Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, State by State

Connecticut

Maine

Massachusetts

New Hampshire

New Jersey

New York

Pennsylvania

Rhode Island

Vermont

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Connecticut

	Most Important		
	Very Important		
	Important		
Taxa			Habitat
Mammal	Black Bear	Ursus americanus	Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones
	21 Bobcat	Felis rufus	Forested Inland Wetland, Shrub Inland Wetland
			Forested Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Eastern Pipistrelle	Pipistrellus subflavus	Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
			Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large
	Eastern Small-footed Bat	Myotis leibii	Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	Hairy-tailed Mole	Parascalops breweri	Forested Inland Wetland
			Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large
	Hoary Bat	Lasiurus cinereus	Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
			Formated bland Walland Oberts baland Walland Harbanana I that Walland October 1997 1997
1	ladiana Dat	NAVIATION AND AND IN	Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large
	Indiana Bat	Myotis sodalis	Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	Little Descrip Det	M. satis locality source	Forested Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Little Brown Bat Long-tailed Weasel	Myotis lucifugus Mustela frenata	Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines Large Rivers and their Riparian Zones
	Meadow Jumping Mouse	Zapus hudsonius	Large Rivers and their Riparian Zones
	Meadow Jumping Modse	Zapus nuusonius	Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large
	Mink	Mustela vison	Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams
	Muskrat	Ondatra zibethicus	Herbaceous Inland Wetland, Large Rivers and their Riparian Zones, Coastal Plain Ponds
	New England Cottontail	Sylvilagus transitionalis	Shrub Inland Wetland
	New England Collonial	Sylvilagus transitionalis	Forested Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Northern Long-eared Bat	Myotis septentrionalis	Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	- To an on a constant	,	Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland,
	Northern Water Shrew	Sorex palustris	Unrestricted, Free-flowing Streams, Cold Water Streams
		·	
			Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large
	Red Bat	Lasiurus borealis	Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	Short-tailed Weasel	Mustela erminea	Large Rivers and their Riparian Zones
			Forested Inland Wetland, Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large
	Silver-haired Bat	Lasionycteris noctivagans	Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	Southern Bog Lemming	Synaptomys cooperi	Forested Inland Wetland, Shrub Inland Wetland
<u> </u>	Woodland Jumping Mouse	Napaeozapus insignis	Sparsely Vegetated Inland Wetland, Unrestricted, Free-flowing Streams, Cold Water Streams
B: .	Woodland Vole	Microtus pinetorum	Herbaceous Inland Wetland
Bird	Alder Flycatcher	Empidonax alnorum	Shrub Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones
	74 American Bittern	Botaurus lentiginosus (Botaurus	Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland
	American Disale Deale	A	Forested Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones, Unrestricted, Free-flowing
	American Black Duck	Anas rubripes	Streams, Lakes and their Shorelines, Coastal Plain Ponds
	American Redstart	Setophaga ruticilla	Forested Inland Wetland, Large Rivers and their Riparian Zones Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	American Woodcock	Scolopax minor	Zones. Cold Water Streams
1	Bald Eagle	Haliaeetus leucocephalus (Halia	
1	Baltimore Oriole	Icterus galbula	Forested Inland Wetland
	Bank Swallow	Riparia riparia	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Barred Owl	Strix varia	Forested Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian Zones
	Belted Kingfisher	Ceryle alcyon	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines
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Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Connecticut

Taxa			Habitat
	Black Rail	Laterallus jamaicensis	Coastal Plain Ponds
	Black-and-white Warbler	Mniotilta varia	Large Rivers and their Riparian Zones
	Black-billed Cuckoo	Coccyzus erythropthalmus	Forested Inland Wetland
	Black-crowned Night-heron	Nycticorax nycticorax	Herbaceous Inland Wetland, Coastal Plain Ponds
	Black-throated Blue Warbler	Dendroica caerulescens	Forested Inland Wetland
	Black-throated Green Warbler	Dendroica virens	Forested Inland Wetland
	Blue-gray Gnatcatcher	Polioptila caerulea	Large Rivers and their Riparian Zones
	and gray characters		Herbaceous Inland Wetland, Large Rivers and their Riparian Zones, Lakes and their Shorelines, Coastal Plain Ponds,
	Blue-winged Teal	Anas discors	Unrestricted
	Blue-winged Warbler	Vermivora pinus	Free-flowing Streams
	Broad-winged Hawk	Buteo platypterus	Forested Inland Wetland
	Canada Warbler	Wilsonia canadensis	Forested Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones
	Canvasback	Aythya valisineria	Large Rivers and their Riparian Zones, Lakes and their Shorelines, Coastal Plain Ponds
	Cerulean Warbler	Dendroica cerulea	Forested Inland Wetland, Large Rivers and their Riparian Zones
	Chestnut-sided Warbler	Dendroica pensylvanica	Forested Inland Wetland
	Cliff Swallow	Petrochelidon pyrrhonota	Large Rivers and their Riparian Zones, Lakes and their Shorelines
	Common Loon	Gavia immer	Lakes and their Shorelines
	Common Merganser	Mergus merganser	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Common Moorhen	Gallinula chloropus	Herbaceous Inland Wetland
		Summana Simor Space	Forested Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Eastern Kingbird	Tyrannus tyrannus	Zones
	Eastern Screech-owl	Otus asio	Forested Inland Wetland, Large Rivers and their Riparian Zones
	Gray Catbird	Dumetella carolinensis	Shrub Inland Wetland, Herbaceous Inland Wetland
	Gray-cheeked Thrush	Catharus minimus	Forested Inland Wetland
	Great Blue Heron	Ardea herodias	Forested Inland Wetland, Sparsely Vegetated Inland Wetland
	Great Cormorant	Phalacrocorax carbo	Large Rivers and their Riparian Zones
	Great Egret	Ardea alba	Coastal Plain Ponds
	Greater Scaup	Aythya marila	Large Rivers and their Riparian Zones, Coastal Plain Ponds
	Green Heron	Butorides virescens	Forested Inland Wetland, Herbaceous Inland Wetland
	Hermit Thrush	Catharus guttatus	Forested Inland Wetland
		gamaras	
	Hooded Merganser	Lophodytes cucullatus	Forested Inland Wetland, Herbaceous Inland Wetland, Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Hooded Warbler	Wilsonia citrina	Large Rivers and their Riparian Zones
	King Rail	Rallus elegans	Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland
	Least Bittern	Ixobrychus exilis	Herbaceous Inland Wetland
	Least Flycatcher	Empidonax minimus	Forested Inland Wetland, Large Rivers and their Riparian Zones
	Lesser Scaup	Aythya affinis	Large Rivers and their Riparian Zones, Lakes and their Shorelines, Coastal Plain Ponds
	Little Blue Heron	Egretta caerulea	Coastal Plain Ponds
			Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Louisiana Waterthrush	Seiurus motacilla	Zones, Unrestricted, Free-flowing Streams, Cold Water Streams
	Marsh Wren	Cistothorus palustris	Herbaceous Inland Wetland
	Northern Flicker	Colaptes auratus	Forested Inland Wetland
	Northern Parula	Parula americana	Forested Inland Wetland
	Northern Rough-winged Swallow	Stelgidopteryx serripennis	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Northern Saw-whet Owl	Aegolius acadicus	Forested Inland Wetland, Herbaceous Inland Wetland
			Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Northern Waterthrush	Seiurus noveboracensis	Zones, Cold Water Streams
	Olive-sided Flycatcher	Contopus borealis	Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	Orchard Oriole	Icterus spurius	Large Rivers and their Riparian Zones
	Osprey	Pandion haliaetus	Large Rivers and their Riparian Zones, Lakes and their Shorelines
	Pied-billed Grebe	Podilymbus podiceps	Herbaceous Inland Wetland, Large Rivers and their Riparian Zones, Coastal Plain Ponds
	Purple Martin	Progne subis	Forested Inland Wetland
			•

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Taxa			Habitat
	Red-necked Grebe	Podiceps grisegena	Large Rivers and their Riparian Zones
	Red-shouldered Hawk	Buteo lineatus	Forested Inland Wetland
	Rose-breasted Grosbeak	Pheucticus Iudovicianus	Forested Inland Wetland
	Rough-legged Hawk	Buteo lagopus	Herbaceous Inland Wetland
	Sedge Wren	Cistothorus platensis (Cistothoru	Herbaceous Inland Wetland
	Semipalmated Sandpiper	Charadrius semipalmatus	Sparsely Vegetated Inland Wetland
	Snowy Egret	Egretta thula	Coastal Plain Ponds
	Sora	Porzana carolina	Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland
	Spotted Sandpiper	Actitis macularia	Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Veery	Catharus fuscescens	Forested Inland Wetland
	Virginia Rail	Rallus limicola	Herbaceous Inland Wetland
	Warbling Vireo	Vireo gilvus	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Willow Flycatcher	Empidonax traillii	Shrub Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones
	Winter Wren	Troglodytes troglodytes	Forested Inland Wetland
	Yellow-billed Cuckoo	Coccyzus americanus	Forested Inland Wetland
	Yellow-crowned Night-heron	Nyctanassa violacea (Nyctanassa	
	Yellow-throated Vireo	Vireo flavifrons	Forested Inland Wetland, Large Rivers and their Riparian Zones
	Tonon timodeou vinos	7.1.00 11.01.10	Forested Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones, Shrub Inland Wetland,
Rentile/Amphihian	Blue-spotted Salamander (complex)	Ambystoma laterale	Sparsely Vegetated Inland Wetland, Unrestricted, Free-flowing Streams
repuic// impilibian	Bide spotted Galamander (complex)	7 tribystoma laterale	Forested Inland Wetland, Herbaceous Inland Wetland, Large Rivers and their Riparian Zones, Shrub Inland Wetland,
10	Blue-spotted salamander (diploid)	Ambystoma laterale	Sparsely Vegetated Inland Wetland, Unrestricted, Free-flowing Streams
19	Bog Turtle	Glyptemys muhlenbergii	Herbaceous Inland Wetland
	Copperhead	Agkistrodon contortrix	Lakes and their Shorelines
	Соррегнеац	Agkistrodori contortrix	Coastal Plain Ponds, Forested Inland Wetland, Herbaceous Inland Wetland, Lakes and their Shorelines, Large Rivers and
	Eastern Box Turtle	Torranana aaralina (Torranana a	their Riparian Zones, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland
	Eastern Newt	Terrapene carolina (Terrapene c. Notophthalmus viridescens	Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland
	Eastern Newt	Notopritrialifius viridesceris	Coastal Plain Ponds, Cold Water Streams, Forested Inland Wetland, Herbaceous Inland Wetland, Lakes and their
			Shorelines, Large Rivers and their Riparian Zones, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Unrestricted,
	Dibbon Chake (Fastern Bibbonanaka)	Thomponhio couritus (Thomponh	
	Ribbon Snake (Eastern Ribbonsnake) Eastern Spadefoot	Thamnophis sauritus (Thamnoph	
	Eastern Spaderoot	Scaphiopus holbrookii	Forested Inland Wetland, Large Rivers and their Riparian Zones, Sparsely Vegetated Inland Wetland Coastal Plain Ponds, Forested Inland Wetland, Lakes and their Shorelines, Large Rivers and their Riparian Zones, Sparsely
	Foundation Total	D. fa faciliai (D. fa coa albaccaii fac	
	Fowler's Toad	Bufo fowleri (Bufo woodhousii fov	
	Gray Treefrog	Hyla versicolor	Sparsely Vegetated Inland Wetland
	Jefferson Salamander	Ambystoma jeffersonianum	Sparsely Vegetated Inland Wetland
	Marbled Salamander	Ambystoma opacum	Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland
	No the on Book College of the Co	D	Cold Water Streams, Herbaceous Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Unrestricted,
	Northern Dusky Salamander (Dusky Sa	Desmognatinus fuscus	Free-flowing Streams
	North are Cario a Colores and a	O minerali i i a namba miti a sa 100 da	Cold Water Streams, Herbaceous Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Unrestricted,
	Northern Spring Salamander	Gyrinophilus porphyriticus (Gyrino	
	Smooth Greensnake	Opheodrys vernalis	Lakes and their Shorelines, Shrub Inland Wetland
	Spotted Salamander	Ambystoma maculatum	Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland
	O THE LT THE	01	Forested Inland Wetland, Herbaceous Inland Wetland, Lakes and their Shorelines, Large Rivers and their Riparian Zones,
	Spotted Turtle	Clemmys guttata	Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Unrestricted, Free-flowing Streams
	Wood Frog	Rana sylvatica	Forested Inland Wetland, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland Forested Inland Wetland, Herbacous Island Wetland, Lakes and their Sharelines, Large Bivers and their Bingrice Zones.
	Wood Turtle	Glyptemys insculpta (previously o	Forested Inland Wetland, Herbaceous Inland Wetland, Lakes and their Shorelines, Large Rivers and their Riparian Zones, Shrub Inland Wetland, Sparsely Vegetated Inland Wetland, Unrestricted, Free-flowing Streams
Invertebrate	Trock Turtio	Agonum darlingtoni	Shrub Inland Wetland
56		Agonum mutatum	Shrub Inland Wetland
	American Rubyspot	Hetaerina americana	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams
	Annointed Sallow Moth	Pyreferra ceromatica	Forested Inland Wetland
		Atylotus ohioensis	Shrub inland Wetland
		Baetisca lacustris	Large Rivers and their Riparian Zones
		Dagage a lacacino	Easign Carrotte and area Capacitati Entition

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Taxa			Habitat
		Baetisca obesa	Large Rivers and their Riparian Zones
	Banded Bog Skimmer	Williamsonia lintneri	Shrub Inland Wetland
	- i	Bembidion carinula	Large Rivers and their Riparian Zones, Lakes and their Shorelines
		Bembidion lacunarium	Large Rivers and their Riparian Zones
		Bembidion pseudocautum	Herbaceous Inland Wetland
		Bembidion guadratulum	Shrub Inland Wetland
		Bembidion semicinctum	Forested Inland Wetland
		Bembidion simplex	Unrestricted, Free-flowing Streams, Cold Water Streams
	Blue Crab	Callinectes sapidus	Large Rivers and their Riparian Zones
	Bog Copper	Lycaena epixanthe	Shrub Inland Wetland
	Bog Tiger Moth (an arctiid moth)	Grammia speciosa	Shrub Inland Wetland
	13 31 11 (1 1 11 1 11)	Boreal Fossaria	Lakes and their Shorelines
		Brachinus cyanipennis	Forested Inland Wetland, Herbaceous Inland Wetland
		Brachinus fumans	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
		Brachinus medius	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
		Brachinus ovipennis	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines
	Brook Floater	Alasmidonta varicosa	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	D. GOK F. IOUKS	Carabus vinctus	Forested Inland Wetland
		Cicindela marginata	Large Rivers and their Riparian Zones
		Cinygmula subaegualis	Unrestricted, Free-flowing Streams, Cold Water Streams
	Clam Shrimp	Eulimnadia agassizii	Sparsely Vegetated Inland Wetland
	Coastal Pond Amphipod	Synurella chamberlaini	Forested Inland Wetland
	Cobra Clubtail	Gomphus vastus	Large Rivers and their Riparian Zones
	Crimson-ringed Whiteface	Leucorrhinia glacialis	Shrub Inland Wetland
	Dark-bellied Tiger Beetle	Cicindela tranquebarica	Large Rivers and their Riparian Zones, Lakes and their Shorelines
	Disc Gyro	Gyraulus circumstriatus	Lakes and their Shorelines
	Dwarf Wedge Mussel	Alasmidonta heterodon	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Eastern Pearlshell	Margaritifera margaritifera	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Eastern Pond Mussel	Ligumia nasuta	Large Rivers and their Riparian Zones. Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Eyed Brown	Satyrodes eurydice	Herbaceous Inland Wetland
	Fiddler Crabs	Uca spp.	Large Rivers and their Riparian Zones
	riddior Orabo	Goniops chrysocoma	Forested Inland Wetland
	Grass Shrimp	Hippolyte spp.	Large Rivers and their Riparian Zones
	Gray Comma	Polygonia progne	Forested Inland Wetland
	Hairy-necked Tiger Beetle	Cicindela hirticollis	Large Rivers and their Riparian Zones. Lakes and their Shorelines
	Harpoon Clubtail	Gomphus descriptus	Cold Water Streams
	Henry's Elfin	Callophrys henrici	Shrub Inland Wetland
	Hessel's Hairstreak	Mitoura hesseli	Forested Inland Wetland
		Hybomitra frosti	Shrub Inland Wetland
		Hybomitra longiglossa	Shrub Inland Wetland
		Hybomitra lurida	Shrub Inland Wetland
		Hybomitra trepida	Forested Inland Wetland
		Hybomitra typhus	Forested Inland Wetland
	Labrador Tea Tentiform Leafminer	31	Shrub Inland Wetland
	Lemmer's Noctuid Moth	Lithophane lemmeri	Forested Inland Wetland
		Loxandrus vitiosus	Forested Inland Wetland
	Lymnaeid Snail	Fossaria rustica	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines
		Merycomyia whitneyi	Shrub Inland Wetland, Herbaceous Inland Wetland
	Midland Clubtail	Gomphus fraternus	Large Rivers and their Riparian Zones

