

APPENDIX G

Threatened and Endangered Species

This appendix provides a comprehensive list of the Federal and State Threatened and Endangered Species that are located in the New York/New Jersey/Philadelphia Airspace Redesign study area.

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G.1

Connecticut State and Federal Threatened and Endangered Species

Table D.1

**State and Federal Threatened and Endangered Species
Connecticut**

Category	Common Name	Species Name	Status
Mammals	Finback whale	<i>Balaenoptera physalus</i>	FE
	Right whale	<i>Balaena glacialis</i>	FE
	Gray wolf	<i>Canis lupus</i>	SSC
	Least shrew	<i>Cryptotis parva</i>	SE
	Eastern cougar	<i>Felis concolor couguar</i>	FE, SSC
	Gray seal	<i>Halichoerus grypus</i>	SSC
	Silver-haired bat	<i>Lasionycteris noctivagans</i>	SSC
	Red bat	<i>Lasiurus borealis</i>	SSC
	Hoary bat	<i>Lasiurus cinereus</i>	SSC
	Eastern small-footed bat	<i>Myotis leibii</i>	SSC
	Indiana bat	<i>Myotis sodalis</i>	SE
	Eastern woodrat	<i>Neotoma floridana</i>	SSC
	Harbor porpoise	<i>Phocoena phocoena</i>	SSC
	Southern bog lemming	<i>Synaptomys cooperi</i>	SSC
Birds	Cooper's hawk	<i>Accipiter cooperii</i>	ST
	Sharp-shinned hawk	<i>Accipiter striatus</i>	SE
	Northern saw-whet owl	<i>Aegolius acadicus</i>	SSC
	Saltmarsh Sharp-tailed sparrow	<i>Ammodramus caudacutus</i>	SSC
	Henslow's Sparrow	<i>Ammodramus henslowii</i>	SSC
	Seaside sparrow	<i>Ammodramus maritimus</i>	SSC
	Grasshopper sparrow	<i>Ammodramus savannarum</i>	SE
	Blue-winged teal	<i>Anas discors</i>	ST
	Great egret	<i>Ardea albus</i>	ST
	Short-eared owl	<i>Asio flammeus</i>	ST
	Long-eared owl	<i>Asio otus</i>	SE
	Upland sandpiper	<i>Bartramia longicauda</i>	SE
	American bittern	<i>Botaurus lentiginosus</i>	SE
	Cattle egret	<i>Bubulcus ibis</i>	SSC
	Red-shouldered hawk	<i>Buteo lineatus</i>	SSC
	Whip-poor-will	<i>Caprimulgus vociferus</i>	SSC
	Willet	<i>Catoptrophorus semipalmatus</i>	SSC
	Piping plover	<i>Charadrius melodus</i>	FT, ST
	Common nighthawk	<i>Chordeiles minor</i>	ST
	Northern harrier	<i>Circus cyaneus</i>	SE
	Sedge wren	<i>Cistothorus platensis</i>	SE
	Olive-sided flycatcher	<i>Contopus borealis</i>	SSC
	Common raven	<i>Corvus corax</i>	SSC
	Little blue heron	<i>Egretta caerulea</i>	SSC
	Snowy egret	<i>Egretta thula</i>	ST
	Alder flycatcher	<i>Empidonax alnorum</i>	SSC
	Horned lark	<i>Eremophila alpestris</i>	ST
	Peregrine falcon	<i>Falco peregrinus</i>	SE
	American kestrel	<i>Falco sparverius</i>	SSC
	Common moorhen	<i>Gallinula chloropus</i>	SE
	Common loon	<i>Gavia immer</i>	SSC
	American oyster-catcher	<i>Haematopus palliatus</i>	SSC
	Bald eagle	<i>Haliaeetus leucocephalus</i>	FT, SE
	Yellow-breasted chat	<i>Icteria virens</i>	SE
	Least bittern	<i>Ixobrychus exilis</i>	ST
	Black rail	<i>Laterallus jamaicensis</i>	SE
	Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	SE
	Eskimo curlew	<i>Numenius borealis</i>	SSC
	Yellow-crowned night-heron	<i>Nyctanassa violacea</i>	SSC
	Northern parula	<i>Parula americana</i>	SSC
	Savannah sparrow	<i>Passerculus sandwichensis</i>	SSC
	Ipswich sparrow	<i>Passerculus sandwichensis ssp. princeps</i>	SSC
	Glossy ibis	<i>Plegadis falcinellus</i>	SSC
	Pied-billed grebe	<i>Podilymbus podiceps</i>	SE
	Vesper sparrow	<i>Pooecetes gramineus</i>	SE
	Purple martin	<i>Progne subis</i>	SSC
	King rail	<i>Rallus elegans</i>	SE
Least tern	<i>Sterna antillarum</i>	ST	

