

Appendix A:
**Trust Resources and Other
Species and Habitats of Concern**

Trust species known or suspected to occur on Great Dismal Swamp National Wildlife Refuge and Nansemond National Wildlife Refuge

Global and State ranks

These ranks are determined by the Nature Conservancy's system of measuring rarity and threat status. "Global" refers to worldwide ranks and "State" to statewide ranks. Following each state rank it will be noted "VA" for Virginia listings or "NC" for North Carolina listings.

Global ranking:

G1 = Extremely rare and critically imperiled; 5 or fewer remaining individuals; or some factor(s) making it especially vulnerable to extinction.

G2 = Very rare and imperiled; 6 to 20 occurrences or few remaining individuals; or some factor(s) making it vulnerable to extinction.

G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range; or vulnerable to extinction because of other factors. Usually fewer than 100 occurrences are documented.

G4 = Common and apparently secure globally; may be rare in parts of its range, especially at the periphery.

G5 = Very common and demonstrably secure globally; may be rare in parts of its range, especially at the periphery.

GH = Formerly part of the world's biota with expectation that it may be rediscovered.

GX = Believed extinct throughout its range with virtually no likelihood or rediscovery.

GU = Possibly rare, but status uncertain and more data needed.

G? = Unranked, or if following a ranking, rank uncertain (ex. G3?)

G_Q = the taxon has a questionable taxonomic assignment, such as a G3Q.

G_T_ = signifies the rank of a subspecies or variety. For example, a G5T1 would apply to a subspecies of a species that is demonstrably secure globally (G5) but the subspecies warrants a rank of T1, critically imperiled.

Virginia Natural Heritage Resources ranking:

S1 = Extremely rare and critically imperiled; 5 or fewer remaining individuals in Virginia; or some factor(s) making it especially vulnerable to extirpation in Virginia.

S2 = Very rare and imperiled; 6 to 20 occurrences or few remaining individuals remaining in Virginia; or some factor(s) making it vulnerable to extirpation in Virginia. S3 = Rare or uncommon in Virginia with between 20 and 100 occurrences.

S4 = Common and apparently secure with more than 100 occurrences; may be rare in parts of its range.

S5 = Very common and demonstrably secure in Virginia.

SH = Formerly part of the Virginia biota/fauna with expectation of rediscovery.

SX = Believed extirpated from Virginia with virtually no likelihood of rediscovery.

SE = Exotic; not believed to be a native component of Virginia's flora.

SR = Reported for Virginia, but without persuasive documentation which would provide a basis for either accepting or rejecting the report.

SRF = Reported for Virginia, but with convincing evidence that the report was in error.

SU = Possibly rare, but status uncertain and more data needed.

S_? = Rank uncertain.

S_S_ = Rank uncertain, but considered to be within the indicated range of ranks.

S_B/S_N = Breeding and non-breeding status of an animal (primarily, birds) in Virginia, when they differ.

SZN = Long distance migrant whose occurrences outside of the breeding season are not monitored; or species whose wintering populations are transitory and usually do not occur regularly at specific localities.

SN? = Long distance migrant that has been recorded north and south of Virginia waters and should eventually be found along the coast of Virginia.

SA = State accidental; not a regular member of the Virginia fauna but recorded in the state at least once.

North Carolina ranking:

S1 = Critically imperiled in North Carolina because of extreme rarity or other wise very vulnerable to extirpation in the state.

S2 = Imperiled in North Carolina because of rarity or other wise vulnerable to extirpation in the state.

S3 = Rare or uncommon in North Carolina.

S4 = Apparently secure in North Carolina with many occurrences.

S5 = Demonstrably secure in North Carolina and essentially ineradicable under present conditions.

SA = Accidental or casual; one to several records for North Carolina, but the state is outside the normal range of the species.

SH = Of historical occurrence in North Carolina, perhaps not having been verified in the past 25 years, and suspected to be still extant in the state.