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Taxa			Habitat
	Mustached Clubtail	Gomphus adelphus	Cold Water Streams
	Mystic Valley Amphipod	Crangonyx aberrans	Forested Inland Wetland
		Nebria lacustris lacustris	Large Rivers and their Riparian Zones
	Newman's Brocade	Meropleon ambifusca	Herbaceous Inland Wetland
		Omophron tesselatum	Lakes and their Shorelines
	Piedmont Groundwater Amphipod	Stygobromus tenuis tenuis (Stygo	
	Pink Streak	Faronta rubripennis	Forested Inland Wetland
	Pitcher Plant Borer Moth	Papaipema appassionata	Shrub inland Wetland
	Pitcher Plant Moth	Exyra rolandiana	Shrub Inland Wetland
	Puritan Tiger Beetle	Cicindela puritana	Large Rivers and their Riparian Zones
	Rapids Clubtail	Gomphus quadricolor	Cold Water Streams
	Riverine Clubtail	Stylurus amnicola	Large Rivers and their Riparian Zones
	Sand Shrimp	Crangon septemspinosa	Large Rivers and their Riparian Zones
	Cand Chillip	Sargus fasciatus	Shrub Inland Wetland, Herbaceous Inland Wetland
	Scarlet Bluet	Enallagma pictum	Lakes and their Shorelines
	Ocaliet Bluet	Lilaliagina pictum	Shrub Inland Wetland, Herbaceous Inland Wetland, Sparsely Vegetated Inland Wetland, Large Rivers and their Riparian
	Sedge Skipper	Euphyes dion	Zones
	Shore Shrimp	Palaemonetes spp.	Large Rivers and their Riparian Zones
	Skillet Clubtail	Gomphus ventricosus	Large Rivers and their Riparian Zones
	Ski-tailed Emerald	Somatochlora elongata	Shrub Inland Wetland, Cold Water Streams
	Slender Clearwing	Hemaris gracilis	Shrub Inland Wetland
	Slender Walker	Pomatiopsis lapidaria	Large Rivers and their Riparian Zones
	Sparkling Jewelwing	Calopteryx dimidiata	Unrestricted, Free-flowing Streams
	eparking constrains	Tabanus fulvicallus	Shrub Inland Wetland
	Tidewater Mucket	Leptodea ochracea	Large Rivers and their Riparian Zones, Lakes and their Shorelines
	Tiger Spiketail	Cordulegaster erronea	Cold Water Streams
	Turret Snail	Valvata tricarinata	Lakes and their Shorelines
	Two-spotted Skipper	Euphyes bimacula (Euphys bima	
	Virginia River Snail	Elimia virginica	Large Rivers and their Riparian Zones
	Walker's Tusked Sprawler	Anthopotamus verticis	Large Rivers and their Riparian Zones
	Woodland Pondsnail	Stagnicola catascopium	Large Rivers and their Riparian Zones
	Yellow Bog Anarta	Anarta luteola	Shrub Inland Wetland
	Yellow Lampmussel	Lampsilis cariosa	Large Rivers and their Riparian Zones
Fish	Alewife	Alosa pseudoharengus	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Coastal Plain Ponds
	American Brook Lamprey	·	Unrestricted, Free-flowing Streams, Cold Water Streams
39	Апіенсан втоок цапіргеу	Lampetra appendix	
	American Fol	Anguilla restrata	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines. Coastal Plain Ponds
	American Eel	Anguilla rostrata	Large Rivers and their Riparian Zones
	American Shad	Alosa sapidissima	
	Atlantic Salmon Atlantic Sturgeon	Salmo salar	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
		Acipenser oxyrinchus (Acipenser	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams Large Rivers and their Riparian Zones
	Atlantic Tomcod (Tomcod)	Microgadus tomcod	ů i
	Banded Sunfish	Enneacanthus obesus	Lakes and their Shorelines, Coastal Plain Ponds
	Diagle Crannia	Demovie nigramaculatus	Large Divers and their Dispring Zones, Unrestricted, Erre Bauring Otreams, Lakes and their Charalines, Coastal Disir Dands
	Black Crappie	Pomoxis nigromaculatus	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Blacknose Dace	Rhinichthys atratulus	Unrestricted, Free-flowing Streams, Cold Water Streams
	Blueback Herring	Alosa aestivalis	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Bridle Shiner	Notropis bifrenatus	Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Brook Trout (wild)	Salvelinus fontinalis	Unrestricted, Free-flowing Streams, Cold Water Streams, Unrestricted, Free-flowing Streams, Cold Water Streams
	Burbot	Lota lota	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams
	0		
	Chain Pickerel	Esox niger	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Common Shiner	Luxilus cornutus (Luxilus comutu	Unrestricted, Free-flowing Streams, Cold Water Streams

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Taxa			Habitat
	Creek Chubsucker		Unrestricted, Free-flowing Streams, Lakes and their Shorelines
	Cutlips Minnow	Exoglossum maxillingua (Exoglos	Unrestricted, Free-flowing Streams, Cold Water Streams
	Fallfish	Semotilus corporalis	Unrestricted, Free-flowing Streams, Cold Water Streams
			Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their
	Fourspine Stickleback	Apeltes quadracus	Shorelines, Coastal Plain Ponds
	Golden Shiner	Notemigonus crysoleucas	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Hickory Shad	Alosa mediocris	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Hogchoker	Trinectes maculatus	Large Rivers and their Riparian Zones
	Largemouth Bass	Micropterus salmoides	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Longnose Dace	Rhinichthys cataractae	Unrestricted, Free-flowing Streams, Cold Water Streams
	Longnose Sucker	Catostomus catostomus	Cold Water Streams
	Menhaden	Brevoortia tyrannus	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Pumpkinseed	Lepomis gibbosus	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Rainbow Smelt	Osmerus mordax	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Redbreast Sunfish Redfin Pickerel		Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
			Unrestricted, Free-flowing Streams Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Sea Lamprey Shortnose Sturgeon	Petromyzon marinus	Large Rivers and their Riparian Zones, Offestricted, Free-flowing Streams Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Slimy Sculpin	Cottus cognatus	Cold Water Streams
	Sililiy Sculpili	Collus Cognatus	Cold Water Streams
	Smallmouth Bass	Micropterus dolomieu	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Striped Bass		Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams
	Swamp Darter	Etheostoma fusiforme	Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds
	White Sucker	Catostomus commersoni	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Cold Water Streams, Lakes and their Shorelines, Coastal Plain Ponds
	Yellow Perch	Perca flavescens	Large Rivers and their Riparian Zones, Unrestricted, Free-flowing Streams, Lakes and their Shorelines, Coastal Plain Ponds

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Maine

Taxa	SGCN Species		Habitat	
Bird	American Bittern	Botaurus lentiginosus (Botaurus lentiginosos)	WM, WS	
	American Black Duck	Anas rubripes	WL, WF, WM	
	American Coot	Fulica americana	WM	
	American Woodcock	Scolopax minor	WS	
	Bald Eagle	Haliaeetus leucocephalus	WL, WR	
	Barn Swallow	Hirundo rustica	WL, WM	
	Barrow's Goldeneye	Bucephala islandica	WR	
	Black Tern	Chlidonias niger	WL, WM	
	Black-crowned Night Heron	Nycticorax nycticorax	WM	
	Blue-winged Warbler	Vermivora pinus	WS	
	Bobolink	Dolichonyx oryzivorus	WM	
	Bonaparte's Gull (breeding)	Larus philadelphia	WL	
	Canada Warbler	Wilsonia canadensis	WF	
	Common Loon (breeding)	Gavia immer	WL	
	Common Moorhen	Gallinula chloropus	WM	
	Common Tern	Sterna hirundo	WL	
	Golden Eagle	Aquila chrysaetos	WR	
	Great Blue Heron	Ardea herodias	WL, WM	
	Greater Scaup (non-breeding)	Aythya marila	WL, WR	
	Least Bittern	Ixobrychus exilis	WM	
	Louisiana Waterthrush	Seiurus motacilla	WR	
	Marsh Wren	Cistothorus palustris	WM	
	Nelson's Sharp-tailed Sparrow	Ammodramus nelsoni	WM	
	Olive-sided Flycatcher	Contopus borealis	WS, WP	
	Pied-billed Grebe	Podilymbus podiceps	WL, WM	
	Purple Martin	Progne subis	WL, WM	
	Ruddy Duck	Oxyura jamaicensis	WL	
	Rusty Blackbird	Euphagus carolinus	WF, WS, WP	
	Sandhill Crane	Grus canadensis	WM	
	Sedge Wren	Cistothorus platensis (Cistothorus plantensis)	WM	
	Short-eared Owl	Asio flammeus	WM	
	Willow Flycatcher	Empidonax traillii	WS	
	Yellow Rail	Coturnicops noveboracensis	WM	
	Yellow-throated Vireo	Vireo flavifrons	WF, WR	34
Fish (Inland, Marine)	American Eel	Anguilla rostrata	WL, WR	
Fish (Marine, Diadromous)	American Shad	Alosa sapidissima	WR	

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Maine

Taxa	SGCN Species		Habitat	
Fish (Inland)	Arctic Charr	Salvelinus alpinus oquassa	WL	
Fish (Marine, Diadromous)	Atlantic Salmon	Salmo salar	WR	
Fish (Marine, Diadromous)	Atlantic Sturgeon	Acipenser oxyrinchus (Acipenser oxyrhynchus)	WR	
Fish (Inland)	Brook Trout	Salvelinus fontinalis	WR, WL	
Fish (Inland)	Burbot (Cusk)	Lota lota	WL, WR	
Fish (Inland)	Lake Trout (Togue)	Salvelinus namaycush	WL	
Fish (Inland)	Lake Whitefish	Coregonus clupeaformis (Coregonus clupeaforms)	WL, WR	
Fish (Inland)	Landlocked Salmon	Salmo salar	WL, WR	
Fish (Inland)	Longnose Sucker	Catostomus catostomus	WL, WR	
Fish (Inland, Marine)	Rainbow Smelt	Osmerus mordax	WL, WR	
Fish (Inland)	Redfin Pickerel	Esox americanus (Esox americanus americanus)	WR	
Fish (Inland)	Round Whitefish	Prosopium cylindraceum (Prosopium cylindraceus)	WL, WR	
Fish (Marine, Diadromous)	Shortnose Sturgeon	Acipenser brevirostrum (Acipencer brevirostrum)	WR	
Fish (Marine, Diadromous)	Striped Bass	Morone saxatilis (Morone saxitalis)	WR	
Fish (Inland)	Swamp Darter	Etheostoma fusiforme	WL	17
Herpetofauna, Amphibian	Blue-spotted Salamander (complex)	Ambystoma laterale x jeffersonianum	WF, WS	1
Herpetofauna, Reptile	Blanding's Turtle	Emydoidea blandingii (Emys blandingii)	WL, WM, WF, WS, WR	
	Eastern Box Turtle	Terrapene carolina (Terrapene c. carolina)	WM, WF, WR	
	Spotted Turtle	Clemmys guttata	WL, WM, WF, WS, WR	
	Wood Turtle	Glyptemys insculpta (previously called Clemmys insculpta)	WF, WR, WS	4
Invertebrate, Caddisflies	A Caddisfly	Hydroptila tomah	WM, WR	
Invertebrate, Mayflies	A Mayfly	Siphlonurus demaryi	WL	
Invertebrate, Mayflies	A Mayfly	Siphlonurus securifer	WL	
Invertebrate, Mayflies	A Mayfly	Baetisca rubescens	WR	
Invertebrate, Mayflies	A Mayfly	Nixe horrida	WR	
Invertebrate, Mayflies	A Mayfly	Nixe rusticalis	WR	
Invertebrate, Mayflies	A Mayfly	Plauditus veteris	WR	
Invertebrate, Mayflies	A Mayfly	Procloeon mendax	WR	
Invertebrate, Mayflies	A Mayfly	Procloeon ozburni	WR	
Invertebrate, Mayflies	A Mayfly	Procloeon simplex	WR	
Invertebrate, Stoneflies	A Stonefly	Neoperla mainensis	WR	
Invertebrate, Damselflies & Dragonflies	Arrow Clubtail	Stylurus spiniceps	WR	
Invertebrate, Damselflies & Dragonflies	Arrowhead Spiketail	Cordulegaster obliqua	WR	
Invertebrate, Damselflies & Dragonflies	Big Bluet	Enallagma durum	WL, WR	
Invertebrate, Damselflies & Dragonflies	Boreal Snaketail	Ophiogomphus colubrinus	WR	
Invertebrate, Damselflies & Dragonflies	Canada Whiteface	Leucorrhinia patricia	WP	

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Maine

Таха	SGCN Species		Habitat	
Invertebrate, Damselflies & Dragonflies	Citrine Forktail	Ischnura hastata	WL, WM	
Invertebrate, Butterflies	Clayton's Copper	Lycaena dorcas claytoni	WS, WP	
Invertebrate, Damselflies & Dragonflies	Cobra Clubtail	Gomphus vastus	WR	
Invertebrate, Butterflies	Crowberry Blue	Plebejus idas empetri	WP	
Invertebrate, Damselflies & Dragonflies	Dusky Dancer	Argia translata	WR	
Invertebrate, Butterflies	Frigga Fritillary	Boloria frigga	WP	
Invertebrate, Moths	Graceful Clearwing	Hemaris gracilis	WP	
Invertebrate, Butterflies	Hessel's Hairstreak	Callophrys hesseli	WF, WP	
Invertebrate, Moths	Precious Underwing	Catocala pretiosa pretiosa (Catocala p. pretiosa)	WF	
Invertebrate, Damselflies & Dragonflies	Pygmy Snaketail	Ophiogomphus howei	WR	
Invertebrate, Damselflies & Dragonflies	Quebec Emerald	Somatochlora brevicincta	WP	
Invertebrate, Damselflies & Dragonflies	Rambur's Forktail	Ischnura ramburii	WL, WM	
Invertebrate, Damselflies & Dragonflies	Rapids Clubtail	Gomphus quadricolor	WR	
Invertebrate, Damselflies & Dragonflies	Ringed Boghaunter	Williamsonia lintneri	WF, WS	
Invertebrate, Mayflies	Roaring Brook Mayfly	Epeorus frisoni	WR	
Invertebrate, Damselflies & Dragonflies	Scarlet Blue	Enallagma pictum	WL	
Invertebrate, Damselflies & Dragonflies	Sedge Darner	Aeshna juncea	WM, WP	
Invertebrate, Damselflies & Dragonflies	Southern Pygmy Clubtail	Lanthus vernalis	WR	
Invertebrate, Damselflies & Dragonflies	Spatterdock Darner	Rhionaeschna mutata	WL, WM	
Invertebrate, Damselflies & Dragonflies	Swamp Darner	Epiaeschna heros	WF, WS	
Invertebrate, Mayflies	Tomah Mayfly	Siphlonisca aerodromia	WM, WR	
Invertebrate, Damselflies & Dragonflies	Tule Blue	Enallagma carunculatum	WL, WR	38
Invertebrate, Snails	A Spire Snail	Amnicola decisus	WL, WR	
	Bigmouth Pondsnail	Stagnicola mighelsi	WL, WM, WP	
	Deep-throat Vertigo	Vertigo nylanderi	WF, WS, WP	
	Great Lakes Physa	Physella magnalacustris	WL	
	Mystery Vertigo	Vertigo paradoxa	WF	
	Pleistocene Catinella	Catinella exile	WF, WP	
	Six-whorl Vertigo	Vertigo morsei	WP	7
Invertebrate, Freshwater Mussels	Brook Floater	Alasmidonta varicosa	WR	
	Tidewater Mucket	Leptodea ochracea	WL, WR	
	Yellow Lampmussel	Lampsilis cariosa	WL, WR	3
				104