Table D.1

**State and Federal Threatened and Endangered Species
Connecticut**

Category	Common Name	Species Name	Status
	Roseate tern	<i>Sterna dougallii</i>	FE, SE
	Common tern	<i>Sterna hirundo</i>	SSC
	Eastern meadowlark	<i>Sturnella magna</i>	SSC
	Brown thrasher	<i>Toxostoma rufum</i>	SSC
	Barn owl	<i>Tyto alba</i>	SE
	Golden-winged warbler	<i>Vermivora chrysoptera</i>	ST
Reptiles	Loggerhead	<i>Caretta caretta</i>	FT, ST
	Atlantic green turtle	<i>Chelonia mydas</i>	FT, ST
	Wood turtle	<i>Clemmys insculpta</i>	SSC
	Bog turtle	<i>Clemmys muhlenbergii</i>	FT, SE
	Timber rattlesnake	<i>Crotalus horridus</i>	SE
	Leatherback	<i>Dermochelys coriacea</i>	FE, SE
	Hawksbill	<i>Eretmochelys imbricata</i>	FE
	Five-lined skink	<i>Eumeces fasciatus</i>	ST
	Eastern hognose snake	<i>Heterodon platirhinos</i>	SSC
	Atlantic ridley	<i>Lepidochelys kempii</i>	FE, SE
	Eastern box turtle	<i>Terrapene c. carolina</i>	SSC
	Eastern ribbon snake	<i>Thamnophis sauritus</i>	SSC
Amphibians	Jefferson salamander complex	<i>Ambystoma jeffersonianum</i>	SSC
	Blue-spotted salamander complex	<i>Ambystoma laterale</i>	SSC
	Blue-spotted salamander	<i>Ambystoma laterale</i>	ST
	Northern Spring salamander	<i>Gyrinophilus porphyriticus</i>	ST
	Northern Slimy salamander	<i>Plethodon glutinosus</i>	ST
	Northern leopard frog	<i>Rana pipiens</i>	SSC
	Eastern Spadefoot	<i>Scaphiopus holbrookii</i>	SE
Fish	Shortnose sturgeon	<i>Acipenser brevirostrum</i>	FE, SE
	Atlantic sturgeon (in freshwater)	<i>Acipenser oxyrinchus</i>	ST
	Longnose sucker	<i>Catostomus catostomus</i>	SSC
	Banded sunfish	<i>Enneacanthus obesus</i>	ST
	American brook lamprey	<i>Lampetra appendix</i>	SE
	Burbot	<i>Lota lota</i>	SE
Invertebrates	Albarufan dagger moth *	<i>Acronicta albarufa</i>	SSC
	Noctuid moth *	<i>Acronicta lanceolaria</i>	SSC
	Ground beetle	<i>Agonum mutatum</i>	SSC
	Noctuid moth *	<i>Agrotis stigmata</i>	SSC
	Dwarf wedge mussel +	<i>Alasmidonta heterodon</i>	FE, SE
	Brook floater	<i>Alasmidonta varicosa</i>	SE
	Ground beetle	<i>Amara chalcea</i>	SSC
	Roadside skipper	<i>Amblyscirtes vialis</i>	SSC
	Noctuid moth	<i>Anarta luteola</i>	SE
	Mayfly	<i>Anthopotamus verticis</i>	SSC
	Noctuid moth	<i>Apamea burgessi</i>	SSC
	New Jersey tea inchworm	<i>Apodrepanulatrix liberaria</i>	SSC
	Tabanid fly	<i>Atylotus ohioensis</i>	SSC
	Ground beetle	<i>Badister transversus</i>	SSC
	Mayfly	<i>Baetisca laurentina</i>	SSC
	Ground beetle	<i>Bembidion pseudocautum</i>	SSC
	Ground beetle	<i>Bembidion quadratum</i>	SSC
	Ground beetle	<i>Bembidion semicinctum</i>	SSC
	Ground beetle*	<i>Brachinus cyanipennis</i>	SSC
	Northern metalmark	<i>Calephelis borealis</i>	SE
	Superb jewelwing	<i>Calopteryx amata</i>	SSC
	Sparkling jewelwing	<i>Calopteryx dimidiata</i>	SSC
	Ground beetle*	<i>Calosoma wilcoxi</i>	SSC
	Ground beetle*	<i>Carabus serratus</i>	SSC
	Ground beetle*	<i>Carabus sylvosus</i>	SSC
	Ground beetle*	<i>Carabus vinctus</i>	SSC
	Herodias underwing *	<i>Catocala herodia gerhardi</i>	SSC
	Precious underwing moth *	<i>Catocala pretiosa</i>	SSC
	Appalachian blue	<i>Celastrina neglectamajor</i>	SSC
	Noctuid moth *	<i>Chaetagnela cerata</i>	SSC
	Northeastern beach tiger beetle *^	<i>Cicindela dorsalis dorsalis</i>	FT, SSC
	Tiger beetle	<i>Cicindela formosa generosa</i>	ST

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**State and Federal Threatened and Endangered Species
Connecticut**

