia olivacea DWARF BLADDERWORT	G4	S1?			Shallow ponds
Uvularia floridana FLORIDA BELLWORT	G3?	S3?			Mixed oak-hickory forests; mesic hardwoods or magnolia-beech bluff forests
Veratrum woodii OZARK BUNCHFLOWER	G5	S2		R	Mesic hardwood forests over basic soils
Vigna luteola WILD YELLOW COWPEA	G5	S2?			Open swamps; maritime beaches and tidal flats
Viola conspersa AMERICAN DOG VIOLET	G5	S3			Sandy streamsid es
Vitis palmata CATBIRD GRAPE	G4	SH			Floodplain forests; river banks
Vitis rotundifolia var. munsoniana MUNSON GRAPE	G5T4?	S1			Floodplain forests; blackwater streamsid es
Warea sessilifolia SANDHILL-CRESS	G2G4	S1			Sandhills scrub
Xyris drummondii DRUMMOND YELLOW-EYED GRASS	G3	S1			Pine flatwoods
Xyris scabrifolia HARPER YELLOW-EYED GRASS	G3	S1			Sedge bogs; pitcherplant bogs; pine flatwoods
Zephyranthes simpsonii SIMPSON RAIN LILY	G2G3	S1			Pine flatwoods; edges of sloughs on southcentral coastal plain
Zigadenus leimanthoides DEATH-CAMUS	G4Q	S1			Sandhill bogs; pine flatwoods

* Southwest Georgia RDC Counties are: Baker, Calhoun, Colquitt, Decatur, Dougherty, Early, Grady, Lee, Miller, Mitchell, Seminole, Terrell, Thomas, and Worth

*Appendix D - Applicant's Environmental Report
Attachment C Special-Status Species Correspondence*

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Special Concern Animals Potentially Occurring in Southwest RDC Counties

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Acantharchus pomotis MUD SUNFISH	G5	S3			Blackwater streams; bays; cypress/gum ponds
Aimophila aestivalis BACHMAN'S SPARROW	G3	S3		R	Open pine or oak woods; old fields; brushy areas
Alosa alabamae ALABAMA SHAD	G4	S1		U	Brownwater & blackwater streams
Alosa chrysochloris SKIPJACK HERRING	G5	S27			Brownwater rivers
Ambystoma cingulatum FLATWOODS SALAMANDER	G2G3	S3		R	Pine flatwoods; moist savannas; cypress/gum ponds
Ameiurus serracanthus SPOTTED BULLHEAD	G3	S2		R	Blackwater & brownwater streams; reservoirs
Ammodramus henslowii HENSLOW'S SPARROW	G3G4	S3			Fields; meadows
Amphiuma pholeter ONE-TOED AMPHIUMA	G3	S1		R	Organic mucky/muddy, shallow creeks; temporary pools and streams
Botaurus lentiginosus AMERICAN BITTERN	G4	S37			Marshes; lakes
Cyprinella callitaenia BLUESTRIPE SHINER	G2	S1		T	Brownwater streams
Cyprinella leedsi BANNERFIN SHINER	G3	S3S4			Blackwater & brownwater streams
Drymarchon corais couperi EASTERN INDIGO SNAKE	G4T3	S3	LT	T	Sandhills; pine flatwoods; dry hammocks
Elanoides forficatus AMERICAN SWALLOW-TAILED KITE	G5	S2		R	River swamps; marshes
Etheostoma edwini BROWN DARTER	G5	S3			Blackwater & brownwater streams; springs
Etheostoma parvipinne GOLDSTRIPE DARTER	G4G5	S2		R	Blackwater & brownwater streams; springs
Etheostoma swaini GULF DARTER	G5	S3			Brownwater & blackwater streams
Eumeces anthracinus COAL SKINK	G5	S1			Moist woods near streams, springs or bogs
Eumeces egregius MOLE SKINK	G4	S3			Coastal dunes; longleaf pine-turkey oak woods; dry hammocks
Falco sparverius paulus SOUTHEASTERN AMERICAN KESTREL	G5T3T4	S3			Pine forests; pine savannas
Farancia erythrogramma RAINBOW SNAKE	G5	S3			River swamps; springs; sandy fields near water
Fundulus auroguttatus BANDED TOPMINNOW	G4	S3		R	Blackwater streams; ponds; bays; freshwater marshes

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Appendix D - Applicant's Environmental Report
Attachment C Special-Status Species Correspondence

Sent By: GA-DNR, Wildlife Resources Div1; 706 557 3033;

Sep-9-02 15:56;

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Special Concern Animals Potentially Occurring in Southwest RDC Counties