American Brook Lamprey (Lampetra appendix) Shortnose Sturgeon (Acipenser brevirostrum) Altaritic Sturgeon (Acipenser brevirostrum) Altaritic Sturgeon (Acipenser oxyrinchus (Acipenser oxyritynchus)) Lake Chub (Couessis purhebus) Eastern Silvery Minnow (Hybogoratius regius) Bridle Shiner (Moropis birnatus) Northern Retbelly Dace (Phoximse eos) Longnose Sucher (Catsorius ecoscisomus) Burbot (Lota tea) Unique Silver (Acipense purhebus) Burbot (Lota tea) Timesepine Silvicheback (Gasterosteus aculeatus) Blueback Herming (Arica asstraiis) Alewire (Acipenserius) Anerican Shiad (Alosa sapoidissima) Alewire (Acipenserius) Anerican Shiad (Alosa sapoidissima) American Shiad (Alosa sapoidissima) American Shiad (Alosa sapoidissima) Silmy Sculpin (Cottus corpense) Banded Sunfish (Emmeanthus obesus) Creek Chubsucker (Enimyzon oblorigus) Banded Sunfish (Emmeanthus obesus) Creek Chubsucker (Enimyzon oblorigus) Samp Darter (Etheoastoma olinstadi) Common Shiner (Lubilus comutus (Lubilus comutus)) Sea Lamprey (Pertomyzon marinus) Blacknose Dace (Rhinichthys atrautus) Blacknose Dace (Rhinichthys atrautus) Blacknose Dace (Rhinichthys atrautus) Longnose Dace (Rhinichthys atrautus) Alamic Salmon (Salmon salm) Brook Trout (Salvelinus fontrinalis) Creek Chub (Samoidis acronoculatus) Fallish (Samoidis corporalis) Arabitic Salmon (Salma piloris) Jefferson Salamander (Ambystoma jeffersonianum) Blue-Spotted Salamander (Ambystoma jeffersonianum) Blue-Spotted Salamander (Ambystoma jeffersonianum) Blue-Spotted Salamander (Ambystoma jeffersonianum) Sping Salamander (Ambystoma jeffersonianum) Bestern Spadedoti (Scaphipus hotronoci) Sopted Salamander (Ambystoma jeffersonianum) Bestern Spadedoti (Scaphipus hotronoci) Sopted Salamander (Hemidactylium acutatum) Eastern Spadedoti (Scaphipus hotronoci) Segmented vom New Erigland Medicinal Leech (Hoprobalela sestertia) Sagmented vom New Erigland Medicinal Leech (Hoprobalela sestertia) Faset Freshwater nusses Sincer France Spanjer (Phypulopasis Lustria) Brook Trunte (Septemper) Vertical Cammanse Spanjer	Total	Таха		Common Name (Latin Name)
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Bridle Shiner (Notropis biferentus)				Lake Chub (Couesius plumbeus)
Bridle Shiner (Notropis biferentus)				Eastern Silvery Minnow (Hybognathus regius)
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Crustaceans Appalachian Brook Crayfish (Cambarus bartonii (Camburus bartonii))				
	7			
Northern Spring Amphipod (Gammarus pseudolimnaeus)			Crustaceans	
				Northern Spring Amphipod (Gammarus pseudolimnaeus)

Γotal	Taxa		Common Name (Latin Name)
			Taconic Cave Amphipod (Stygobromus borealis)
			Piedmont Groundwater Amphipod (Stygobromus tenuis tenuis (Stygobromus tenuis))
5			Coastal Swamp Amphipod (Synurella chamberlaini)
		Dragonflies	Spatterdock Darner (Aeshna mutata (Aeshna mutate))
		3	Subarctic Darner (Aeshna subarctica)
			Comet Darner (Anax longipes)
			Ocellated Darner (Boyeria grafiana)
			Spine-Crowned Clubtail (Gomphus abbreviatus)
			Harpoon Clubtail (Gomphus descriptus)
			Midland Clubtail (Gomphus fraternus)
			Rapids Clubtail (Gomphus quadricolor)
			Cobra Clubtail (Gomphus vastus)
			Skillet Clubtail (Gomphus ventricosus)
			Umber Shadowdragon (<i>Neurocordulia obsoleta</i>)
			Stygian Shadowdragon (<i>Neurocordulia yamaskanensis</i>)
			Brook Snaketail (Ophiogomphus aspersus)
			Riffle Snaketail (Ophiogomphus carolus)
	Invertebrates		Ski-Tailed Emerald (Somatochlora elongata)
	mvortobratoo		Forcipate Emerald (Somatochlora forcipata)
			Coppery Emerald (Somatochlora georgiana)
			Incurvate Emerald (Somatochlora incurvata)
			Kennedy's Emerald (Somatochlora kennedyi (Somatochlora kennedyis))
			Mocha Emerald (<i>Somatochlora linearis</i>) Riverine Clubtail (<i>Stylurus amnicola</i>)
			` · ·
			Zebra Clubtail (Stylurus scudderi)
			Arrow Clubtail (Stylurus spiniceps)
25			Ebony Boghaunter (<i>Williamsonia fletcheri</i>) Ringed Boghaunter (<i>Williamsonia lintneri</i>)
25		D is:	
		Damselflies	Tule Bluet (Enallagma carunculatum)
			Attenuated Bluet (Enallagma daeckii)
			New England Bluet (Enallagma laterale)
			Scarlet Bluet (Enallagma pictum)
0			Pine Barrens Bluet (Enallagma recurvatum)
6		D 41	Little Bluet (Enallagma minusculum)
		Beetles	Twelve-Spotted Tiger Beetle (Cicindela duodecimguttata)
			Cobblestone Tiger Beetle (Cicindela marginipennis)
			Puritan Tiger Beetle (Cicindela puritana)
4		D (((i))))	Sylvan Hygrotus Diving Beetle (Hygrotus sylvanus)
		Butterflies and Moths	Drunk Apamea Moth (Apamea inebriata)
			Coastal Plain Apamea Moth (<i>Apamea mixta</i>)
			Straight Lined Mallow Moth (Bagisara rectifascia)
			Hessel's Hairstreak (Callophrys hesseli)
			Bog Elfin (Callophrys lanoraieensis)
			Precious Underwing Moth (Catocala pretiosa pretiosa (Catocala p. pretiosa))
			Chain Dot Geometer (Cingilia catenaria)
			Dion Skipper (Euphyes dion)
			Slender Clearwing Sphinx Moth (Hemaris gracilis)
			Pale Green Pinion Moth (<i>Lithophane viridipallens</i>)
			Coastal Swamp Metarranthis (Metarranthis pilosaria)
			Northern Brocade Moth (Neoligia semicana)
			Pitcher Plant Borer (<i>Papaipema appassionata</i>)
			Chain Fern Borer (<i>Papaipema stenocelis</i>)
			Water-Willow Stem Borer (Papaipema sulphurata)
			Eastern Veined White (<i>Pieris oleracea</i>)
4.0]		Spartina Borer (Spartiniphaga inops) Ture atriped Cord Cross Math (Magraphile hivittate)
18			Two-striped Cord Grass Moth (Macrochilo bivittata)
			Common Loon (Gavia immer)
			Pied-Billed Grebe (Podilymbus podiceps)
			American Bittern (Botaurus lentiginosus (Botaurus lentiginosos))
			Least Bittern (Ixobrychus exilis)
			Bald Eagle (Haliaeetus leucocephalus (Haliaeetus leucophalus))
			Northern Harrier (Circus cyaneus)

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Massachusetts

l Taxa	Common Name (Latin Name)
	King Rail (Rallus elegans)
	Common Moorhen (Gallinula chloropus)
	Sedge Wren (Cistothorus platensis (Cistothorus plantensis))
Birds	Northern Parula (Parula americana)
	Henslow's Sparrow (<i>Ammodramus henslowii</i>) American Black Duck (<i>Anas rubripes</i>)
	Broad-Winged Hawk (Buteo platypterus)
	Green Heron (Butorides virescens)
	Sora (Porzana carolina)
	American Woodcock (Scolopax minor)
	Louisiana Waterthrush (Seiurus motacilla)
	Canada Warbler (Wilsonia canadensis)
19	White-throated Sparrow (Zonotrichia albicollis)
	Water Shrew (Sorex palustris)
Managarata	Indiana Myotis (Historic in MA) (Myotis sodalis)
Mammals	Eastern Small-footed Bat (Myotis leibii)
4	Southern Bog Lemming (Synaptomys cooperi)

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, New Hampshire

		Habitat Key			
		Watershed Groupings	Medium and Small-Scale Habitats		
		Connecticut River Mainstem Watersheds	20. Floodplain Forests		
		2. Southern Upland Watersheds	21. Marsh and Shrub Wetlands		
		Northern Upland Watersheds	22. Peatlands		
		4. Montane Watersheds			
		5. Coastal Transitional Watersheds			
		6. Non-Tidal Coastal Watersheds			
		7. Tidal Coastal Watersheds			
				State	
	Taxa	Common Name	(Latin Name)	Rank	Habitat
nvertebrates	Freshwater molluscs	Brook floater	Alasmidonta varicosa	E, RC	2,5,6,7
	3	Dwarf wedgemussel	Alasmidonta heterodon	E, FE	1,2,3
		Eastern pondmussel	Ligumia nasuta	RC	1,2,6,7
	Insects	Cobblestone tiger beetle	Cicindela marginipennis	Т	1
	2	Ringed boghaunter	Williamsonia lintneri	E	21,22
/ertebrates	Fish	Alewife	Alosa pseudoharengus		6,7
	24		Lampetra appendix	RC	6,7
	1	American eel	Anguilla rostrata		1,3,5,6,7
		American shad	Alosa sapidissima		1,6,7
		Atlantic salmon	Salmo salar		1,2,3,4,5,6,7
		Atlantic sturgeon	Acipenser oxyrinchus (Acipenser oxyrhynchus)	RC	6,7
		Banded sunfish	Enneacanthus obesus	RC	2,5,6,7
		Blueback herrring	Pomolobus aestivalis	- 10	1,6,7
		Bridle shiner	Notropis bifrenatus	RC	5,6,7
		Burbot	Lota lota	110	1,2,3,4,5,6,7
		Eastern brook trout	Salvelinus fontinalis		1,2,3,4,5,6,7
		Finescale dace	Phoxinus neogaeus		3
		Lake trout	Salvelinus namaycush		2,3,5
		Lake whitefish	Coregonus clupeaformis (Coregonus clupeaforms)		3,5
		Northern redbelly dace	Phoxinus eos		2,3
		Rainbow smelt	Osmerus mordax		2,3,4,5,6,7
	+	Redfin pickerel	Esox americanus (Esox americanus americanus)		6,7
	+	Round whitefish	Prosopium cylindraceum (Prosopium cylindraceus)	RC	2,3,5
	1	Sea lamprey	Petromyzon marinus	1.0	1,5,6,7
	1	Shortnose sturgeon	Acipenser brevirostrum (Acipencer brevirostrum)	E, FE	6,7
	-	Slimy sculpin	Cottus cognatus	_,	1,2,3,4,5,6
	-	Sunapee trout	Salvelinus aureolus	F	2,5
	1	Swamp darter	Etheostoma fusiforme	-	5,6,7
	-	Tessellated darter	Etheostoma olmstedi		1,2,3,5,6
	Amphibians	Blue-spotted salamander	Ambystoma laterale	RC	21,26
		Fowler's toad	Bufo fowleri (Bufo woodhousii fowleri) formerly Bufo woodhousii fowleri	SC	21.23
		Jefferson salamander	Ambystoma jeffersonianum		20,21,26
	†	Marbled salamander	Ambystoma opacum	F	26
	1	Mink frog	Rana septentrionalis	_	3,4,20,21,22
	1	Northern leopard frog	Rana pipiens	SC, RC	
	Reptiles	Black racer	Coluber constrictor constrictor	00,110	8,12,14,15,23,24
	repules		Emydoidea blandingii (Emys blandingii)	SC BC	5,6,7,8,12,14,20,21,22,26
	0	Blanding's turtle Ribbon snake		RC	8,11,12,20,21,22,26
		Spotted turtle	Thamnophis sauritus (Thamnophis sauritus sauritus)	_	2,5,6,7,8,11,12,20,21,22,26
		'	Clemmys guttata	SC, RC	
		Smooth green snake	Opheodrys vernalis	SC	8,11,12,14,15,21,23

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, New Hampshire

			State	
Taxa	Common Name	(Latin Name)	Rank	Habitat
	Wood turtle	Glyptemys insculpta (previously called Clemmys insculpta)	SC, RC	1,2,3,4,5,6,7,8,10,11,12,14,15,2
Birds	American bittern	Botaurus lentiginosus (Botaurus lentiginosos)	RC	14,15,21
	23 American black duck	Anas rubripes		21,15
	American woodcock	Scolopax minor		8,11,12,14,15,20,21
	Bald eagle	Haliaeetus leucocephalus (Haliaeetus leucophalus)	E, FT	1,2,3,5,6,7,8,10,11,12
	Canada warbler	Wilsonia canadensis	RC	8,11,12,20
	Cerulean warbler	Dendroica cerulea	RC	8,12,20
	Common loon	Gavia immer	Т	1,2,3,5,6,7
	Cooper's hawk	Accipiter cooperii	Т	8,10,11,12,20
	Common moorhen	Gallinula chloropus		21
	Eastern towhee	Pipilo erythrophthalmus (Pipilo erythrophthalamus)		8,12,15,22,23
	Golden-winged warbler	Vermivora chrysoptera	SC, RC	15,21
	Great blue heron	Ardea herodias		21,25
	Least bittern	Ixobrychus exilis	SC	21
	Northern harrier	Circus cyaneus	E, RC	14,15,21,25
	Osprey	Pandion haliaetus	T	1,2,3,5,6,7,21
	Palm warbler	Dendroica palmarum		10,22
	Pied-billed grebe	Podilymbus podiceps	E, RC	21
	Red shouldered hawk	Buteo lineatus	SC	12,20,21
	Rusty blackbird	Euphagus carolinus	SC	10,21,22
	Sedge wren	Cistothorus platensis (Cistothorus plantensis)	E, RC	21
	Spruce grouse	Falcipennis canadensis		9,10,22
	Veery	Catharus fuscescens		8,11,12,20
	Wood thrush	Hylocichla mustelina		8,11,12,20
Mammals	Eastern red bat	Lasiurus borealis		8,11,12,20,21
	5 New England cottontail	Sylvilagus transitionalis	SC, RC	8,12,15,21,23
	Northern bog lemming	Synaptomys borealis sphagnicola (Synaptomys borealis)	SC, RC	10,22
	Northern myotis (long-eared bat)	Myotis septentrionalis		8,11,12,16
	Silver-haired bat	Lasionycteris noctivagans	SC, RC	8,11,12,20,21
Total		69		