Category	Common Name	Species Name	Status
	Tiger beetle	<i>Cicindela hirticollis</i>	SSC
	Tiger beetle	<i>Cicindela marginata</i>	SSC
	Puritan tiger beetle ^	<i>Cicindela puritana</i>	FT, SE
	Tiger beetle*	<i>Cicindela purpurea</i>	SSC
	Tiger beetle	<i>Cicindela tranquebarica</i>	SSC
	Mayfly	<i>Cinygmula subaequalis</i>	SSC
	Regal moth *	<i>Citheronia regalis</i>	SSC
	Tiger spiketail	<i>Cordulegaster erronea</i>	ST
	Mystic Valley amphipod	<i>Crangonyx aberrans</i>	SSC
	Noctuid moth	<i>Cucullia speyeri</i>	SSC
	Imperial moth *	<i>Eacles imperialis</i>	SSC
	Virginia River snail	<i>Elimia virginica</i>	SE
	Atlantic bluet	<i>Enallagma doubledayi</i>	SSC
	Little bluet	<i>Enallagma minusculum</i>	ST
	Scarlet bluet	<i>Enallagma pictum</i>	SSC
	Sleepy duskywing	<i>Erynnis brizo</i>	ST
	Columbine duskywing	<i>Erynnis lucilius</i>	SSC
	Mottled duskywing *	<i>Erynnis martialis</i>	SSC
	Persius duskywing	<i>Erynnis persius persius</i>	SE
	Noctuid moth	<i>Eucoptocnemis fimbriaris</i>	SSC
	Clam shrimp*	<i>Eulimnadia agassizii</i>	SSC
	Two-spotted skipper	<i>Euphyes bimacula</i>	ST
	Sedge skipper	<i>Euphyes dion</i>	ST
	Noctuid moth *	<i>Euxoa pleuritica</i>	SSC
	Violet dart moth *	<i>Euxoa violaris</i>	SSC
	Pitcher plant moth	<i>Exyra rolandiana</i>	SSC
	Lymnaeid snail *	<i>Fossaria galbana</i>	SSC
	Lymnaeid snail	<i>Fossaria rustica</i>	SSC
	Ground beetle*	<i>Geopinus incrassatus</i>	SSC
	Midland clubtail	<i>Gomphus fraternus</i>	SSC
	Cobra clubtail	<i>Gomphus vastus</i>	SSC
	Horse fly	<i>Goniops chrysocoma</i>	SSC
	Phyllira tiger moth *	<i>Grammia phyllira</i>	SSC
	Bog tiger moth	<i>Grammia speciosa</i>	SE
	Aquatic snail	<i>Gyraulus circumstriatus</i>	SSC
	Slender clearwing *	<i>Hemaris gracilis</i>	SSC
	Buck moth	<i>Hemileuca maia</i>	SE
	Horse fly	<i>Hybomitra frosti</i>	ST
	Horse fly	<i>Hybomitra longiglossa</i>	SE
	Horse fly	<i>Hybomitra lurida</i>	SSC
	Horse fly	<i>Hybomitra trepida</i>	SSC
	Horse fly	<i>Hybomitra typhus</i>	SSC
	Hop vine borer moth *	<i>Hydraecia immanis</i>	SSC
	Henry's elfin	<i>Incisalia henrici</i>	SSC
	Frosted elfin	<i>Incisalia irus</i>	SSC
	Hoary elfin *	<i>Incisalia polios</i>	SSC
	Dragonfly	<i>Ladona deplanata</i>	SSC
	Yellow lampmussel *	<i>Lampsilis cariosa</i>	SSC
	Noctuid moth *	<i>Lepipolys perscripta</i>	SSC
	Tidewater mucket	<i>Leptodea ochracea</i>	ST
	Mayfly	<i>Leptophlebia bradleyi</i>	SSC
	Crimson-ringed whiteface	<i>Leucorrhinia glacialis</i>	ST
	Golden-winged skimmer	<i>Libellula auripennis</i>	SSC
	Eastern pond mussel	<i>Ligumia nasuta</i>	SSC
	Lemmer's noctuid moth *	<i>Lithophane lemmeri</i>	SSC
	Pale green pinion moth *	<i>Lithophane viridipallens</i>	SSC
	Black lordithon rove beetle *	<i>Lordithon niger</i>	SSC
	Ground beetle	<i>Loxandrus velocipes</i>	SSC
	Bog copper	<i>Lycaena epixanthe</i>	SSC
	Bronze copper	<i>Lycaena hyllus</i>	SSC
	Eastern pearlshell	<i>Margaritifera margaritifera</i>	SSC
	Newman's brocade *	<i>Meropleon ambifusca</i>	SSC
	Tabanid fly	<i>Merycomia whitneyi</i>	SSC

Table D.1

**State and Federal Threatened and Endangered Species
Connecticut**

Category	Common Name	Species Name	Status
	Geometer moth *	<i>Metarranthis apicaria</i>	SSC
	Hessel's hairstreak	<i>Mitoura hesseli</i>	SE
	Syrphid fly *	<i>Mixogaster johnsoni</i>	SSC
	American burying beetle *+	<i>Nicrophorus americanus</i>	SSC
	Ground beetle*	<i>Omophron tessellatum</i>	SSC
	Ground beetle*	<i>Panagaeus fasciatus</i>	SSC
	Pitcher plant borer	<i>Papaipema appassionata</i>	SE
	Borer moth*	<i>Papaipema circumlucens</i>	SSC
	Goldenrod stem borer	<i>Papaipema duovata</i>	SSC
	Columbine borer	<i>Papaipema leucostigma</i>	SSC
	Borer moth *	<i>Papaipema maritima</i>	SSC
	Borer moth *	<i>Papaipema sciata</i>	SSC
	Giant swallowtail	<i>Papilio cresphontes</i>	SSC
	Mayfly	<i>Paraleptophlebia assimilis</i>	SSC
	Labrador tea tentiform Leafminor	<i>Phyllonorycter ledella</i>	SE
	Gray comma*	<i>Polygonia progne</i>	SSC
	Slenderwalker	<i>Pomatiopsis lapidaria</i>	SSC
	Whiteriver crayfish*	<i>Procambarus acutus</i>	SSC
	Common sanddragon	<i>Progomphus obscurus</i>	ST
	Noctuid moth	<i>Psectraglaea carnosus</i>	SSC
	Ceromatic noctuid moth *	<i>Pyreferra ceromatica</i>	SSC
	Orange sallow moth	<i>Rhodoecia aurantiago</i>	SSC
	Soldier fly	<i>Sargus fasciatus</i>	SSC
	Eyed brown	<i>Satyrodes eurydice</i>	SSC
	Ground beetle*	<i>Scaphinotus viduus</i>	SSC
	Noctuid moth	<i>Schinia spinosae</i>	SSC
	Spongillafly	<i>Sisyra fuscata</i>	SSC
	Ski-tailed emerald	<i>Somatochlora elongata</i>	SSC
	Regal fritillary *	<i>Speyeria idalia</i>	SSC
	Purse web spider *	<i>Sphodros niger</i>	SSC
	Lymnaeid snail	<i>Stagnicola catascopium</i>	SSC
	Tabanid fly	<i>Stonemyia isabellina</i>	SSC
	Piedmont groundwater amphipod	<i>Stygobromus tenuis tenuis</i>	SSC
	Riverine clubtail	<i>Stylurus amnicola</i>	SSC
	Arrow clubtail	<i>Stylurus spiniceps</i>	SSC
	Coastal pond amphipod	<i>Synurella chamberlaini</i>	SSC
	Horse fly	<i>Tabanus fulvicallus</i>	SSC
	Ground beetle	<i>Tetragonoderus fasciatus</i>	SSC
	Cicada *	<i>Tibicen auletes</i>	SSC
	Mosquito	<i>Toxorhynchites rutilus</i>	SSC
	Boreal turret snail	<i>Valvata sincera</i>	SSC
	Turret snail	<i>Valvata tricarinata</i>	SSC
	Banded bog skimmer	<i>Williamsonia lintneri</i>	SE
	Noctuid moth	<i>Zale curema</i>	SSC
	Noctuid moth	<i>Zale obliqua</i>	SSC
	Noctuid moth	<i>Zale submediana</i>	ST
	Noctuid moth	<i>Zanclognatha martha</i>	ST