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Fundulus chrysotus GOLDEN TOPMINNOW	G5	S3			Blackwater streams; ponds; bays; brackish streams
Fundulus escambiae EASTERN STARHEAD TOPMINNOW	G3G4	S3			Blackwater streams; ponds; bays
Gopherus polyphemus GOPHER TORTOISE	G3	S3		T	Sandhills, dry hammocks; longleaf pine-turkey oak woods
Graptemys barbouri BARBOUR'S MAP TURTLE	G2	S2		T	Rivers & creeks Apalachicola River drainage
Haldetrion wallacei GEORGIA BLIND SALAMANDER	G2	S1		T	Caves & underground streams; limesink ponds
Haliaeetus leucocephalus BALD EAGLE	G4	S2	LTNL	E	Edges of lakes & large rivers; seacoasts
Heterodon simus SOUTHERN HOGNOSE SNAKE	G4G5	S3			Open, sandy woods; fields; floodplains
Ichthyomyzon gagei SOUTHERN BROOK LAMPREY	G5	S3			Brownwater & blackwater streams
Kinosternon bauri STRIPED MUD TURTLE	G5	S3			River swamps, sloughs; ponds; marshes
Lampillus subangulata SHINY-RAYED POCKETBOOK	G2	S2	PE		sandy/rocky medium-sized rivers & creeks
Lanius ludovicianus migrans MIGRANT LOGGERHEAD SHRIKE	G4G5T3	S7			Open woods; field edges
Lasiurus intermedius NORTHERN YELLOW BAT	G4G5	S2S3			Wooded areas near open water or fields
Lepisosteus oculatus SPOTTED GAR	G5	S1			Brownwater streams; reservoirs
Lucania parva RAINWATER KILLIFISH	G5	S1			Ponds; creeks
Macroclmys temminckii ALLIGATOR SNAPPING TURTLE	G3G4	S3		T	Rivers; lakes; large ponds near streams, swamps
Medionidus penicillatus GULF MOCCASINSHELL	G2	S2	PE		Sandy/rocky medium-sized rivers & creeks
Micropterus notius SUWANNEE BASS	G2G3	S1		R	Springs; rocky shoals, blackwater streams
Micrurus fulvius EASTERN CORAL SNAKE	G5	S3			Hardwood forests; pine flatwoods; dry hammocks; marshes
Mycteria americana heronry WOOD STORK	G4	S2	LENL	E	Cypress/gum ponds; marshes, river swamps; bays
Myotis austroriparius SOUTHEASTERN MYOTIS	G4	S3S4			Caves & buildings near water
Nerodia floridana FLORIDA GREEN WATER SNAKE	G5	S2			Swamps; marshes; limesink ponds; bays

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Special Concern Animals Potentially Occurring in Southwest RDC Counties

Georgia Natural Heritage Program, 2117 US Hwy 278 SE, Social Circle, GA 30279, (770) 918-6411



Species Common Name	Global Rank	State Rank	Federal Status	State Status	Habitat
Notophthalmus perstriatus STRIPED NEWT	G2G3	S2		R	Pine flatwoods; ponds; ditches
Notropis harperi REDEYE CHUB	G4	S1		R	Springs & small streams
Nyctanassa violacea YELLOW-CROWNED NIGHT- HERON	G5	S3S4			River swamps; marshes; cypress/gum ponds
Nycticorax nycticorax BLACK-CROWNED NIGHT- HERON	G5	S3S4			River swamps; marshes; cypress/gum ponds
Picoides borealis RED-COCKADED WOODPECKER	G3	S2	LE	E	Open pine woods; pine savannas
Pituophis melanoleucus mugitus FLORIDA PINE SNAKE	G5T3?	S3			Upland forests; grasslands; floodplains; old field
Pleurobema pyriforme OVAL PIGTOE	G2	S2	PE		Sandy, medium-sized rivers & creeks
Pseudobranchius striatus DWARF SIREN	G5	S3			Swamps; marshes; limesink ponds; bays
Pseudotriton montanus MUD SALAMANDER	G5	S4			Swamps; muddy seeps; springs
Pteronotropis euryzonus BROADSTRIPE SHINER	G3	S1		R	Gravelly streams
Pteronotropis hypselopterus SAILFIN SHINER	G5	S3			Blackwater & brownwater streams
Pteronotropis welaka BLUENOSE SHINER	G4	S1		R	Blackwater & brownwater streams
Rana capito GOPHER FROG	G4	S?	C		Floodplains; wet meadows; pastures; ponds
Scartomyzon lachneri GREATER JUMPROCK	G3	S3			Brownwater streams
Seminatrix pygaea BLACK SWAMP SNAKE	G5	S3			Swamps; ponds; marshes; lakes
Umbra pygmaea EASTERN MUDMINNOW	G5	S3			Muddy streams & ponds

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Edition date: November 26, 2000

GEORGIA NATURAL HERITAGE PROGRAM

EXPLANATION OF CODES

FOR RARITY RANK AND LEGAL STATUS

The "State Rank" and "Global Rank" codes indicate relative rarity of species statewide and range-wide, respectively. An explanation of these codes follows. For further information please see www.natureserve.org/ranking.