All NJ SG	CN species	Hab	oitat K	(ey:																
	•				tal La	ndsca	аре		Piec	mont Lands	cape				Skylar	nds Lar	ndscape)		
							y (CM)		Nort	hern Piedmor	nt Plai	ns (NF	P)		Unner	Delawa	re Rive	r Vallev	and Kittatinny Ridge (UD)
					ea (A		, (0)		_	tan Bay and N									lley) (KV)	
							larbor (יום:	_	tral Piedmont			Oodst				lands (N		iicy) (ivv)	
								DL)	_										D: 1/ II (DM)	
					tic Co		(NA)		Sou	thern Piedmoi	nt Pla	ıns (SI	رد)						River Valleys (DM)	
		The	Atlan	itic O	cean ((AO)									Centra	l Highla	inds (Cl	1)		
										elands Lands					Urban	Highlar	nds (UH)		
					Land		е			thern Pineland					Southe	ern High	nlands (S	SH)		
					er (CR					tern Pineland										1
					Water					ica River Wat)							
							ed (TR))	Nort	hern Pineland	s (Mi	رر								-
					Shore ninsula															
		Cap	e ivia	y Per	IIIISUIZ	(CIVI)				Hal	hitat I s	andsca	ne						-
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							Atla	antic C	Coastal	Delaware	Bav		ains	Pinela	ands		Skyland	s		
			+	+	+	1					_			-			1 1		Freshwater aquatic	
Taxa	Common Name (Latin Name)	EW	/ FW	F	G	В	Z C	ا ۾ا ۾	2 کا کے	S R R R		유	SP SP	NP NP	취	9 >	Į S Į	등	(including wetland)?	l
Mammals	Indiana bat (Myotis sodalis)					i –	F		<u> </u>			_	J (0)	V /					yes	
16	Bobcat (Lynx rufus)					l													yes	
	Eastern red bat (Lasiurus borealis)				1	Ī	1 '	, ,		F									yes	
	Eastern smallfooted myotis (Myotis leibii)																		yes	
	Hoary bat (Lasiurus cinereus)																		yes	İ
	Long-tailed (Rock) shrew (Sorex dispar)																		yes	į .
	Marsh rice rat (Oryzomys palustris)																		yes	
	River otter (Lutra canadensis)																		yes	į .
	Silver-haired bat (Lasionycteris noctivgans)		_	1	1		-												yes	
	Southern bog lemming (Synaptomys cooperi) Allegheny woodrat (Neotoma floridana magister)		1			1	1	1 1	1 1					1 1					yes no	
	Blue whale (Balaneoptera musculus)		1			1				+ + + +						1 1	1 1	1 1	no	ł
	Fin whale (Balaneoptera physalus)		1	1	1	1													no	i
	Humpback whale (Megaptera novaeangliae)		1	1															no	
	North Atlantic Right whale (<i>Balaena glacialis</i>)		1	1		t													no	
	Sei whale (Balaneoptera borealis)																		no	
	Sperm whale (Physeter macrocephalus)																		no	
Birds	Nelson's sharp-tailed sparrow						WV	٧W											not on SGCN list	
142															•				yes	
	American bittern (Botaurus lentiginosus (Botaurus lentiginosos))						W												yes	į .
	American black duck (Anas rubripes)													1 1					yes	
	American goldenplover (<i>Pluvialis dominica</i>)															- 1 - 1	1 1	1 1	yes	<u> </u>
	American oystercatcher (Haematopus palliatus)							1 1											yes	1
	American woodcock (Scolopax minor) Atlantic brant (Branta bernicla)					lacksquare		-1						1 1			1 1	1 1	yes	!
	Bald eagle (Haliaeetus leucocephalus (Haliaeetus leucophalus))						1									1 1	-1-1	-11	yes yes	!
	Barred owl (Strix varia)							1.1											yes	
	Black rail (Laterallus jamaicensis)					t		1 1											ves	1
	Black scoter (Melanitta nigra)			1	1	1						l '	' '			\dashv			ves	
	Black skimmer (<i>Rynchops niger</i>)			1	t	1	BW								,				yes	1
	Black-and-white warbler (Mniotilta varia)															, ,	' '		yes	
	Black-billed cuckoo (Coccyzus erythropthalmus)				L														yes	
	Blackburnian warbler (Dendroica fusca)																		yes	
	Black-crowned nightheron (Nycticorax nycticorax)																		yes	
	Black-throated blue warbler (Dendroica caerulescens)				<u> </u>	!													yes	
	Black-throated green warbler (Dendroica virens)				<u> </u>	<u> </u>		\perp		4									yes	<u> </u>
	Blue-headed vireo (solitary vireo) (Vireo solitarius)					!		\perp		_									yes	1
	Blue-winged warbler (Vermivora pinus)					<u> </u>													yes	<u> </u>

		1					1		Diadasast			I	1
							Atlantic Coastal	Delaware Bay	Piedmont Plains	Pinelands	Skylands		
		l										Freshwater aquatic	
Taxa	Common Name (Latin Name)	EW	FW	F	G	В	AO BB BC CM	S M T B S	원원망망	SP WP MR	의 호 표 점 당 등 등	(including wetland)?	
	Brown thrasher (Toxostoma rufum)											yes	
	Bufflehead (Bucephala albeola)						HWHWHW					yes	
	Canada geese (Atlantic population, migrants) (Branta Canadensis interior)						HWHWHW					yes	
	Canada warbler (Wilsonia canadensis)											yes	
	Canvasback (Aythya valisineria)						HWHWHW					yes	
	Caspian Tern (Sterna caspia)											yes	
	Cattle egret (Bubulcus ibis)											yes	
	Cerulean warbler (Dendroica cerulea)											yes	
	Chimney swift (Chaetura pelagica)						FFF					yes	
	Chuck-will'swidow (Caprimulgus carolinensis)											yes	
	Clapper rail (Rallus longirostris)	4										yes	
	Cliff swallow (Petrochelidon pyrrhonota)											yes	
	Common Eider (Somateria mollissima)						ннн					yes	
	Common tern (Sterna hirundo)				_							yes	
	Cooper's hawk (Accipiter cooperii)	!				-						yes	
	Eastern screech-owl (Otus asio)	1						FFF F				yes	
	Eastern towhee (Pipilo erythrophthalmus (Pipilo erythrophthalamus))									1 1 1		yes	
	Forster's tern (Sterna forsteri)											yes	
	Glossy ibis (Plegadis falcinellus)				l							yes	
	Gray catbird (<i>Dumetella carolinensis</i>) Gray-cheeked thrush (<i>Catharus minimus</i>)	1								1 1 1		yes	
	Gray-cheeked thrush (Catharus minimus) Great blue heron (Ardea herodias)											yes	
	Great crested flycatcher (Myiarchus crinitus)	1					FFF					yes	
	Great egret (Ardea alba)						FFF					yes yes	
	Greater scaup (<i>Aythya marila</i>)						HWHWHW			1 1 1		yes	
	Greater yellowlegs (<i>Tringa melanoleuca</i>)	1					W W W		1 1 1			ves	
	Green heron (Butorides virescens)	1					VV VV VV					yes	
	Gull-billed tern (Sterna nilotica)											ves	
	Harlequin Duck (<i>Histrionicus histrionicus</i>)						ннн					yes	
	Henslow's sparrow (<i>Ammodramus henslowii</i>)											yes	
	Hooded warbler (Wilsonia citrina)											yes	
	Horned grebe (Podiceps auritus)	1					1 ' ' ' ' ' ' 0		W			yes	
	Hudsonian Godwit (<i>Limosa haemastica</i>)	1					www					yes	
	Indigo bunting (Passerina cyanea)							GFGF				yes	
	Kentucky warbler (Oporornis formosus)											yes	
	King rail (Rallus elegans)											yes	
	Least bittern (Ixobrychus exilis)											yes	
	Least flycatcher (Empidonax minimus)											yes	
	Least tern (Sterna antillarum)											yes	
	Lesser scaup (Aythya affinis)						HWHWHW					yes	
	Little blue heron (Egretta caerulea)											yes	
	Long-tailed duck (Clangula hyemalis)						ннн					yes	
	Louisiana waterthrush (Seiurus motacilla)											yes	
	Marbled Godwit (Limosa fedoa)						w w w					yes	
	Marsh wren (Cistothorus palustris)											yes	
	Northern flicker (Colaptes auratus)							FFF F				yes	
	Northern gannet (Morus bassanus)						0		W			yes	
	Northern goshawk (Accipiter gentilis)											yes	
	Northern harrier (Circus cyaneus)											yes	
	Northern parula (Parula Americana)											yes	
	Northern pintail (<i>Anas acuta</i>)						HWHWHW					yes	
	Osprey (Pandion haliaetus)											yes	
	Peregrine falcon (Falco peregrinus)											yes	
	Pied-billed grebe (Podilymbus podiceps)											yes	
	Pine warbler (Dendroica pinus)	1										yes	

Taxa Common Name (Latin Name) EW FW F G B S Q B S Q B S E B S Q B S E B S D B S D B S D B S D B S D B S D B S D B S D B S D S D	Freshwater aquatic (including wetland)? yes yes yes yes yes yes yes yes yes ye	
Taxa	(including wetland)? yes yes yes yes yes yes yes yes yes ye	
Prairie warbler (Dendroica discolor) Prothonotary warbler (Protonotaria citrea) Purple finch (Capidacus purpureus) Red knot (Calidris canutus) Red-shouldered hawk (Buteo lineatus) Red-shouldered h	yes	
Prothonotary warbler (Protonotaria citrea) Purple finch (Carpodecus purpureus) Red knot (Calidris canutus) Red-shouldered hawk (Buteo lineatus) Red-shouldered hawk (Buteo lineatus) Red-throated loon (Gavia stellata) Roseate Tern (Sterna dougallii) Rose-breasted grosbeak (Pheucicus ludovicianus) Ruddy turnstone (Arenaria interpres) BW BWW Ruffed grouse (Bonasa umbellus) Saltmarsh sharptalled sparrow (Ammodramus caudacutus) Scariet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus platensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Acopiter striatus) Short-eared owl (Asio flammeus) Snowy egret (Egretta thula) Sora rail (Porzana carolina) Syorted sandpiper (Acitiis macularia) Surf scoter (Melanita perspicillata) H H H Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Ralisus limicola)	yes	
Purple finch (Carpodacus purpureus) Red knot (Calidris canutus) Red-shouldered hawk (Buteo lineatus) Rose-breasted grosbeak (Pheucticus ludovicianus) Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Arnmodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Arnmodramus maritimus) Seedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Snowy egret (Egretat inula) Sora rail (Porzana carolina) Sora rail (Porzana carolina) Summer tanager (Piranga rubra) H H H Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virgina rail (Rallus limicola)	yes	
Red knot (Calidris canutus) Red-shouldered hawk (Buteo lineatus) Red-throated loon (Gavia stellata) Roseate Tern (Sterna dougallii) Rose-breasted grosbeak (Pheucticus ludovicianus) Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga oivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owi (Asio flammeus) Snore rail (Porzana carolina) Sora rail (Porzana carolina) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) H H H Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Red-shouldered hawk (Buteo lineatus) Red-shouldered howk (Buteo lineatus) Red-shoulded loon (Sarva stellata) Rose-breasted (Gravia stellata) Rose-breasted grosbeak (Pheucticus ludovicianus) Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Califer striatus) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Sonow geret (Egretta thula) Sora rail (Porzana carolina) Sypotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Verey (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Red-throated loon (Gavia stellata) Roseate Tern (Sterna dougallii) Rose-breasted grosbeak (Pheucticus ludovicianus) Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus plantensis (Cistothorus plantensis)) Sempialmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Sona rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Roseate Tern (Sterna dougallii) Rose-breasted grosbeak (Pheuciticus ludovicianus) Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Seedge wren (Cistothorus platensis (Cistothorus platensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owi (Asio fiammeus) Sora rail (Porzana carolina) Sora rail (Porzana carolina) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Rose-breasted grosbeak (Pheucticus Iudovicianus) Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Snowy egret (Egretta thula) Sora rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Ruddy turnstone (Arenaria interpres) Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Snowy egret (Egretta thula) Sora rail (Porzana carolina) Synotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Ruffed grouse (Bonasa umbellus) Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilia) Sharp-shinned hawk (Accipiter striatus) Short-eared owi (Asio flammeus) Snowy egret (Egretta thula) Sora rail (Porzana carolina) Summer tanager (Piranga rubra) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Saltmarsh sharptailed sparrow (Ammodramus caudacutus) Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus platensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Sora rail (Porzana carolina) Sora rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Scarlet tanager (Piranga olivacea) Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus platensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Snowy egret (Egreta thula) Sora rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes yes yes yes yes yes yes yes	
Seaside sparrow (Ammodramus maritimus) Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Sonow gegret (Egretta thula) Sora rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes yes yes yes yes yes yes yes yes	
Sedge wren (Cistothorus platensis (Cistothorus plantensis)) Semipalmated sandpiper (Calidris pusilla) Sharp-shinned hawk (Accipiter striatus) Short-eared owl (Asio flammeus) Snowy egret (Egretta thula) Sora rail (Porzana carolina) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes yes yes yes yes yes yes yes	
Semipalmated sandpiper (Calidris pusilla)	yes yes yes yes yes yes yes	
Sharp-shinned hawk (Accipiter striatus)	yes yes yes yes yes	
Short-eared owl (Asio flammeus) Snowy egret (Egretta thula) Sora rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes yes yes yes	
Snowy egret (Egretta thula) Sora rail (Porzana carolina) Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes yes yes	
Sora ratil (<i>Porzana carolina</i>)	yes yes	
Spotted sandpiper (Actitis macularia) Summer tanager (Piranga rubra) Surf scoter (Melanita perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Summer tanager (Piranga rubra) Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscscens) Virginia rail (Rallus limicola)		
Surf scoter (Melanitta perspicillata) Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	VAS	
Tricolored heron (Egretta tricolor) Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yco	
Veery (Catharus fuscescens) Virginia rail (Rallus limicola)	yes	
Virginia rail (Rallus limicola)	yes	
	yes	
Whimbrel (Mymorius phocosus)	yes	
Whimbrel (Numenius phaeopus)	yes	
Whip-poor-will (Caprimulgus vociferus)	yes	
White-winged scoter (Melanitta fusca)	yes	
Willet (Catoptrophorus semipalmatus)	yes	
Willow flycatcher (Empidonax traillii)	yes	
Winter wren (Troglodytes troglodytes)	yes	
Wood duck (Aix sponsa) W W W W	yes	
Wood thrush (Hylocichla mustelina)	yes	
Worm-eating warbler (Helmitheros vermivorus)	yes	
Yellow-bellied sapsucker (Sphyrapicus varius)	yes	
Yellow-billed cuckoo (Coccyzus americanus)	yes	
Yellow-breasted chat (Icteria virens)	yes	
Yellow-crowned nightheron (Nyctanassa violacea (Nyctanassa violaceus))	yes	
Yellow-throated vireo (Vireo flavifrons)	yes	
Yellow-throated warbler (Dendroica dominica)	yes	
Arctic Tern	not on SGCN list	
Carolina Chickadee	not on SGCN list	
Common moorhen	not on SGCN list	
Eastern Bluebird	not on SGCN list	
Hairy Woodpecker	not on SGCN list	
Hermit Thrush	not on SGCN list	
Ipswitch Sparrow	not on SGCN list	
Northern Saw-whet owl	not on SGCN list	
Red crossbill	not on SGCN list	
Red breasted nuthatch	not on SGCN list	
Red-eyed vireo	not on SGCN list	
White-eyed vireo	not on SGCN list	
Wilson's Pharalope	not on SGCN list	
Swainson's warbler (Limnothlypis swainsonii)		
	none listed	