Source: United States Fish and Wildlife Service (January 2003).

Connecticut Department of Environmental Protection (Threatened & Endangered Species Listed January 2003).

Status Definitions: FE – Federally Endangered
 FT – Federally Threatened
 SE – State Endangered
 ST – State Threatened
 SSC – State Species of Concern

G.2

**Delaware State and Federal
Threatened and Endangered Species**

Table D.2

**State and Federal Threatened and Endangered Species
Delaware**

Category	Common Name	Species Name	Status
Mammals	Finback whale	<i>Balaenoptera physalus</i>	FE
	Right whale	<i>Balaena glacialis</i>	FE
	Eastern cougar	<i>Felis concolor couguar</i>	FE
	Humpback Whale	<i>Megaptera novaeangliae</i>	FE
	Delmarva Peninsula Squirrel	<i>Sciurus niger cinereus</i>	FE, SE
Birds	Cooper's hawk	<i>Accipiter cooperii</i>	SE
	Henslow's Sparrow	<i>Ammodramus henslowii</i>	SE
	Short-eared owl	<i>Asio flammeus</i>	SE
	Upland sandpiper	<i>Bartramia longicauda</i>	SE
	Brown Creeper	<i>Certhia americana</i>	SE
	Piping plover	<i>Charadrius melodus</i>	FT, SE
	Northern harrier	<i>Circus cyaneus</i>	SE
	Sedge wren	<i>Cistothorus platensis</i>	SE
	Cerulean Warbler	<i>Dendroica cerulean</i>	SE
	American Oystercatcher	<i>Haematopus palliatus</i>	SE
	Bald Eagle	<i>Haliaeetus leucocephalus</i>	FT, SE
	Loggerhead Shrike	<i>Lanius ludovicianus</i>	SE
	Black rail	<i>Laterallus jamaicensis</i>	SE
	Swainson's Warbler	<i>Limothlypis swainsonii</i>	SE
	Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>	SE
	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	SE
	Yellow-crowned night-heron	<i>Nyctanassa violacea</i>	SE
	Northern Parula	<i>Parula americana</i>	SE
	Pied-Billed Grebe	<i>Podilymbus podiceps</i>	SE
	Black Skimmer	<i>Rynchops niger</i>	SE
Least Tern	<i>Sterna antillarum</i>	SE	
Forster's Tern	<i>Sterna forsteri</i>	SE	
Common Tern	<i>Sterna hirundo</i>	SE	
Hooded Warbler	<i>Wilsonia citrina</i>	SE	
Reptiles	Loggerhead	<i>Caretta caretta</i>	FT, SE
	Atlantic green turtle	<i>Chelonia mydas</i>	FT, SE
	Bog turtle	<i>Clemmys muhlenbergii</i>	FT, SE
	Leatherback Sea Turtle	<i>Dermochelys coriacea</i>	FE, SE
	Hawksbill Sea Turtle	<i>Eretmochelys imbricata</i>	FE
	Atlantic Ridley Sea Turtle	<i>Lepidochelys kempii</i>	FE, SE
	Corn Snake	<i>Elaphe guttata guttata</i>	SE
Amphibians	Eastern Tiger Salamander	<i>Ambystoma tigrinum tigrinum</i>	SE
	Barking Treefrog	<i>Hyla gratiosa</i>	SE
Fish	Shortnose sturgeon	<i>Acipenser brevirostrum</i>	FE
	Atlantic sturgeon	<i>Acipenser oxyrinchus</i>	SE
Invertebrates	Dwarf Wedgemussel	<i>Alasmidonta heterodon</i>	SE
	Brook Floater	<i>Alasmidonta varicosa</i>	SE
	White Tiger beetle	<i>Cicindela dorsalis</i>	SE
	Little White Tiger Beetle	<i>Cicindela lepida</i>	SE
	Seth Forest Scavenger Beetle	<i>Hydrochus spp.</i>	SE
	Frosted elfin	<i>Incisalia irus</i>	SE
	Yellow Lampmussel *	<i>Lampsilis cariosa</i>	SE
	Eastern Lampmussel	<i>Lampsilis radiata</i>	SE
	Tidewater Mucket	<i>Leptodea ochracea</i>	SE
	Eastern Pondmussel	<i>Ligumia nasuta</i>	SE
	Hessel's hairstreak	<i>Mitoura hesseli</i>	SE
	Bethany Firefly	<i>Photuris bethaniensis</i>	SE
	Mulberry Wing	<i>Poanes massasoit chermocki</i>	SE
	Rare Skipper	<i>Problemata bulenta</i>	SE
	King's Hairstreak	<i>Satyrrium kingi</i>	SE

Source: United States Fish and Wildlife Service (January 2003).
Delaware Department of Natural Resources & Environmental Control (Threatened & Endangered Species Listed January 2003).