STATE [GLOBAL] RANK

S1[G1]	Critically imperiled in state [globally] because of extreme rarity (5 or fewer occurrences).
S2[G2]	Imperiled in state [globally] because of rarity (6 to 20 occurrences).
S3[G3]	Rare or uncommon in state [rare and local throughout range or in a special habitat or narrowly endemic] (on the order of 21 to 100 occurrences).
S4[G4]	Apparently secure in state [globally] (of no immediate conservation concern).
S5[G5]	Demonstrably secure in state [globally].
SA	Accidental in state, including migratory or wide-ranging species recorded only once or twice or at very great intervals.
SN	Regularly occurring, usually migratory and typically nonbreeding species.
SR	Reported from the state, but without persuasive documentation (no precise site records and no verification of taxonomy).
SU[GU]	Possibly in peril in state [range-wide] but status uncertain; need more information on threats or distribution.
SX[GX]	Apparently extirpated from state [extinct throughout range]. GXC is known only in cultivation/captivity.
SE	An exotic established in state. May be native elsewhere in North America. Sometimes difficult to determine if native (SE?).
SH[GH]	Of historical occurrence in the state [throughout its range], perhaps not verified in the past 20 years, but suspected to be still extant.
[T]	Taxonomic subdivision (trinomial, either a subspecies or variety), used in a global rank, for example "G2T2."
Q	Denotes a taxonomic question - either the taxon is not generally recognized as valid, or there is reasonable concern about its validity or identity globally or at the state level.
?	Denotes questionable rank; best guess given whenever possible (e.g. S3?).

FEDERAL STATUS (US Fish and Wildlife Service, USFWS)

The following abbreviations are used to indicate the legal status of federally-protected plants and animals or those proposed for listing. For further information please see www.natureserve.org/status.

LE	Listed as endangered. The most critically imperiled species. A species that may become extinct or disappear from a significant part of its range if not immediately protected.
LT	Listed as threatened. The next most critical level of threatened species. A species that may become endangered if not protected.
PE or PT	Candidate species currently proposed for listing as endangered or threatened.
C	Candidate species presently under status review for federal listing for which adequate information exists on biological vulnerability and threats to list the taxa as endangered or threatened.
PDL	Proposed for delisting.
E(S/A) or T(S/A)	Listed as endangered or threatened because of similarity of appearance.
(PS)	Indicates "partial status" - status in only a portion of the species' range. Typically indicated in a "full" species record where an infraspecific taxon or population has U.S. ESA status, but the entire species does not.

STATE STATUS (Georgia Department of Natural Resources, GA-DNR)

The following abbreviations are used to indicate the status of state-protected plants and animals or those proposed for state-protection in Georgia.

E	Listed as endangered. A species which is in danger of extinction throughout all or part of its range
T	Listed as threatened. A species which is likely to become an endangered species in the foreseeable future throughout all or parts of its range.
R	Listed as rare. A species which may not be endangered or threatened but which should be protected because of its scarcity.
U	Listed as unusual (and thus deserving of special consideration). Uncommon plants subject to commercial exploitation would have this status.

NOTE:

This is a working list and is constantly revised. For the latest changes, acknowledgment of numerous sources, interpretation of data, or other information connected with this list, please contact:

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The proper citation for this list is:

Georgia Natural Heritage Program. [Edition date from top right corner]. [Title from top center]. Georgia Department of Natural Resources, Social Circle.

GEORGIA NATURAL HERITAGE PROGRAM DATABASE

Georgia rare species and natural community occurrence information is now available on our web site at

www.dnr.state.ga.us/dnr/wild/natural.html

It is presented as both a web page (HTML) and a GIS file (ESRI Shape File). The HTML format can be used directly from your browser. The Shape File can be downloaded and used with any program that supports ESRI Shape Files. The database file associated with this Shape File can be brought into a spreadsheet, database, or word processor and queried by county, quad, and quarter quad.

Locations are at the precision of one quarter (1/4) of a USGS 7.5 minute quadrangle map (quarter quad). Quarter quads are named using the USGS map name with a suffix (NW, SW, NE, and SE).

This information is for known locations only. To obtain lists of rare species potentially occurring in a given county, please contact our office. Also, you will still need to contact our office for more precise locations of rare species in the vicinity of projects you are working with.

Please continue to keep in mind that many areas of the state have not been surveyed for rare species (see full disclaimer on our web page).