							l		_				Piedmont						
							At	tlantic	Coasta	_	Delaware Ba	ay	Plains	Pin	elands	┸	Skylands	Farabourtes assertia	.
Tava	Common Nama // atin Nama	_\A/	FW	F	G	В	S	ပြုပ		0	유 분 명	Σ	무 윤 당 당	۵ و	투름	9	≥ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Freshwater aquatic (including wetland)?	l
Taxa	Common Name (Latin Name)	⊏VV	FVV	Г	G	ь	S	A B		⋖	OI≥IFI⊡	O	ZIRIOIO	တ 5	≤ ≥ ≥			· · · ·	l
	Baltimore oriole (<i>Icterus galbula</i>) Black tern (<i>Chlidonias niger</i>)								1 1 1				1 1 1	1	1 1			no	
	Bobolink (Dolichonyx oryzivorus)						1 1	1 1	1 1 1									no	l
									+	-1								no	-
	Broad-winged hawk (<i>Buteo platypterus</i>) Common barn owl (<i>Tyto alba</i>)																	no no	ł .
	Common nighthawk (<i>Chordeiles minor</i>)							1 1	1 1 1										ł
									+	-1						H		no	-
	Dickcissel (Spiza americana)						-		+							-		no	l
	Eastern kingbird (<i>Tyrannus tyrannus</i>) Eastern meadowlark (<i>Sturnella magna</i>)						-		+									no	l
									+	-1								no	-
	Eastern woodpewee (Contopus virens)								+	-1								no	-
	Field sparrow (Spizella pusilla) Golden-winged warbler (Vermivora chrysoptera)						-		+	_	1 1 1				1 1			no	l
							-		+						1 1			no	!
-	Grasshopper sparrow (Ammodramus savannarum)									0					1 1			no	
-	Greater shearwater (Puffinus gravis)									U					1 1		<u> </u>	no	
	Horned lark (Eremophila alpestris)						,		1 1 1						1 1			no	
-	Loggerhead shrike (Lanius Iudovicianus)							\vdash	+++	-				\vdash	++	1	<u> </u>	no	
	Long-eared owl (Asio otus)	<u> </u>				-	\vdash		+	_								no	
	Northern bobwhite (Colinus virginianus)								$\perp \perp \perp \perp$				1 1 1		1 1			no	!
	Razorbill (Alca torda)								1 1 1	0								no	
	Red-headed woodpecker (Melanerpes erythrocephalus)								$\perp \perp \perp \perp$						1 1			no	
	Sanderling (Calidris alba)															ш		no	
	Savannah sparrow (Passerculus sandwichensis)								\perp									no	
	Upland sandpiper (Batramia longicauda)								\perp					<u> </u>				no	
	Vesper sparrow (Pooecetes gramineus)								$\perp \perp \perp$	_		_		_		╄		no	116
Reptiles	Bog turtle (Glyptemys muhlenbergii)						١.,											yes	
17	Eastern kingsnake (Lampropeltis getula getula)								$\perp \perp \perp \perp$							L		yes	
	Northern diamondback terrapin (Malaclemys terrapin terrapin)						1							L,		L		yes	
	Queen snake* (Regina septemvittata)												WF					yes	
	Spotted turtle (Clemmys guttata)								\perp	_								yes	
	Timber rattlesnake (Crotalus h. horridus)																	yes	
	Wood turtle (Glyptemys insculpta (previously called Clemmys insculpta))											ш	F VG F F					yes	
	Coastal plain milk snake (Lampropeltis triangulum triangulum x L. t. elapsoides)															L		no	
	Corn snake (Elaphe g. guttata)																	no	
	Eastern box turtle (Terrapene carolina carolina)						١.,											no	
	Green sea turtle (Chelonia mydas)															┺		no	
	Hawksbill sea turtle (Eretmochelys imbricata)															┺		no	
	Kemp's ridley sea turtle (Lepidochelys kempi)								+	_		Ц			$\perp \perp$	1		no	
	Leatherback sea turtle (Dermochelys coriacea)								+	J		IJ	\bot		$\perp \perp$	1		no	
	Loggerhead sea turtle (Caretta caretta)					ļ	1		+	_		Ц			+	1		no	1
	Northern copperhead (<i>Agkistrodon contortrix mokasen</i>) Northern pine snake (<i>Pituophis m. melanoleucus</i>)						1		+	_[Ц				Г		no	 _
L	, , ,		Ш			_	\vdash		+	_		_		-		L		no	7
	Blue-spotted salamander (Ambystoma laterale)								+	_		Ш						yes	
11	Carpenter frog (Rana virgatipes)												1 1 1					yes	
ļ	Cope's gray treefrog (Hyla chrysocelis)						Ι,				1 1 1					L		yes	1
	Eastern mud salamander (Pseudotriton montanus)								+	_		Ц				L		yes	
	Tiger Salamander (Eastern tiger salamander) (Ambystoma tigrinum)															L		yes	<u> </u>
	Fowler's toad (Bufo fowleri (Bufo woodhousii fowleri))						Ι,				1 1 1	,		Ι,	1 1			yes	<u> </u>
	Jefferson salamander (Ambystoma jeffersonianum)								+	J		Ц		lacksquare	$\perp \perp$	1		yes	
	Longtail Salamander (Long-tailed salamander) (Eurycea longicauda)								+	_		Ц						yes	
	Marbled salamander (Ambystoma opacum)																	yes	I
	Northern spring salamander (Gyrinophilus porphyriticus (Gyrinophilus porphyriticus p	orph	/riticu	s))								Ц						yes	L
	Pine Barrens treefrog (Hyla andersonii)							oxed	$\perp \perp \perp$							┖		yes	11
Mollusks	Brook floater (Alasmidonta varicosa)																	yes	1
9	Creeper (Strophitus undulatus (Strophitus undulates))								$\perp \perp \mid$	J		L J			$\perp \! \! \perp \! \! \perp$			yes	
	Dwarf wedgemussel (Alasmidonta heterodon)																	yes	<u> </u>
							•			_ 1	1 1 1			-		-		.,	

											T				Pie	dmo	nt								I	
							Α	tlant	tic Co	astal	Е	Delaw	are B	ay	Ρ	lains	3	Pin	nelar	nds		SI	kylan	ds		
Taxa	Common Name (Latin Name)	EW	FW	F	G	В	MO	βC	- R	1 ≸ 9	S R	AR.	또 뭐	CM	₽ K		SP	SP	₹ §	ΜP	9 3	> =	M	동동당	Freshwater aquatic (including wetland)?	
	Eastern lampmussel (Lampsilis radiata)						Ť				Ť	T		Ŭ		Ť		٠, ,						<u> </u>	yes	
	Eastern pondmussel (<i>Ligumia nasuta</i>)										1	+			- 1							-1	1 1	1.1	yes	
	Green floater (Lasmigona subviridis)																				,	,		' '	yes	
	Tidewater mucket (<i>Leptodea ochracea</i>)															,									yes	
	Triangle floater (Alasmidonta undulata)																								ves	
	Yellow lampmussel (Lampsilis cariosa)																								yes	
Insects	Hoary elfin																								yes ???	
67	Appalachian grizzled skipper* (Pyrgus wyandot)																								ves	
	Arogos skipper (Atrytone arogos arogos)																								yes	
	Bronze copper (Lycaena hyllus)																								yes	
	Checkered white (Pontia protodice)																								yes	
	Dotted skipper (Hesperia attalus)																								yes	
	Frosted elfin (Callophrys irus)																								yes	
	Harris's checkerspot (Chlosyne harrisii)																								yes	
	Hessel's hairstreak (Callophrys hesseli)																			· I					yes	
	Mitchell's satyr** (Neonympha m. mitchellii)																				none	liste	d		yes	
	Northern metalmark (Calephelis borealis)																						·		yes	
	Silver-bordered fritillary (Bolaria selene myrina)																								yes	
	Two-spotted skipper (Euphyes bimacula (Euphys bimacula))																								yes	
	Georgia Satyr																								not on SGCN list	
	American burying beetle** (Nicrophorus mericanus)																								no	
	Northeastern beach tiger beetle																					·			no	
	A geometrid moth (Idaea violacearia)																			· I						
	A geometrid moth (Metarranthis lateritiaria)																									
	A geometrid moth (<i>Metarranthis sp 1</i>)																									
	A noctuid moth (<i>Apamea inebriata</i>)																									
	A noctuid moth (Apamea mixta)																									
	A noctuid moth (Apharetra dentata)																									
	A noctuid moth (Chytonix sensilis)																									
	A noctuid moth (Cucullia alfarata)																									
	A noctuid moth (<i>Macrochilo louisiana</i>)																									
	A noctuid moth (Macrochilo santerivalis)																									
	A noctuid moth (Macrochilo sp 1)																									
	A noctuid moth (Meropleon cosmion)										4										none	liste	d			
	A noctuid moth (Meropleon titan)																									
	A notodontid moth (Heterocampa varia)										_															
	A slugmoth (Monoleuca semifascia)										_															
	A spanworm (Itame sp 1)						!	\vdash		+		1				1						1.	Ļ			
	Buchholz's gray (Hypomecis buchholzaria)			<u> </u>			1—	\vdash		++	+	+	_	\vdash		-	\vdash				none	liste	d	++		1
	Carter's noctuid moth (Spartiniphaga carterae)			<u> </u>			1—	\vdash	\vdash	++	+	+	_		\vdash	-	\vdash				_	-	++	++		1
	Catocala jair ssp 2					!	1-	\vdash	$\vdash\vdash$	++	-	1 1			$\vdash \vdash$	+	\vdash				+	+	++	-	1	
	Chain fern borer moth (Papaipema stenocelis)						╂—	+	\vdash	+		1 1				1						-1-		1 1		1
	Clubtail dragonfly (Gomphus septima) Daecke's pyralid moth (Crambus daeckellus)						1	\vdash	\vdash	+	+	++			-								1 1	1 1		
	Dalecke's pyralid moth (<i>Crambus daeckelius)</i> Doll's merolonche (<i>Merolonche dolli</i>)						1—	\vdash	\vdash	++	+	++				1					+	+	+	+		1
	Doil's merolonche (<i>Merolonche dolli)</i> Eusarca fundaria			-			1	++		++	-	1 1		Щ								+	++	++		-
	Eusarca fundaria Extra-striped snaketail (Ophiogomphus anomalus)						1	H		+		1 1					\vdash		+	+	- 1	-1-				1
	Granitosa fern moth (Callopistria granitosa)						1	++	+	++	+	++		\vdash		+	\vdash		- 1	1			1 1	1 1		1
	Granitosa iem motin (<i>Callopistria granitosa)</i> Green-faced clubtail (<i>Gomphus viridifrons</i>)			-		1	1—	\vdash	\vdash	++	+	++	_		$\vdash \vdash$	+	\vdash				+	+	+	++	1	1
	Half yellow moth (<i>Tarachidia semiflava</i>)			-			1	H		+		1 1	- 1			-	\vdash		+	+			+	++	1	1
	Herodias or Gerhard's underwing (Catocala herodias gerhardi)			-			1	H		+	-	1 1				-	\vdash		-1				+	++	1	1
	Lemmer's pinion moth (<i>Lithophane lemmeri</i>)		\vdash			1	1	H	\vdash	++		1 1				1					+	+	+	++	1	1
	Lytrosis sinuosa		\vdash			1	1	H	\vdash	++						1					+	+	+	++	1	1
	Maritime sunflower borer (<i>Papaipema maritima</i>)							1 1								+	\vdash		-	+	-	+	\forall		 	
	Nemoria saturiba														i I		1			1		- 1	_		1	

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, New Jersey

														Pi	iedm	ont	I								
							At	lanti	ic Coas	tal	Dela	ware	Bay		Plain	าร	Pi	nela	nds		Sky	lands	S		
									(D	,	~ ~		~ <	_	~ ^			n n	r 0					Freshwater aquatic	
Taxa	Common Name (Latin Name)	EW	FW	F	G	В	S	A S	8 8	¥Υ	占	¥ E	5 5	불	2 2	5 5	S	<u> </u>	žΣ	5	≩ ± t	5 0	ᇙᇙ	(including wetland)?	
	New England bluet (Enallagma laterale)																								
	Pero zalissaria																								
	Pine Barrens bluet (Enallagma recurvatum)																								
	Pine Barrens zale (Zale sp 1)																								
	Pink streak (Faronta rubripennis)																								
	Pitcher plant borer moth (Papaipema appassionata)																								
	Placentia tiger moth (Grammia placentia)																								
	Precious underwing (Catocala pretiosa pretiosa)										, i														
	Rare skipper (Problema bulenta)														· ·										
	Regal moth (Citheronia regalis)																								
	Richia sp 2															Ī						Т			
	Ringed boghaunter (Williamsonia lintneri)																								
ĺ	Rippled wave (Idaea obfusaria)																								
i	Scarlet bluet (Enallagma pictum)																								1
	Schweitzer's buckmoth (Hemileuca sp 2)																								
	Simyra sp 1												,												1
	Southern ptichodis (Ptichodis bistrigata)																		,						1
	The consort, or consors underwing (Catocala consors sorsconi)																								1
	Zanclognatha sp 1																								
Fish	American brook lamprey* (Lampetra appendix)																							yes	1
20	Atlantic sturgeon (Acipenser oxyrinchus (Acipenser oxyrhynchus))																							yes	
	Banded sunfish* (Enneacanthus obesus)																		,					yes	1
	Black-banded sunfish (Enneacanthus chatedon)																							yes	1
	Bridle shiner (Notropis bifrenatus)													,										yes	1
	Brook trout♦ (Salvelinus fontinalis)																							yes	
	Brown trout* (Salmo trutta,)																							yes	1
	Comely shiner (Notropis amoenus)																							yes	1
	Cutlips minnow (Exoglossum maxillingua (Exoglossum magillingua))																							ves	
	Hickory shad (Alosa mediocris)												, i											yes	
	Ironcolor shiner (Notropis chalybaeus (Notropis chaleybaeus))																		,					yes	1
	Longnose gar (Lepisosteus osserus)																							ves	
	Margined madtom (Noturus insignis)												,		,	,		- '	'					yes	
	Northern hogsucker (<i>Hypentelium nigricans</i>)																							yes	l
	Pirate perch (Aphroderus sayanus)													П					,					yes	l
	Rainbow smelt (Osmerus mordax)																							yes	
	Rainbow trout* (Salmo gairdneri,)																				' '	,		yes	
	Shield darter (Perca peltata)													1				,	'					yes	l
	Shortnose sturgeon (Acipenser brevirostrum (Acipencer brevirostrum))										,													yes	l
	Slimy sculpin** (Cottus cognatus)																							yes	
Total	29	7						_			_			7		_	$\overline{}$						T T		1