Status Definitions: FE – Federally Endangered
FT – Federally Threatened
SE – State Endangered
ST – State Threatened

G.3

New Jersey State and Federal Threatened and Endangered Species

Table D.3

**State and Federal Threatened and Endangered Species
New Jersey**

Category	Common Name	Species Name	Status
Mammals	Blue Whale	<i>Balaenoptera musculus</i>	SE
	Fin Whale	<i>Balaenoptera physalus</i>	FE, SE
	Sei Whale	<i>Balaenoptera borealis</i>	SE
	Black right Whale	<i>Balaena glacialis</i>	FE, SE
	Bobcat	<i>Lynx rufus</i>	SE
	Humpback Whale	<i>Megaptera novaeangliae</i>	FE, SE
	Indiana Bat	<i>Myotis sodalis</i>	FE, SE
	Allegheny Woodrat	<i>Neotoma floridana magister</i>	SE
	Sperm Whale	<i>Physeter macrocephalus</i>	SE
	Eastern Puma	<i>Puma concolor cougar</i>	FE
Birds	Cooper's Hawk	<i>Accipiter cooperii</i>	ST
	Northern Goshawk	<i>Accipiter gentilis</i>	SE
	Henslow's Sparrow	<i>Ammodramus henslowii</i>	SE
	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	ST
	Short-eared Owl	<i>Asio flammeus</i>	SE
	Long-eared Owl	<i>Asio otus</i>	ST
	Upland Sandpiper	<i>Batramia longicauda</i>	SE
	American bittern	<i>Botaurus lentiginosus</i>	SE
	Red-shouldered Hawk	<i>Buteo lineatus</i>	SE
	Red Knot	<i>Calidris canutus</i>	ST
	Piping Plover	<i>Charadrius melodus</i>	FT, SE
	Northern Harrier	<i>Circus cyaneus</i>	SE
	Sedge Wren	<i>Cistothorus platensis</i>	SE
	Bobolink	<i>Dolichonyx oryzivorus</i>	ST
	Peregrine Falcon	<i>Falco peregrinus</i>	SE
	Bald Eagle	<i>Haliaeetus leucocephalus</i>	FT, SE
	Loggerhead Shrike	<i>Lanius ludovicianus</i>	SE
	Black Rail	<i>Laterallus jamaicensis</i>	ST
	Red-headed Woodpecker	<i>Meanerpes erythrocephalus</i>	ST
	Yellow-crowned Night-heron	<i>Nyctanassa violaceus</i>	ST
	Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	ST
	Osprey	<i>Pandion haliaetus</i>	ST
	Savannah Sparrow	<i>Passerculus sandwichensis</i>	ST
	Pied-Billed Grebe	<i>Podilymbus podiceps</i>	SE
	Vesper Sparrow	<i>Pooecetes gramineus</i>	SE
	Black Skimmer	<i>Rynchops niger</i>	SE
	Least Tern	<i>Sterna antillarum</i>	SE
Roseate Tern	<i>Sterna dougallii</i>	FE, SE	
Barred Owl	<i>Strix varia</i>	ST	
Reptiles	Atlantic Loggerhead	<i>Caretta caretta</i>	FT, SE
	Atlantic green turtle	<i>Chelonia mydas</i>	ST
	Wood turtle	<i>Clemmys insculpta</i>	ST
	Bog turtle	<i>Clemmys muhlenbergii</i>	FT, SE
	Timber rattlesnake	<i>Crotalus horridus</i>	SE
	Atlantic Leatherback	<i>Dermochelys coriacea</i>	FE, SE
	Corn Snake	<i>Elaphe g. guttata</i>	SE
	Atlantic Hawksbill	<i>Eretmochelys imbricata</i>	FE, SE
	Atlantic Ridley	<i>Lepidochelys kempii</i>	FE, SE
	Northern Pine Snake	<i>Pituophis m. melanoleucus</i>	ST
Amphibians	Blue-spotted salamander	<i>Ambystoma laterale</i>	SE
	Eastern tiger Salamander	<i>Ambystoma tigrinum</i>	SE
	Tremblay's Salamander	<i>Ambystoma tremblayi</i>	SE
	Long-tailed Salamander	<i>Eurycea longicauda</i>	ST
	Pine Barrens Treefrog	<i>Hyla andersonii</i>	SE
	Southern Gray Treefrog	<i>Hyla chrysocelis</i>	SE
Eastern mud Salamander	<i>Pseudotriton montanus</i>	ST	
Fish	Shortnose sturgeon	<i>Acipenser brevirostrum</i>	FE, SE
Invertebrates	Dwarf Wedgemussel	<i>Alasmidonta heterodon</i>	FE, SE
	Triangle (mussel) Floater	<i>Alasmidonta undulate</i>	ST
	Brook (mussel) Floater	<i>Alasmidonta varicosa</i>	SE
	Arogos Skipper	<i>Atrytone arogos arogos</i>	SE
	Silver-bordered Fritillary	<i>Bolaria selene myrina</i>	ST

Table D.3

**State and Federal Threatened and Endangered Species
New Jersey**

Category	Common Name	Species Name	Status
	Frosted Elfin	<i>Callophrys irus</i>	ST
	Northeastern beach tiger beetle	<i>Cicindela dorsalis dorsalis</i>	FT, SE
	Yellow Lampmussel	<i>Lampsilis cariosa</i>	ST
	Eastern Lampmussel	<i>Lampsilis radiata</i>	ST
	Green (mussel) Floater	<i>Lasmigona subviridis</i>	SE
	Tidewater Mucket	<i>Leptodea ochracea</i>	ST
	Eastern Pondmussel	<i>Ligumia nasuta</i>	ST
	Bronze Copper	<i>Lycaena hyllus</i>	SE
	Mitchell's Satyr	<i>Neonympha mitchellii</i>	SE
	American Burying Beetle	<i>Nicrophorus mericanus</i>	SE
	Checkered White	<i>Prontia protodice</i>	ST
	Appalachian Grizzled Skipper	<i>Pyrgus wyandot</i>	SE

Source: United States Fish and Wildlife Service (January 2003).