SR = Reported from North Carolina, but without persuasive documentation for either accepting or rejecting the report.

SX = Believed to be extirpated from North Carolina.

SU = Possibly in peril in North Carolina, but status uncertain.

S? = Unranked, or rank uncertain.

S_B Rank of breeding population in the state. Used for migratory species only.

S_N = Rank of non-breeding population in the state. Used for migratory species only.

SZ_ = Population is not of significant conservation concern; applies to transitory, migratory species.

Federal Status

Federal statuses are designated by the US Fish and Wildlife Service.

LE	Listed Endangered	Threatened with extinction
LT	Listed Threatened	Likely to become endangered in the foreseeable future
PE	Proposed Endangered	Proposed for listing as endangered
PT	Proposed Threatened	Proposed for listing as threatened
C	Candidate	Enough information for listing, but of lesser priority
FSC	Federal "Species of Concern"	Also known as "Species at Risk"; formerly as "Candidate 2"

State Status

Virginia

Virginia statuses are designated under authority of the Virginia Department of Game and Inland Fisheries (all animals except insects) and Virginia Department of Agriculture and Consumer Services (insects and plants).

LE	Listed Endangered
LT	Listed Threatened
PE	Proposed Endangered
PT	Proposed Threatened
C	Candidate for listing as threatened or endangered
SC	Special Concern; animals that merit special concern (not legal category)

North Carolina

North Carolina statuses are provided by the NC Natural Heritage Program and differ for plants and animals.

NC Plant Status determined by the Plant Conservation Program (NC Department of Agriculture) and the Natural Heritage Program (NC Department of Environment and Natural Resources).

E	Endangered	Threatened with extinction
T	Threatened	Likely to become endangered in the foreseeable future
SC	Special Concern	Not listed as Threatened or Endanger; may be collected and sold only under specific regulations
C	Candidate	Very rare in NC and also rare throughout their ranges or disjunct in NC from a main range in a different part of the country or world.
SR	Significantly Rare	Vary rare in NC, but more common else where
-L	Limited	Limited to NC and adjacent states, but fewer than 50 populations rangewide
-T	Throughout	Rare throughout their ranges (fewer than 100 populations total)
-D	Disjunct	Disjunct to NC from a main range in a different part of the country or

		world
-P	Peripheral	At the periphery of its range in NC, more common elsewhere
-O	Other	Sporadic or cannot be described by the other categories
P_	Proposed	Formally proposed for listing as Endangered, Threatened, or Special Concern, but not yet completed listing process

NC animal statuses are determined by the Wildlife Resources Commission and the Natural Heritage Program.

E	Endangered	Threatened with extinction
T	Threatened	Likely to become endangered in the foreseeable future
SC	Special Concern	Not listed as Threatened or Endanger; may be taken only under special regulations
SR	Significantly Rare	Not listed as Endangered, Threatened, or Special Concern, but exist in The state in small numbers and determined to need monitoring
EX	Extirpated	A species which is no longer believed to occur in the state
P	Proposed	Proposed by a Scientific Council as a status different from the current Status, but not yet adopted by the Wildlife Resources Commission

Species of Concern and on State Watch Lists on the: Great Dismal Swamp National Wildlife Refuge

Federally Listed, Proposed and Candidate Species

Bald Eagle, *Haliaeetus leucocephalus* LT
Red-cockaded woodpecker, *Picoides borealis* LE

Federal Species of Concern

Dismal Swamp green stink bug, *Chorochoa dismalia*, G2
Scarce swamp skipper or Duke's skipper, *Duphyes dukesi*, G3
Virginia least trillium, *Trillium pusillum var. virginianum*, G3T2

State Species of Concern and Watch List Species (in addition to above)