	Common Name (Latin Name):	Species Group:
Bird	American bittern (Botaurus lentiginosus (Botaurus lentiginosos))	Freshwater marsh nesting birds
	American black duck (<i>Anas rubripes</i>)	Breeding waterfowl
40	Atlantic brant (<i>Branta bernicla</i>)	Wintering waterbirds
	Bald eagle (Haliaeetus leucocephalus (Haliaeetus leucophalus))	Bald Eagle
	Black scoter (Melanitta nigra)	Wintering waterbirds
	Black tern (Chlidonias niger)	Freshwater marsh nesting birds
	Black-crowned night-heron (Nycticorax nycticorax)	Colonial-nesting herons
	Blue-winged teal (Anas discors)	Breeding waterfowl
	Bonaparte's gull (Larus philadelphia)	Wintering waterbirds
	Cattle egret (Bubulcus ibis)	Colonial-nesting herons
	Common eider (Somateria mollissima)	Wintering waterbirds
	Common goldeneye (Bucephala clangula)	Breeding waterfowl
	Common loon (Gavia immer)	Common loon
	Cory's shearwater (Calonectris diomedea)	Wintering waterbirds
	Glossy ibis (<i>Plegadis falcinellus</i>)	Colonial-nesting herons
	Great egret (<i>Ardea alba</i>)	Colonial-nesting herons
	Greater scaup (Aythya marila)	Wintering waterbirds
	Greater shearwater (Puffinus gravis)	Wintering waterbirds
	Harlequin duck (Histrionicus histrionicus)	Wintering waterbirds
	Horned grebe (Podiceps auritus)	Wintering waterbirds
	King rail (Rallus elegans)	Freshwater marsh nesting birds
	Least bittern (Ixobrychus exilis)	Freshwater marsh nesting birds
	Lesser scaup (Aythya affinis)	Wintering waterbirds
<u> </u>	Little blue heron (Egretta caerulea)	Colonial-nesting herons
<u> </u>	Little gull (<i>Larus minutus</i>) Long-tailed duck (<i>Clangula hyemalis</i>)	Wintering waterbirds Wintering waterbirds
	Northern pintail (<i>Anas acuta</i>)	Wintering waterbirds Wintering waterbirds
	Osprey (<i>Pandion haliaetus</i>)	Osprey
	Pied-billed grebe (Podilymbus podiceps)	Freshwater marsh nesting birds
	Razorbill (Alca torda)	Wintering waterbirds
	Red-necked phalarope (<i>Phalaropus lobatus</i>)	Wintering waterbirds
	Red-throated loon (<i>Gavia stellata</i>)	Wintering waterbirds
	Ruddy duck (Oxyura jamaicensis)	Breeding waterfowl
	Snowy egret (<i>Egretta thula</i>)	Colonial-nesting herons
	Surf scoter (Melanitta perspicillata)	Wintering waterbirds
	Thayer's gull (<i>Larus thayeri</i>)	Wintering waterbirds
	Tricolored heron (Egretta tricolor)	Colonial-nesting herons
	White-winged scoter (Melanitta fusca)	Wintering waterbirds
	Yellow rail (Coturnicops noveboracensis)	Freshwater marsh nesting birds
	Yellow-crowned night-heron (Nyctanassa violacea (Nyctanassa violaceu	Colonial-nesting herons
Crustacea	Devil crawfish (Cambarus diogenes)	Freshwater crustacea
2	Piedmont groundwater amphipod (Stygobromus tenuis tenuis (Stygobror	Freshwater crustacea
Freshwater Fish	Atlantic salmon (Salmo salar)	Extirpated Fishes
40	Banded sunfish (Enneacanthus obesus)	Banded sunfish
	Bigeye chub (<i>Hybopsis amblops</i>)	Bigeye chub
	Black redhorse (Moxostoma duquesnei)	Black redhorse
		Blackchin shiner
		Extirpated Fishes
	Bluebreast darter (Etheostoma camurum)	Bluebreast darter
	Brook trout, Heritage strains (Salvelinus fontinalis)	Brook trout, Heritage strains
	Comely shiner (Notropis amoenus)	Comely shiner
	Deepwater sculpin (Myoxocephalus thompsoni)	Deepwater sculpin
		Eastern sand darter
	Gilt darter (Percina evides)	Extirpated Fishes
	Gravel chub (Erimystax x-punctatus)	Gravel chub
<u> </u>	lowa darter (Etheostoma exile) Ironcolor shiner (Notropis chalybaeus (Notropis chaleybaeus))	lowa darter
-	Kiyi (Coregonus kiyi)	Ironcolor shiner
<u> </u>	Lake chubsucker (<i>Erimyzon sucetta</i>)	Extirpated Fishes Extirpated Fishes
<u> </u>	Lake sturgeon (<i>Acipenser fulvescens</i>)	Lake Sturgeon
-	Lake sturgeon (<i>Acipenser ruivescens)</i> Longear sunfish (<i>Lepomis megalotis</i>)	Longear sunfish
	Longhead darter (<i>Percina macrocephala</i>)	Longhead darter
<u> </u>	Mooneye (<i>Hiodon tergisus</i>)	Mooneye
	Mountain brook lamprey (<i>lchthyomyzon greeleyi</i>)	Mountain brook lamprey
	Mud sunfish (<i>Acantharchus pomotis</i>)	Extirpated Fishes
	N. American ninespine stickleback (<i>Pungitius pungitius occidentalis</i>)	Ninespine stickleback - inland
	Ohio lamprey (Ichthyomyzon bdellium)	Ohio lamprey
	Paddlefish (<i>Polyodon spathula</i>)	Extirpated Fishes
L	. addition (1 bij odoli opatitala)	Extended 1 101100

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	Common Name (Latin Name):	Species Group:
	Pugnose shiner (Notropis anogenus)	Pugnose shiner
	Redfin shiner (Lythrurus umbratilis)	Redfin shiner
	River redhorse (Moxostoma carinatum)	River redhorse
	Round whitefish (Prosopium cylindraceum (Prosopium cylindraceus))	Round whitefish
	Sauger (Stizostedion canadense)	Sauger
	,	
	Shortjaw cisco (Coregonus zenithicus)	Extirpated Fishes
	Shortnose cisco (Coregonus reighardi)	Extirpated Fishes
	Silver chub (Macrhybopsis storeriana)	Extirpated Fishes
	Spoonhead sculpin (Cottus ricei)	Extirpated Fishes
	Spotted darter (Etheostoma maculatum)	Spotted darter
	Streamline chub (Erimystax dissimilis)	Streamline chub
	Swallowtail shiner (Notropis procne)	Swallowtail shiner
	Swamp darter (Etheostoma fusiforme)	Swamp darter
	Western pirate perch (Aphredoderus sayanus gibbosus)	Western pirate perch
Herpetofauna	Blanding's turtle (Emydoidea blandingii (Emys blandingii))	Uncommon turtles of wetlands
21	Blue-spotted salamander (Ambystoma laterale)	Vernal pool salamanders
	Bog turtle (Clemmys muhlenbergii)	Uncommon turtles of wetlands
Reptiles	Coal skink (Eumeces anthracinus)	Lizards (shrub swamp, mineral soil wetland)
13	Common mudpuppy (Necturus maculosus)	Mudpuppy
Amphibians	Eastern massasauga (Sistrurus c. catenatus (Sistrurus catenatus catena	Massasauga (shrub swamp, mineral soil wetland)
14	Eastern mud turtle (Kinosternon subrubrum)	Uncommon turtles of wetlands
	Ribbon Snake (Eastern Ribbonsnake) (Thamnophis sauritus (Thamnoph	
	Eastern spadefoot (Scaphiopus holbrookii)	Eastern Spadefoot Toad (vernal pool, mineral soil wetland)
	Four-toed salamander (Hemidactylium scutatum)	Freshwater wetland amphibians
		'
	Fowler's toad (Bufo fowleri (Bufo woodhousii fowleri))	Freshwater wetland amphibians
	Hellbender (Cryptobranchus alleganiensis)	Hellbender
	Jefferson salamander (Ambystoma jeffersonianum)	Vernal pool salamanders
	Longtail Salamander (Long-tailed salamander) (Eurycea longicauda) (<i>Eu</i>	Stream salamanders
	Marbled salamander (Ambystoma opacum)	Vernal pool salamanders
	Northern cricket frog (Acris crepitans)	Freshwater wetland amphibians
	Northern map turtle (Graptemys geographica)	Lake/river reptiles
	Northern red salamander (Pseudotriton ruber)	Stream salamanders
	,	Lake/river reptiles
	Queen snake (Regina septemvittata)	
	Snapping turtle (Chelydra serpentina)	Snapping Turtle
	Southern leopard frog (Coastal Plain Leopard Frog) (Rana sphenocepha	Freshwater wetland amphibians
	Spiny softshell (<i>Trionyx spiniferus</i>)	Lake/river reptiles
	Spotted turtle (Clemmys guttata)	Uncommon turtles of wetlands
	Stinkpot (Common Musk Turtle) (Sternotherus odoratus)	Uncommon turtles of wetlands
	Tiger Salamander (Eastern tiger salamander) (Ambystoma tigrinum)	Vernal pool salamanders
	Western chorus frog (Pseudacris triseriata)	Freshwater wetland amphibians
	Wood turtle (Glyptemys insculpta (previously called Clemmys insculpta)	
Incod		
Insect	A mayfly (Procloeon mendax)	Stoneflies/Mayflies of lotic waters
76	A mayfly (Epeorus frisoni)	Stoneflies/Mayflies of lotic waters
	A mayfly (Rhithrogena uhari)	Stoneflies/Mayflies of lotic waters
	A mayfly (<i>Epeorus suffusus</i>)	Stoneflies/Mayflies of lotic waters
	A mayfly (Epeorus punctatus)	Stoneflies/Mayflies of lotic waters
	A mayfly (Ameletus tarteri)	Stoneflies/Mayflies of lotic waters
	A mayfly (Siphlonurus barbarus)	Stoneflies/Mayflies of lotic waters
	A mayfly (<i>Rhithrogena anomala</i>)	Stoneflies/Mayflies of lotic waters
	A mayfly (Brachycercus maculatus)	Stoneflies/Mayflies of lotic waters
	A mayfly (Siphlonurus barbaroides)	Stoneflies/Mayflies of lentic waters
<u> </u>		
	A mayfly (Procloeon ozburni)	Stoneflies/Mayflies of lotic waters
	A mayfly (Heptagenia julia)	Stoneflies/Mayflies of lotic waters
	A mayfly (Baetis rusticans)	Stoneflies/Mayflies of lotic waters
	A mayfly (Eurylophella bicoloroides)	Stoneflies/Mayflies of lotic waters
	A mayfly (Nixe rusticalis)	Stoneflies/Mayflies of lotic waters
	A mayfly (Heptagenia culacantha)	Stoneflies/Mayflies of lotic waters
	A mayfly (Ameletus tertius)	Stoneflies/Mayflies of lotic waters
	A stonefly (<i>Pteronarcys comstocki</i>)	Stoneflies/Mayflies of lotic waters
	A stonefly (Utaperla gaspesiana)	Stoneflies/Mayflies of lotic waters
	A stonefly (Alloperla vostocki)	Stoneflies/Mayflies of lotic waters
	A stonefly (Allocapnia illinoensis)	Stoneflies/Mayflies of lotic waters
	A tiger beetle (Cicindela ancocisconensis)	Riparian tiger beetles
	American burying beetle (Nicrophorus americanus)	American burying beetle
	American rubyspot (Hetaerina americana)	Odonates of rivers/streams
	Appalachian jewelwing (Calopteryx angustipennis)	Odonates of rivers/streams
	Arrow clubtail (Stylurus spiniceps) Arrowhead spiketail (Cordulegaster obliqua)	Odonates of rivers/streams Odonates of seeps/rivulets

	Common Name (Latin Name):	Species Group:
	Barrens buck moth (<i>Hemileuca maia maia</i>)	Rarrens buck moth
	Black meadowhawk (Sympetrum danae)	Odonates of bogs/fens/ponds
	Blue-tipped dancer (Argia tibialis)	Odonates of rivers/streams
	Bog buckmoth (Hemileuca sp.)	Bog buck moth
	Boreal snaketail (Ophiogomphus colubrinus)	Odonates of rivers/streams
	Brook snaketail (Ophiogomphus aspersus)	Odonates of rivers/streams
	Cobblestone tiger beetle (Cicindela marginipennis)	Riparian tiger beetles
	Cobra clubtail (Gomphus vastus)	Odonates of rivers/streams
	Comet darner (Anax longipes)	Odonates of lakes/ponds
	Common sanddragon (<i>Progomphus obscurus</i>)	Odonates of rivers/streams
	Ebony boghaunter (Williamsonia fletcheri)	Odonates of bogs/fens/ponds
	Elusive clubtail (Stylurus notatus)	Odonates of rivers/streams
	Extra-striped snaketail (Ophiogomphus anomalus)	Odonates of rivers/streams
	Forcipate emerald (Somatochlora forcipata) Gray petaltail (Tachopteryx thoreyi)	Odonates of bogs/fens/ponds Odonates of seeps/rivulets
	Green-faced clubtail (<i>Gomphus viridifrons</i>)	Odonates of seeps/rivulets Odonates of rivers/streams
	Incurvate emerald (Somatochlora incurvata)	Odonates of hydra/streams Odonates of bogs/fens/ponds
	Karner blue (<i>Lycaeides melissa samuelis</i>)	Karner blue butterfly
	Lake emerald (Somatochlora cingulata)	Odonates of lakes/ponds
	Little bluet (Enallagma minusculum)	Odonates of coastal plain lakes/ponds
	Mantled baskettail (Tetragoneuria semiaquea)	Odonates of lakes/ponds
	Midland clubtail (Gomphus fraternus)	Odonates of rivers/streams
	Mocha emerald (Somatochlora linearis)	Odonates of small forest streams
	Needham's skimmer (Libellula needhami)	Odonates of brackish marshes/lakes/ponds
	New England bluet (Enallagma laterale)	Odonates of lakes/ponds
	Ocellated emerald (Somatochlora minor)	Odonates of small forest streams
	Pine barrens bluet (Enallagma recurvatum)	Odonates of coastal plain lakes/ponds
	Pygmy snaketail (Ophiogomphus howei)	Odonates of rivers/streams
	Rambur's forktail (<i>Ischnura ramburii</i>)	Odonates of brackish marshes/lakes/ponds
	Rapids clubtail (Gomphus quadricolor)	Odonates of rivers/streams
	Ringed boghaunter (Williamsonia lintneri) Ringed emerald (Somatochlora albicincta)	Odonates of bogs/fens/ponds Odonates of high elevation lakes
	Riverine clubtail (<i>Stylurus amnicola</i>)	Odonates of rivers/streams
	Russet-tipped clubtail (Stylurus plagiatus)	Odonates of rivers/streams
	Sable clubtail (Gomphus rogersi)	Odonates of small forest streams
	Scarlet bluet (Enallagma pictum)	Odonates of coastal plain lakes/ponds
	Seepage dancer (Argia bipunctulata)	Odonates of seeps/rivulets
	Septima's clubtail (Gomphus septima)	Odonates of rivers/streams
	Skillet clubtail (Gomphus ventricosus)	Odonates of rivers/streams
	Southern sprite (Nehalennia integricollis)	Odonates of bogs/fens/ponds
	Sparkling jewelwing (Calopteryx dimidiata)	Odonates of rivers/streams
	Spatterdock darner (Aeshna mutata (Aeshna mutate))	Odonates of lakes/ponds
	Spine-crowned clubtail (Gomphus abbreviatus)	Odonates of rivers/streams
	Subarctic bluet (Coenagrion interrogatum)	Odonates of bogs/fens/ponds
	Subarctic darner (<i>Aeshna subarctica</i>) Sylvan hygrotus diving beetle (<i>Hygrotus sylvanus</i>)	Odonates of bogs/fens/ponds Sylvan hygrotus diving beetle
<u> </u>	Taper-tailed darner (Gomphaeschna antilope)	Odonates of bogs/fens/ponds
<u> </u>	Tiger spiketail (Cordulegaster erronea)	Odonates of bogs/rens/portus Odonates of seeps/rivulets
	Yellow-sided skimmer (<i>Libellula flavida</i>)	Odonates of sceps/redicts Odonates of bogs/fens/ponds
Mammals	River otter (Lontra canadensis)	Furbearers
Mollusk	Alewife floater (Anodonta implicata)	Freshwater bivalves
	Banded physa (<i>Physella vinosa</i>)	Freshwater gastropods
	Black sandshell (Ligumia recta)	Freshwater bivalves
	Brook floater (Alasmidonta varicosa)	Freshwater bivalves
	Buffalo pebblesnail (Gillia altilis)	Freshwater gastropods
	Campeloma spire snail (Cincinnatia cincinnatiensis)	Freshwater gastropods
	Canadian duskysnail (<i>Lyogyrus walkeri</i>)	Freshwater gastropods
	Chittenango ovate amber snail (Novisuccinea chittenangoensis)	Terrestrial gastropods
<u> </u>	Clubshell (<i>Pleurobema clava</i>) Coldwater pondsnail (<i>Stagnicola woodruffi</i>)	Freshwater dastropods
-	Coldwater pondsnali (Stagnicola Woodruπi) Deertoe (Truncilla truncata)	Freshwater gastropods
	Dwarf wedgemussel (<i>Alasmidonta heterodon</i>)	Freshwater bivalves Freshwater bivalves
	Eastern pearlshell (<i>Margaritifera margaritifera</i>)	Freshwater bivalves
	Eastern pondmussel (<i>Ligumia nasuta</i>)	Freshwater bivalves
	Elktoe (Alasmidonta marginata)	Freshwater bivalves
	Fat pocketbook (<i>Potamilus capax</i>)	Freshwater bivalves
	Fawnsfoot (<i>Truncilla donaciformis</i>)	Freshwater bivalves
	File rams-horn (<i>Planorbella pilsbryi</i>)	Freshwater gastropods