New Jersey Department of Environmental Protection (Threatened & Endangered Species Listed January 2003).

Status Definitions: FE – Federally Endangered
 FT – Federally Threatened
 SE – State Endangered
 ST – State Threatened

G.4

New York State and Federal Threatened and Endangered Species

Table D.4

**State and Federal Threatened and Endangered Species
New York**

Category	Common Name	Species Name	Status
Mammals	Sei Whale	<i>Balaenoptera borealis</i>	SE
	Blue Whale	<i>Balaenoptera musculus</i>	SE
	Finback Whale	<i>Balaenoptera physalus</i>	FE, SE
	Right Whale	<i>Balaena glacialis</i>	FE, SE
	Gray Wolf	<i>Canis lupus</i>	SE
	Cougar	<i>Felis concolor</i>	SE
	Canada Lynx	<i>Lynx canadensis</i>	FT, ST
	Humpback Whale	<i>Megaptera novaeangliae</i>	FE, SE
	Small-footed Bat	<i>Myotis leibii</i>	SSC
	Indiana Bat	<i>Myotis sodalis</i>	FE, SE
	Allegheny Woodrat	<i>Neotoma floridana magister</i>	SE
	Harbor Porpoise	<i>Phocoena phocoena</i>	SSC
	Sperm Whale	<i>Physeter catodon</i>	SE
	Eastern Puma	<i>Puma concolor cougar</i>	FE
	New England Cottontail	<i>Sylvilagus transitionalis</i>	SSC
Birds	Cooper's Hawk	<i>Accipiter cooperii</i>	SSC
	Northern Goshawk	<i>Accipiter gentilis</i>	SSC
	Sharp-skinned Hawk	<i>Accipiter striatus</i>	SSC
	Henslow's Sparrow	<i>Ammodramus henslowii</i>	ST
	Seaside Sparrow	<i>Ammodramus maritimus</i>	SSC
	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	SSC
	Golden Eagle	<i>Aquila chrysaetos</i>	SE
	Short-eared Owl	<i>Asio flammeus</i>	SE
	Upland Sandpiper	<i>Batramia longicauda</i>	ST
	American bittern	<i>Botaurus lentiginosus</i>	SSC
	Red-shouldered Hawk	<i>Buteo lineatus</i>	SSC
	Whip-poor-will	<i>Caprimulgus vociferus</i>	SSC
	Bicknell's Thrush	<i>Catharus bicknelli</i>	SSC
	Piping Plover	<i>Charadrius melodus</i>	FE, SE
	Black Tern	<i>Chlidonias niger</i>	SE
	Common Nighthawk	<i>Chordeiles minor</i>	SSC
	Northern Harrier	<i>Circus cyaneus</i>	ST
	Sedge Wren	<i>Cistothorus platensis</i>	ST
	Cerulean Warbler	<i>Dendroica cerulea</i>	SSC
	Horned Lark	<i>Eremophila alpestris</i>	SSC
	Spruce Grouse	<i>Falcapennis canadensis</i>	SE
	Peregrine Falcon	<i>Falco peregrinus</i>	SE
	Common Loon	<i>Gavia immer</i>	SSC
	Bald Eagle	<i>Haliaeetus leucocephalus</i>	FT, ST
	Yellow-breasted Chat	<i>Icteria virens</i>	SSC
	Least Bittern	<i>Ixobrychus exilis</i>	ST
	Loggerhead Shrike	<i>Lanius ludovicianus</i>	SE
	Black Rail	<i>Laterallus jamaicensis</i>	SE
	Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	SSC
	Eskimo Curlew	<i>Numenius borealis</i>	SE
	Osprey	<i>Pandion haliaetus</i>	SSC
	Pied-Billed Grebe	<i>Podilymbus podiceps</i>	ST
	Vesper Sparrow	<i>Poocetes gramineus</i>	SSC
King Rail	<i>Rallus elegans</i>	ST	
Black Skimmer	<i>Rynchops niger</i>	SSC	
Least Tern	<i>Sterna antillarum</i>	ST	
Roseate Tern	<i>Sterna dougalii</i>	FE, SE	
Common Tern	<i>Sterna hirundo</i>	ST	
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	SSC	
Reptiles	Eastern Spiny Softshell	<i>Apalone spinifera</i>	SSC
	Atlantic Loggerhead	<i>Caretta caretta</i>	FT, ST
	Worm Snake	<i>Carphophis amoenus</i>	SSC
	Atlantic green turtle	<i>Chelonia mydas</i>	FT, ST
	Spotted Turtle	<i>Clemmys guttata</i>	SSC
	Wood Turtle	<i>Clemmys insculpta</i>	SSC
	Bog turtle	<i>Clemmys muhlenbergii</i>	FT, SE
	Timber rattlesnake	<i>Crotalus horridus</i>	ST