Birds

Pied-billed grebe, *Gavia immer* G5 S1S2B/S3N
American bittern, *Botaurus lentiginosus*, G4 S1B/S2N
Great egret, *Ardea alba* G5 S2B/S3N SC
Snowy egret, *Egretta thula*, G5 S2B/S3N
Little blue heron, *Egretta caerulea*, G5 S2B/S2N SC
Yellow crowned night heron, *Nyctanassa violacea*, G5 S2 S3B/S3N SC
White ibis, *Eudocimus albus*, G5 S1B/S4N
Blue-winged teal, *Anas discors*, G5 S1B/S2N
Gadwall, *Anas strepera*, G5 S2B/S3N
Common merganser, *Mergus merganser*, G5 S1B/S4N
Northern Harrier, *Circus cyaneus*, G5 S1B/S3S4N SC
King rail, *Rallus elegans*, G4 G5 S2B/S3N
Sora, *Porzana carolina*, G5 S1B S2N
Common moorhen, *Gallinula chloropus*, G5 S1B/S1N

American coot, *Fulica americana*, G5 S1B/S5N
Spotted sandpiper, *Actitis macularia*, G5 S2B/S2N
Caspian tern, *Sterna caspia*, G5 S1B/S2N SC
Royal tern, *Sterna maxima*, G5 S2B/S2N
Yellow-bellied sapsucker, *Sphyrapicus varius*, G5 S1B/S4N
Red-breasted nuthatch, *Sitta canadensis*, G5 S2B/S4N SC
Winter wren, *Troglodytes troglodytes*
Golden-crowned kinglet, *Regulus satrapa*, G5 S2B/S5N SC
Swainson's thrush, *Catharus ustulatus*, G5 S1B/S2N
Hermit thrush, *Catharus guttatus*, G5 S1B/S5N SC
Loggerhead shrike, *Lanius ludovicianus*, G4 S2B/S3N LT
Magnolia warbler, *Dendroica magnolia*, G5 S2B/S2N
Blackburnian warbler, *Dendroica fusca*, G5, S2B/S2N
Swainson's warbler, *Limnothlypis swainsonii*, G4 S2B/S2N SC
Swamp sparrow, *Melospiza georgiana*, G5, S1B/S4N S5N
Purple finch, *Carpodacus purpureus*, G5 S1B/S5N SC

Butterflies

White-cedar hairstreak, *Callophrys hesseli*, G3 G4 S1

Damselflies

Blackwater bluet, *Enallagma weewa*, G5 S2
Pale bluet, *Enallagma pallidum*, G4 S1
Burgundy bluet, *Enallagma dubium*, G5 S2
Southern sprite, *Nehalennia integricollis*, G5 S2

Dragonflies

Two-striped forceptail, *Aphylla williamsoni* G5 S1
Stripe winged baskettail, *Epitheca costalis*, G4 S2
Robust baskettail, *Epitheca spinosa* G4 S2
Fine lined emerald, *Somatochlora filosa*, G5 S1S2
Treetop emerald, *Somatochlora provocans*, G4 S2
Jane's meadowhawk, *Sympetrum janeae*, G5 SH

Fish

Banded sunfish, *Enneacanthus obesus*, G5 S3

Mammals

Dismal Swamp southeastern shrew, *Sorex longirostris fisheri*, G5T4 S2 LT
Eastern big-eared bat, *Plecotus rafinescruci*, G3G4 S2 LE
Canebrake rattlesnake, *Crotalus horridus articaudatus*, G4 TUQ S1

Frogs and Toads

Oak toad, *Bufo quercicus*, G5 S1S2 SC
Carpenter frog, *Rana virgatipes*, G5 S3

Salamanders

Greater siren, *Siren lacertian*, G5 S3
Many-lined salamander, *Stereochilus marginatus*, G5 S3

Shrubs

Sheep laurel, *Kalmia augustifolia*, G5 S2
Silky Camellia, *Stewartia malacodendron*, G4 S3

Plants

Purple bladderwort, *Utricularia purpurea*, G5 S2

Nansemond National Wildlife Refuge

Northern diamond-backed terrapin, *Malaclemys terrapin terrapin*, G4T4 S4