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, New York

	Common Name (Latin Name):	Species Group:
	Fingered valvata (Fringed valvata) (Valvata lewisi)	Freshwater gastropods
	Globe siltsnail (Birgella subglobosus)	Freshwater gastropods
	Gravel pyrg (Pyrgulopsis letsoni)	Freshwater gastropods
	Green floater (Lasmigona subviridis)	Freshwater bivalves
	Hickorynut (Obovaria olivaria)	Freshwater bivalves
	Kidneyshell (Ptychobranchus fasciolaris)	Freshwater bivalves
	Lance aplexa (Aplexa elongata)	Freshwater gastropods
	Lilliput (Toxolasma parvum)	Freshwater bivalves
	Mapleleaf (Quadrula quadrula)	Freshwater bivalves
	Mossy valvata (Valvata sincera)	Freshwater gastropods
	Mucket (Actinonaias ligamentina)	Freshwater bivalves
	Northern riffleshell (Epioblasma torulosa rangiana)	Freshwater bivalves
	Paper pondshell (Utterbackia imbecillis)	Freshwater bivalves
	Pimpleback (Quadrula pustulosa)	Freshwater bivalves
	Pink heelsplitter (Potamilus alatus)	Freshwater bivalves
	Pink mucket (Lampsilis abrupta)	Freshwater bivalves
	Pocketbook (Lampsilis ovata)	Freshwater bivalves
	Purplecap valvata (Valvata perdepressa)	Freshwater gastropods
	Rainbow (Villosa iris)	Freshwater bivalves
	Rayed bean (Villosa fabalis)	Freshwater bivalves
	Round hickorynut (Obovaria subrotunda)	Freshwater bivalves
	Round pigtoe (<i>Pleurobema sintoxia</i>)	Freshwater bivalves
	Salamander mussel (Simpsonaias ambigua)	Freshwater bivalves
	Sheepnose (<i>Plethobasus cyphus</i>)	Freshwater bivalves
	Slippershell mussel (Alasmidonta viridis)	Freshwater bivalves
	Snuffbox (<i>Epioblasma triquetra</i>)	Freshwater bivalves
	Spindle lymnaea (<i>Acella haldemani</i>)	Freshwater gastropods
	Threeridge (<i>Amblema plicata</i>)	Freshwater bivalves
	Tidewater mucket (Leptodea ochracea)	Freshwater bivalves
	Tubercled blossom (<i>Epioblasma torulosa</i>)	Freshwater bivalves
	Wabash pigtoe (<i>Fusconaia flava</i>)	Freshwater bivalves
	Watercress snail (Fontigens nickliniana)	Freshwater gastropods
	Wavyrayed lampmussel (Lampsilis fasciola)	Freshwater bivalves
	White heelsplitter (Lasmigona complanata)	Freshwater bivalves
	Yellow lamp mussel (Lampsilis cariosa)	Freshwater bivalves
	Yellow sandshell (Lampsilis teres)	Freshwater bivalves
Marine Fish	Alewife (Alosa pseudoharengus)	Alewife - marine district population
They claim 8 diadr	American eel (Anguilla rostrata)	American eel
	American shad (<i>Alosa sapidissima</i>)	American shad
	Atlantic sturgeon (Acipenser oxyrinchus (Acipenser oxyrhynchus))	Atlantic sturgeon
	Blueback herring (Alosa aestivalis)	Blueback herring
	Rainbow smelt (Osmerus mordax)	Rainbow smelt
	Shortnose sturgeon (Acipenser brevirostrum (Acipencer brevirostrum))	Shortnose sturgeon
Total	247	

		Immediate	
		High Level	
		Responsible	
		PA VULNERABLE	
		MAINTENANCE CONCERN	
Таха	Common Name	Habitat	
Amphibian		emergent wetlands/marshes	
	Eastern Spadefoot (Scaphiopus holbrookii)	Seasonal Wetlands, Sandy Beach Habitat	
	HELLBENDER (Cryptobranchus alleganiensis)	Streams and Rivers	
	Jefferson Salamander (<i>Ambystoma jeffersonianum</i>) Mountain Chorus Frog (<i>Pseudacris brachyphona</i>)	Seasonal Wetlands Sandy Beach Habitat, Seasonal Wetlands	
	New Jersey Chorus Frog (<i>Pseudacris bracriyphiona</i>)	Seasonal Wetlands, Streams and Rivers, emergent wetlands/marshes	
	Northern Cricket Frog (Acris crepitans)	Seasonal Wetlands, emergent wetlands/marshes	
	Upland Chorus Frog (Pseudacris feriarum)	Seasonal Wetlands, emergent wetlands/marshes	
Dinel	Western Chorus Frog (<i>Pseudacris triseriata</i>) American Bittern (Botaurus lentiqinosus (Botaurus lentiqinosos))	Seasonal Wetlands, emergent wetlands/marshes	9
Bird	Bald Eagle (Haliaeetus leucocephalus (Haliaeetus leucophalus))	emergent wetlands/marshes Streams and Rivers, emergent wetlands/marshes	
	Black Tern (Chlidonias niger)	emergent wetlands/marshes	
	Black-crowned Night Heron (Nycticorax nycticorax)	emergent wetlands/marshes	
	Great Egret (Ardea alba)	emergent wetlands/marshes	
	Green-winged Teal (<i>Anas discolor)</i> King Rail (Rallus elegans)	emergent wetlands/marshes emergent wetlands/marshes	
	Least Bittern (Ixobrychus exilis)	emergent wetlands/marshes	
	Long-eared Owl (Asio otus)	Sandy Beach Habitat	
	Marsh Wren (Cistothorus palustris)	emergent wetlands/marshes	
	Northern Bobwhite Quail (native) (Colinus virginianus)	Sandy Beach Habitat	
	Northern Harrier (<i>Circus cyaneus</i>) Osprey (Pandion haliaetus)	emergent wetlands/marshes Streams and Rivers, emergent wetlands/marshes	
	Sedge Wren (Cistothorus platensis (Cistothorus plantensis))	emergent wetlands/marshes	
	Short-eared Owl (Asio flammeus)	emergent wetlands/marshes	
	Virginia Rail (<i>Rallus limicola</i>)	emergent wetlands/marshes	
	Yellow-crowned Night Heron (Nyctanassa violacea (Nyctanassa violaceus))	emergent wetlands/marshes	17
Fish	ATLANTIC STURGEON (Acipenser oxyrinchus (Acipenser oxyrhynchus)) BANDED SUNFISH (Enneacanthus obesus)	Streams and Rivers Streams and Rivers	
	BIGMOUTH BUFFALO (Ictiobus cyprinellus)	Streams and Rivers	
	BIGMOUTH SHINER (Notropis dorsalis)	Streams and Rivers	
	BLACK BUFFALO (Ictiobus niger)	Streams and Rivers	
	BLACK BULLHEAD (Ameiurus melas)	Streams and Rivers	
	BLACKCHIN SHINER (Notropis heterodon) BLUEBREAST DARTER (Etheostoma camurum)	Streams and Rivers Streams and Rivers	
	BRIDLE SHINER (Notropis bifrenatus)	Streams and Rivers	
	BRINDLED MADTOM (Noturus miurus)	Streams and Rivers	
	BURBOT (Allegh R popn) (Lota lota)	Streams and Rivers	
	CHANNEL DARTER (Percina copelandi) CHEAT MINNOW (Pararhinichthys bowersi)	Streams and Rivers	
	CHECKERED SCULPIN (Cottus sp. 7 – not described)	Streams and Rivers Streams and Rivers	
	CHESAPEAKE LOGPERCH (Percina caprodes)	Streams and Rivers	
	CISCO (Coregonus artedi)	Streams and Rivers	
	EASTERN SAND DARTER (Ammocrypta pellucida (Ammocrypta pellucidum))	Streams and Rivers	
	GHOST SHINER (<i>Notropis buchanani</i>) GILT DARTER (<i>Percina evides</i>)	Streams and Rivers Streams and Rivers	
	GOLDEYE (Hiodon alosoides)	Streams and Rivers	
	GRAVEL CHUB (Erimystax x-punctatus)	Streams and Rivers	
	HICKORY SHAD (Alosa mediocris)	Streams and Rivers	
	HIGHFIN CARPSUCKER (Carpiodes velifer)	Streams and Rivers	
	HORNYHEAD CHUB (Nocomis biguttatus) IOWA DARTER (Etheostoma exile)	Streams and Rivers Streams and Rivers	
	IRONCOLOR SHINER (Notropis chalybaeus (Notropis chaleybaeus))	Streams and Rivers	
	LAKE STURGEON (Acipenser fulvescens)	Streams and Rivers	
	LONGEAR SUNFISH (Lepomis megalotis)	Streams and Rivers	
	LONGHEAD DARTER (Percina macrocephala)	Streams and Rivers	
	LONGNOSE SUCKER (Catostomus catostomus) MOONEYE (Hiodon tergisus)	Streams and Rivers Streams and Rivers	
	MOUNTAIN BROOK LAMPREY R (Ichthyomyzon greeleyi)	Streams and Rivers	
	MOUNTAIN MADTOM (Noturus eleutherus)	Streams and Rivers	
	NORTHERN BROOK LAMPREY (Ichthyomyzon fossor)	Streams and Rivers	
	NORTHERN MADTOM (Noturus stigmosus)	Streams and Rivers	
	OHIO LAMPREY (Ichthyomyzon bdellium) PADDLEFISH (Polydon spathula)	Streams and Rivers Streams and Rivers	
	RAINBOW SMELT (Osmerus mordax)	Streams and Rivers	
	REDFIN SHINER (Lythrurus umbratilis)	Streams and Rivers	
	RIVER CARPSUCKER (Carpiodes carpio)	Streams and Rivers	
	RIVER SHINER (Notropis blennius)	Streams and Rivers	
	SHORTNOSE STURGEON (Acipenser brevirostrum (Acipencer brevirostrum)) SILVER CHUB (Macrhybopsis storeriana)	Streams and Rivers Streams and Rivers	
	SILVER CHUB (Macrnybopsis storeriana) SOUTHERN REDBELLY DACE (Phoxinus erythrogaster)	Streams and Rivers Streams and Rivers	
	SPOTTED DARTER (Etheostoma maculatum)	Streams and Rivers	
	SPOTTED GAR (Lepisosteus oculatus)	Streams and Rivers	
	SPOTTED SUCKER (Minytrema melanops)	Streams and Rivers	

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Pennsylvania

Taxa	Common Name	Habitat	
	STREAMLINE CHUB (Erimystax dissimilis)	Streams and Rivers	
	TADPOLE MADTOM (Noturus gyrinus)	Streams and Rivers	
	THREESPINE STICKLEBACK (Gasterosteus aculeatus)	Streams and Rivers	
	TIPPECANOE DARTER (Etheostoma tippecanoe)	Streams and Rivers	
	TONGUE-TIED MINNOW (Exoglossum laurae)	Streams and Rivers	
	WARMOUTH (Lepomis gulosus)	Streams and Rivers	53
Mammal	Eastern Spotted Skunk (Spilogale putorius)	Sandy Beach Habitat	
	Rock Vole (Microtus chrotorrhinus)	Streams and Rivers	
	West Virginia Water Shrew (Sorex palustris punctulatus)	Streams and Rivers	3
Reptile	Blanding's Turtle (Emydoidea blandingii (Emys blandingii))	Streams and Rivers, emergent wetlands/marshes	
	Bog Turtle (Clemmys muhlenbergii)	emergent wetlands/marshes	
	Eastern Massasauga (Sistrurus c. catenatus (Sistrurus catenatus catenatus))	emergent wetlands/marshes	
	Eastern Ribbon Snake (Thamnophis sauritus (Thamnophis sauritus sauritus))	Streams and Rivers, emergent wetlands/marshes	
	Kirtland's Snake (Clonophis kirtlandii)	Streams and Rivers, emergent wetlands/marshes, Sandy Beach Habitat	
	Mountain Earth Snake-R (Virginia valeriae pulchra)	Sandy Beach Habitat	
	Queen Snake (Regina septemvittata)	Streams and Rivers, emergent wetlands/marshes	
	Redbelly Turtle (Pseudemys rubriventris)	Streams and Rivers, emergent wetlands/marshes	
	Shorthead Garter Snake (Thamnophis brachystoma)	Streams and Rivers, emergent wetlands/marshes	
	Spotted Turtle (Clemmys guttata)	Seasonal Wetlands, emergent wetlands/marshes	
	Wood Turtle (Glyptemys insculpta (previously called Clemmys insculpta))	Streams and Rivers, Sandy Beach Habitat, emergent wetlands/marshes	10
Total	93		