Table D.4

**State and Federal Threatened and Endangered Species
New York**

Category	Common Name	Species Name	Status
	Atlantic Leatherback	<i>Dermochelys coriacea</i>	FE, SE
	Blanding's Turtle	<i>Emydoidea blandingii</i>	ST
	Atlantic Hawksbill	<i>Eretmochelys imbricata</i>	FE, SE
	Eastern Hognose Snake	<i>Heterodon platyrhinos</i>	SSC
	Mud Turtle	<i>Kinosternon subrubrum</i>	SE
	Atlantic Ridley	<i>Lepidochelys kempii</i>	FE, SE
	Queen Snake	<i>Regina septemvittata</i>	SE
	Massasauga	<i>Sistrurus catenatus</i>	SE
	Fence Lizard	<i>Sceloporus undulatus</i>	ST
	Eastern Box Turtle	<i>Terrapene carolina</i>	SSC
Amphibians	Northern Cricket Frog	<i>Acris crepitans</i>	SE
	Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	SSC
	Blue-spotted Salamander	<i>Ambystoma laterale</i>	SSC
	Marbled Salamander	<i>Ambystoma opacum</i>	SSC
	Eastern tiger Salamander	<i>Ambystoma tigrinum</i>	SE
	Hellbender	<i>Cryptobranchus alleganiensis</i>	SSC
	Longtail Salamander	<i>Eurycea longicauda</i>	SSC
	Southern Leopard Frog	<i>Rana sphenoccephala utricularius</i>	SSC
	Eastern Spadefoot Toad	<i>Scaphiopus holbrookii</i>	SSC
Fish	Mud Sunfish	<i>Acantharchus pomotis</i>	ST
	Shortnose sturgeon	<i>Acipenser brevirostrum</i>	FE, SE
	Lake Sturgeon	<i>Acipenser fulvescens</i>	ST
	Eastern Sand Darter	<i>Ammocrypta pellucida</i>	ST
	Spoonhead Sculpin	<i>Cottus ricei</i>	SE
	Banded Sunfish	<i>Enneacanthus obesus</i>	ST
	Streamline Chub	<i>Erymystax dissimilis</i>	SSC
	Gravel Chub	<i>Erimystax x-punctata</i>	ST
	Lake Chubsucker	<i>Erimyzon sucetta</i>	ST
	Bluebreast Darter	<i>Etheostoma camurum</i>	SE
	Swamp Darter	<i>Etheostoma fusiforme</i>	ST
	Spotted Darter	<i>Etheostoma maculatum</i>	ST
	Mooneye	<i>Hiodon tergisus</i>	ST
	Mountain Brook Lamprey	<i>Ichthyomyzon greeleyi</i>	SSC
	Longear Sunfish	<i>Lepomis megalotis</i>	ST
	Redfin Shiner	<i>Lythrurus umbratilis</i>	SSC
	Silver Chub	<i>Macrhybopsis storeriana</i>	SE
	Black Redhorse	<i>Moxostoma duquesnei</i>	SSC
	Deepwater Sculpin	<i>Myoxocephalus thompsoni</i>	SE
	Pugnose Shiner	<i>Notropis anogenus</i>	SE
	Ironcolor Shiner	<i>Notropis chalybaeus</i>	SSC
	Gilt Darter	<i>Percina evides</i>	SE
	Longhead Darter	<i>Percina macrocephala</i>	ST
	Round Whitefish	<i>Prosopium cylindraceum</i>	SE
Invertebrates	Dwarf Wedgemussel	<i>Alasmidonta heterodon</i>	FE, SE
	Brook (mussel) Floater	<i>Alasmidonta varicosa</i>	ST
	Arogos Skipper	<i>Atrytone arogos arogos</i>	SE
	Henry's Elfin	<i>Callophrys henrici</i>	SSC
	Hessel's Hairstreak	<i>Callophrys hesseli</i>	SE
	Frosted Elfin	<i>Callophrys irus</i>	ST
	Herodias Underwing	<i>Catocala herodias gerhardi</i>	SSC
	Jair Underwing	<i>Catocala jair</i>	SSC
	Northeastern beach tiger beetle	<i>Cicindela dorsalis dorsalis</i>	ST
	Little Bluet	<i>Enallagma minisculum</i>	ST
	Scarlet Bluet	<i>Enallagma pictum</i>	ST
	Pine Barrens Bluet	<i>Enallagma recurvatum</i>	ST
	Mottled Duskywing	<i>Erynnis martialis</i>	SSC
	Persius Duskywing	<i>Erynnis persius</i>	SE
	Olympia Marble	<i>Euchloe olympia</i>	SSC
	Buffalo Pebble Snail	<i>Gillia altilis</i>	SSC
	Unnamed Dragonfly Species	<i>Gomphus spec. nov.</i>	SSC
	Barrens Buckmoth	<i>Hemileuca maia</i>	SSC
	Bog Buckmoth	<i>Hemileuca species 1</i>	SE
	A Noctuid Moth	<i>Heterocampa varia</i>	SSC

Table D.4

**State and Federal Threatened and Endangered Species
New York**

Category	Common Name	Species Name	Status
	Pink Mucket	<i>Lampsilis abrupta</i>	SE
	Wavy-rayed Lampmussel	<i>Lampsilis fasciola</i>	ST
	Green (mussel) Floater	<i>Lasmigona subviridis</i>	ST
	Pine Pinion Moth	<i>Lithophane lepida lepida</i>	SE
	Karner Blue	<i>Lycaeides melissa</i>	FE, SE
	Southern Sprite	<i>Nehalennia integricollis</i>	SSC
	American Burying Beetle	<i>Nicrophorus mericanus</i>	SE
	Chittenango Ovate Amber Snail	<i>Novisuccinea chittenangoensis</i>	FT, SE
	Extra Striped Snaketail	<i>Ophiogomphus anomalus</i>	SSC
	Pygmy Snaketail	<i>Ophiogomphus howei</i>	SSC
	Tawny Crescent	<i>Phyciodes batesii</i>	SSC
	Clubshell	<i>Pleurobema clava</i>	SE
	Checkered White	<i>Pontia protodice</i>	SSC
	Fat pocketbook	<i>Potamilus capax</i>	SE
	Common Sanddragon	<i>Progomphus obscurus</i>	SSC
	Appalachian Grizzled Skipper	<i>Pyrgus wyandot</i>	SE
	Tomah Mayfly	<i>Siphonisca aerodromia</i>	SE
	Regal Fritillary	<i>Speyeria idalia</i>	SE
	Gray Petaltail	<i>Tachopteryx thoreyi</i>	SSC
	Fringed Valvata	<i>Valvata lewisi</i>	SSC
	Mossy Valvata	<i>Valvata sincera</i>	SSC
	Rayed Bean	<i>Villosa fabalis</i>	SE

Source: United States Fish and Wildlife Service (January 2003).

New York Department of Environmental Conservation (Threatened & Endangered Species Listed January 2003).

Status Definitions: FE – Federally Endangered
 FT – Federally Threatened
 SE – State Endangered
 ST – State Threatened
 SSC – State Species of Concern

G.5

**Pennsylvania State and Federal
Threatened and Endangered Species**

Table D.5

**State and Federal Threatened and Endangered Species
Pennsylvania**

Category	Common Name	Species Name	Status
Mammals	Least shrew	<i>Cryptotis parva</i>	SE
	Small-Footed Myotis	<i>Myotis leibii</i>	ST
	Indiana Bat	<i>Myotis sodalis</i>	FE, SE
	Eastern Woodrat	<i>Neotoma magister</i>	ST
	Eastern Puma	<i>Puma concolor couguar</i>	FE
	Delmarva Fox Squirrel	<i>Sciurus niger cineris</i>	SE
	West Virginia Water Shrew	<i>Sorex palustris punctulatus</i>	ST
Birds	Great egret	<i>Ardea albus</i>	ST
	Short-eared Owl	<i>Asio flammeus</i>	SE
	Upland Sandpiper	<i>Batramia longicauda</i>	ST
	American bittern	<i>Botaurus lentiginosus</i>	ST
	Piping Plover	<i>Charadrius melodus</i>	FE
	Black Tern	<i>Chidonias niger</i>	SE
	Sedge Wren	<i>Cistothorus platensis</i>	ST
	Yellow-Bellied Flycatcher	<i>Empidonax flaviventris</i>	ST
	Peregrine Falcon	<i>Falco peregrinus</i>	SE
	Bald Eagle	<i>Haliaeetus leucocephalus</i>	FT, SE
	Least Bittern	<i>Ixobrychus exilis</i>	ST
	Loggerhead Shrike	<i>Lanius ludovicianus</i>	SE
	Yellow-crowned Night-heron	<i>Nyctanassa violaceus</i>	ST
Osprey	<i>Pandion haliaetus</i>	SE	
King Rail	<i>Rallus elegans</i>	SE	
Reptiles	Bog turtle	<i>Clemmys mühlenbergii</i>	FT, SE
	Kirtland's Snake	<i>Clonophis kirtlandii</i>	SE
	Rough Green Snake	<i>Opheodrys aestivus</i>	ST
	Red-Bellied Turtle	<i>Pseudemys rubriventris</i>	ST
	Eastern Massasauga	<i>Sistrurus catenatus catenatus</i>	SE
Amphibians	Green Salamander	<i>Aneides aeneus</i>	ST
	New Jersey Chorus Frog	<i>Pseudacris feriarum kalmi</i>	SE
	Eastern mud Salamander	<i>Pseudotriton montanus</i>	SE
	Coastal Plain Leopard Frog	<i>Rana utricularia</i>	SE
Fish	Shortnose sturgeon	<i>Acipenser brevirostrum</i>	SE
	Lake Sturgeon	<i>Acipenser fulvescens</i>	SE
	Atlantic sturgeon	<i>Acipenser oxyrinchus</i>	ST
	Longnose sucker	<i>Catostomus catostomus</i>	SE
	Gravel Chub	<i>Erimystax x-punctatus</i>	SE
	Bluebreast Darter	<i>Etheostoma camurum</i>	ST
	Spotted Darter	<i>Etheostoma maculatum</i>	SE
	Tippecanoe Darter	<i>Etheostoma tippecanoe</i>	SE
	Ohio Lamprey	<i>Ichthyomyzon bdellium</i>	ST
	Northern Brook Lamprey	<i>Ichthyomyzon fossor</i>	SE
	Mountain Brook Lamprey	<i>Ichthyomyzon greeleyi</i>	ST
	Burbot	<i>Lota lota</i>	ST
	Mountain Madtom	<i>Noturus eleutherus</i>	ST
	Northern Madtom	<i>Noturus stigmatosus</i>	ST
	Channel Darter	<i>Percina copelandi</i>	ST
	Gilt Darter	<i>Percina Eevides</i>	ST
	Longhead Darter	<i>Percina macrocephala</i>	SE
	Eastern Sand Darter	<i>Pseudotriton montanus montanus</i>	SE
Invertebrates	Dwarf Wedgemussel	<i>Alasmidonta heterodon</i>	FE
	Northern Riffleshell	<i>Epioblasma torulosa rangiana</i>	FE, SE
	Pearlymussel	<i>Hemistena lata</i>	FE

Table D.5

**State and Federal Threatened and Endangered Species
Pennsylvania**

Category	Common Name	Species Name	Status
	Pink Mucket	<i>Lampsilis abrupta</i>	FE
	Ring Pink	<i>Obovaria retusa</i>	FE
	Orangefoot Pimpleback	<i>Plethobasus cooperianus</i>	FE
	Clubshell	<i>Pleurobema clava</i>	FE
	Rough Pigtoe	<i>Pleurobema plenum</i>	FE
	Regal Fritillary	<i>Speyeria idalia</i>	SE

Source: United States Fish and Wildlife Service (January 2003).

Pennsylvania Department of Conservation and Natural Resources (Threatened & Endangered Species Listed January 2003).

Status Definitions: FE – Federally Endangered

FT – Federally Threatened

SE – State Endangered

ST – State Threatened