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Rhode Island

Taxa	Name	Habitat	
Bird	American bittern (Botaurus lentiginosus (Botaurus lentigir	Emergent Marsh Deep	
	American black duck (Anas rubripes)	Emergent Marsh Deep	
	bald eagle (Haliaeetus leucocephalus (Haliaeetus leucopl	Lacustrine Oligotrophic Lake/Pond	
	blue-winged teal (Anas discors)	Emergent Marsh Deep	
	Canada warbler (Wilsonia canadensis)	Forested Coniferous Wetland Unspecified	
	common moorhen (<i>Gallinula chloropus</i>)	Emergent Marsh Deep	
	eastern kingbird (<i>Tyrannus tyrannus</i>)	River Lower Perennial	
	green-winged teal (Anas crecca)	Emergent Marsh Deep	
	least bittern (Ixobrychus exilis)	Emergent Marsh Deep	
	marsh wren (Cistothorus palustris)	Emergent Marsh Deep	
	northern waterthrush (Seiurus noveboracensis)	Forested Coniferous Wetland Unspecified	
	orchard oriole (Icterus spurius)	River Lower Perennial	
	osprey (<i>Pandion haliaetus</i>)	Lacustrine Oligotrophic Lake/Pond	
	pied-billed grebe (Podilymbus podiceps)	Emergent Marsh Deep	
	prothonotary warbler (Protonotaria citrea)	Forested Deciduous Red Maple Swamp	
	solitary sandpiper (<i>Tringa solitaria</i>)	Freshwater Beaches	
	sora (Porzana carolina)	Emergent Marsh Deep	
	willow flycatcher (Empidonax traillii)	Shrub Swamp Alder	
	Wilson's snipe (Gallinago delicata)	Emergent Marsh Shallow	19
Butterfly/Moths	(Aeshna mutata (Aeshna mutate))	Coastal Plain Pondshores and Quagmires	
,	crimson-ringed whiteface (Leucorrhinia glacialis)	Coastal Plain Pondshores and Quagmires	
	southern sprite (Nehalennia integricollis)	Coastal Plain Pondshores and Quagmires	
	(Exyra fax)	Emergent Fen, Bog	
	(Fagitana littera)	Emergent Fen, Bog	
	Bog Tiger Moth (an arctiid moth) (<i>Grammia speciosa</i>)	Emergent Fen, Bog	
	(Homophoberia cristata)	Emergent Fen, Bog	
	(lodopepla u-album)	Emergent Fen, Bog	
	bog copper (<i>Lycaena epixanthe</i>)	Emergent Fen, Bog	
	coastal swamp metarranthis (<i>Metarranthis pilosaria</i>)	Emergent Fen, Bog	
	(Oligia minuscule)	Emergent Fen, Bog	
	pitcher plant borer (<i>Papaipema appassionata</i>)	Emergent Fen, Bog	
	(Scopula purata)	Emergent Fen, Bog	
	ringed boghaunter (Williamsonia lintneri)	Emergent Fen, Bog	
	meadow fritillary (<i>Boloria bellona</i>)	Emergent Marsh Shallow	
	bronze copper (<i>Lycaena hyllus</i>)	Emergent Marsh Shallow	
	(Macrochilo louisiana)	Emergent Marsh Shallow	
	(Meropleon diversicolor)	Emergent Marsh Shallow	
	mulberry wing (Poanes massasoit)	Emergent Marsh Shallow	
	Acadian hairstreak (Satyrium acadicum)	Emergent Marsh Shallow	
	northern pearly eye (<i>Enodia anthedon</i>)	Forested Deciduous Wetland Unspecified	
	(Plagodis kuetzingi)	Forested Deciduous Wetland Unspecified	
	Hessel's hairstreak (Callophrys hesseli)	Forested Wetland	
	noctuid moth (<i>Lithophane baileyi</i>)	Forested Wetland	
	thaxter's pinon moth (<i>Lithophane thaxteri</i>)	Forested Wetland	
	pale greeen pinion moth (<i>Lithophane viridipallens</i>)	Forested Wetland	
	(Capis curvata)	Freshwater Wetland Unspecified	
	(Cepphis decoloraria)	Freshwater Wetland Unspecified	
	(Conservula anodonta)	Freshwater Wetland Unspecified	
	harvester (Feniseca tarquinius)	Shrub Swamp Alder	
	(Darapsa versicolor)	Shrub Swamp Water Willow	31
Dragon/Damselflies	American rubyspot (<i>Hetaerina americana</i>)	River Upper Perennial	
ago., _ ao	arrowhead spiketail (<i>Cordulegaster obliqua</i>)	Springs	
	backwater bluet (Enallagma weewa)	River Blackwater Creek	
	brook snaketail (<i>Ophiogomphus aspersus</i>)	River Upper Perennial	
	comet darner (<i>Anax longipes</i>)	Permanent Fishless Pond	
	common sanddragon (<i>Progomphus obscurus</i>)	Lacustrine Oligotrophic Lake/Pond	
	coppery emerald (Somatochlora georgiana)	River Blackwater Creek	
	delta-spotted spiketail (Cordulegaster diastatops)	River Upper Perennial	
	lyre-tipped spreadwing (Lestes unguiculatus)	Semi-permanently Flooded Pond	
	Maine snaketail (Ophiogomphus mainensis)	River Upper Perennial	
	mustached clubtail (<i>Gomphus adelphus</i>)	River Upper Perennial	
	pine barrens bluet (Enallagma recurvatum)	Permanent Fishless Pond	
<u> </u>	pine pariens bluet (Enallagina reculvatum)	i Gimanent i Ionicoo i UNU	

Appendix A: Freshwater Species of Greatest Conservation Need in the Northeast Study Area, Rhode Island

Taxa	Name	Habitat		
	scarlet bluet (Enallagma pictum)	Permanent Fishless Pond		
	southern pygmy clubtail (Lanthus vernalis)	River Upper Perennial		
	spine-crowned clubtail (Gomphus abbreviatus)	River Upper Perennial		
	taper-tailed darner (Gomphaeschna antilope)	Emergent Fen, Bog		
	twin-spotted spiketail (Cordulegaster maculata)	River Upper Perennial		
	zebra clubtail (Stylurus scudderi)	River Upper Perennial	18	
Beetles	(Agonum darlingtoni)	Shrub Bog Unspecified	1	
Reptiles	eastern ribbon snake (Thamnophis sauritus (Thamnophis	Emergent Fen, Bog		
•	spotted turtle (Clemmys guttata)	Emergent Fen, Bog		
	wood turtle (Glyptemys insculpta (previously called Clemr		3	
Amphibians	Northern Dusky Salamander (Dusky Salamander) (Desm	Springs		
	eastern newt (Notophthalmus viridescens)	Semi-permanently Flooded Pond		
	eastern spadefoot (Scaphiopus holbrookii)	Seasonally Flooded Pond		
	four-toed salamander (Hemidactylium scutatum)	Forested Deciduous Wetland Unspecified		
	fowler's toad (Bufo fowleri (Bufo woodhousii fowleri))	Semi-permanently Flooded Pond		
	marbled salamander (Ambystoma opacum)	Seasonally Flooded Pond		
	northern leopard frog (Rana pipiens)	Seasonally Flooded Pond		
	spring salamander (Gyrinophilus porphyriticus (Gyrinophil			
	wood frog (Rana sylvatica)	Seasonally Flooded Pond	9	
Mammals	common water shrew (Sorex palustris)	River Upper Perennial		
manniais	southern bog lemming (Synaptomys cooperi)	Emergent Marsh Shallow	2	
Mollusks	alewife floater (<i>Anodonta implicata</i>)	River Lower Perennial		
WOIIUSKS	brook floater (<i>Alasmidonta varicosa</i>)	River Lower Perennial		
	eastern pearlshell (<i>Margaritifera margaritifera</i>)	River Upper Perennial		
	eastern pond mussel (<i>Ligumia nasuta</i>)	Lacustrine Oligotrophic Lake/Pond		
	lampmussel (<i>Lampsilis radiata</i>)	Lacustrine Oligotrophic Lake/Pond		
	squawfoot (Strophitus undulatus (Strophitus undulates))	River Lower Perennial		
	tidewater mucket (<i>Leptodea ochracea</i>)	Lacustrine Oligotrophic Lake/Pond		
	triangle floater (Alasmidonta undulata)	River Lower Perennial	8	
Fish	alewife (Alosa pseudoharengus)	River Lower Perennial	0	
ГІЗП	American brook lamprey (<i>Lampetra appendix</i>)			
	American brook lampley (Lampetra appendix) American eel (Anguilla rostrata)	River Upper Perennial River Lower Perennial		
	American shad (Alosa sapidissima)	River Lower Perennial		
	Atlantic menhaden (<i>Brevoortia tyrannus</i>)	anadromous		
	Atlantic salmon (Salmo salar)	River Upper Perennial		
	Atlantic samon (Samo Salar) Atlantic sturgeon (Acipenser oxyrinchus (Acipenser oxyrh			
	Atlantic Tomcod (Tomcod) (MICROGADUS TOMCOD)	anadromous		
	banded sunfish (Enneacanthus obesus)			
	blacknose dace (<i>Rhinichthys atratulus</i>)	Lacustrine Eutrophic Lake/Pond River Upper Perennial		
	blueback herring (Alosa aestivalis)	River Lower Perennial		
	bridle shiner (Notropis bifrenatus)	Lacustrine Eutrophic Lake/Pond		
	brook trout (Salvelinus fontinalis)	River Upper Perennial		
	common shiner (Luxilus cornutus (Luxilus comutus))	River Opper Perennial River Upper Perennial		
	creek chubsucker (<i>Erimyzon oblongus</i>)	River Opper Perennial River Lower Perennial		
	longnose dace (Rhinichthys cataractae)	River Upper Perennial		
		River Lower Perennial		
	rainbow smelt (Osmerus mordax) redbreast sunfish (Lepomis auritus)			
	, ,	River Lower Perennial		
	spottail shiner (<i>Notropis hudsonius</i>)	anadromous	20	
	spottali stilitet (Notropis Huusotilus)	River Lower Perennial	20 111	

Гаха		Common (Latin) Name		Habitat
ertebrates	Birds			Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Floodplain Forests
		American Black Duck (Anas rubripes)	2, 3	Hardwood Swamps, Marshes and Sedge Meadows, Open Peatlands, Shrub Swamps
		Bald Eagle (Haliaeetus leucocephalus (Haliaeetus		Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Aquatic: Man-Made Water
		leucophalus))	2. 3	Bodies, Floodplain Forests, Hardwood Swamps, Marshes and Sedge Meadows
		Black Tern (Chlidonias niger)	1. 3	Marshes and Sedge Meadows, Shrub Swamps
			., -	Aquatic: Fluvial, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Aquatic: Ma
				Made Water Bodies, Floodplain Forests, Grasslands and Hedgerows, Hardwood Swamps, Marshes and Sedge Meadows, Shrub
		Blue-winged Teal (Anas discors)		Swamps. Wet Shores
		Common Loon (Gavia immer)	2. 3	Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Man-Made Water Bodies
		Common Tern (Sterna hirundo)	1, 2	Aquatic: Lake Champlain
		Continon Terri (Sterna fill undo)	1, 2	Aquatic: Fluvial, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Aquatic: Man-Made Water Bodies,
		Lesser yellowlegs (<i>Tringa flavipes</i>)		Grasslands and Hedgerows, Marshes and , Sedge Meadows, Open Peatlands, Shrub Swamps, Wet Shores
		Lessel yellowlegs (Tilliga llavipes)	-	Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower C
				River, Building or Structure, Cliffs and Talus, Floodplain Forests, Hardwood Swamps, Marshes and Sedge Meadows, Open Peatlar
		Opprov (Bandian haliantus)	0 0	Outcrops and Alpine, Seeps and Pools, Shrub Swamps, Softwood Swamps, Upland Shores, Wet Shores
		Osprey (Pandion haliaetus)	2, 3	
				Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower C
		Peregrine Falcon (Falco peregrinus)	2, 3	River, Building or Structure, Cliffs and Talus, Grasslands and Hedgerows, Lawns, Gardens, and Row Crops, Mine, Upland Shores
				Aquatic: Fluvial, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Floodplain Forests, Hardwood Swamp
		Pied-billed Grebe (Podilymbus podiceps)	1, 2, 3	Marshes and Sedge Meadows, Open Peatlands, Seeps and Pools, Shrub Swamps, Softwood Swamps, Wet Shores
	Fish	American brook lamprey (Lampetra appendix)	1, 2, 3	*
		American eel (Anguilla rostrata)	3	
		American shad (Alosa sapidissima)	1	
		Artic Char (Sunapee Trout) (Salvelinus alpinus oquassa)	3	
		, who ones (compos front) (currenting alpinas oquassa)	ľ	
		Atlantic salmon-anadromous (Salmo salar (anadromous))	2	
		Atlantic Salmon-anauromous (Salmo Salar (anauromous))		
		Atlantic salmon-landlocked (Salmo salar (landlocked))	2	
			J	
		Blackchin shiner (Notropis heterodon)		
		Blacknose shiner (Notropis heterolepis)	2	
		Blueback herring (CT River only) (Alosa aestivalis)	3	
		Brassy minnow (Hybognathus hankinsoni)		
		Bridle shiner (Notropis bifrenatus)	1, 2, 3	
		Brook trout (naturally reproducing populations only)		
		(Salvelinus fontinalis (naturally reproducing pops))	3	
		Channel darter (Percina copelandi)	1	
		Cisco (Lake Herring) (Coregonus artedi)		
		Eastern sand darter (Ammocrypta pellucida (Ammocrypta		
		pellucidum))	1	
		Greater redhorse (Moxostoma valenciennesi)	3	
		Lake sturgeon (Acipenser fulvescens)	1, 3	
		Lake trout (naturally reproducing populations only)		
		(Salvelinus namaycush (naturally reproducing pop))		
		Lake whitefish (Coregonus clupeaformis (Coregonus		
		clupeaforms))		
		Mooneye (<i>Hiodon tergisus</i>)	1, 3	
		Mottled sculpin (Cottus bairdi)	1, 0	
		Muskellunge (Esox masquinongy)	-	
		Northern brook lamprey (Ichthyomyzon fossor)	1, 3 *	
			1, 3 "	
		Quillback (Carpiodes cyprinus)	3	
		Redbreast sunfish (Lepomis auritus)	<u> </u>	
		Redfin pickerel (Esox americanus (Esox americanus	L	
		americanus))	2	
		Round whitefish (Prosopium cylindraceum (Prosopium	ı	
		cylindraceus))	1, 2, 3	
		Sauger (Sander canadense)	3	
		Sea lamprey (CT River only) (Petromyzon marinus (CT		
		river only))	*	
		Shorthead redhorse (Moxostoma macrolepidotum)		
		Silver lamprey (Ichthyomyzon unicuspis)	1, 3*	
		Silver redhorse (Moxostoma anisurum)		
		Stonecat (Noturus flavus)		
	Mammals	Eastern pipistrelle (Pipistrellus subflavus)	2	River, Building or Structure, Floodplain Forests, Hardwood Swamps, Mine, Subterranean, Wet Shores
	iwammais	Zastem pipistrene (i ipistrenus sabitavas)	r	Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower C
				Projection - Terriar, regulation Lacustring, requality, Large Orientplants, regulation Large Lake Orientplant Hibs below Palls, Aquatic Lower C
				River, Aquatic: Man-Made Water Bodies, Grasslands and Hedgerows, Marshes and Sedge Meadows, Northern Hardwood, Oak-P
		Hoary bat (Lasiurus cinereus)	1, 3	Northern Hardwood, Open Peatlands, Shrub Swamps, Spruce Fir Northern Hardwood, Wet Shores
			1	Aquatic: Lacustrine, Building or Structure, Marshes and Sedge Meadows, Mine, Northern Hardwood, Oak-Pine Northern Hardwood
		Little brown bat (Myotis lucifugus)	1	Open Peatlands, Shrub Swamps, Spruce Fir Northern Hardwood, Subterranean, Wet Shores
			1	Aquatic: Man-Made Water Bodies, Early Succession Boreal Hardwoods, Early Succession Northern Hardwoods, Early Succession
			ı	Upland Oak, Grasslands and Hedgerows, Marshes and Sedge Meadows, Northern Hardwood, Oak-Pine Northern Hardwood, Spru
		Long-tailed weasel (Mustela frenata)		Northern Hardwood, Wet Shores

Taxa		Common (Latin) Name		Habitat
			i	
				Aquatic: Fluvial, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Cliffs and Talus, Early Succession Boreal Conifers, Early Succession Boreal Hardwoods, Early Succession Other Types, Early Succession Prine and Hemlock, Early Succession Spruce-Fir, Early Succession Upland Oak, Floodplain Forests, Grasslands and Hedgerows, Hardwood Swamps, Northern Hardwood, Oak-Pine
		Masked shrew (Cinereus) (Sorex cinereus)		narowood swamps, Northern Hardwood, Oak-Prine Northern Hardwood, Open Peatlands, Outcrops and Alpine, Seeps and Pools, Shrub Swamps, Softwood Swamps, Spruce Fir Northern Hardwood, Upland Shores, Wet Shores Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT
		Mink (<i>Mustela vison</i>)		River, Floodplain Forests, Hardwood Swamps, Marshes and Sedge Meadows, Open Peatlands, Seeps and Pools, Shrub Swamps, Softwood Swamps, Wet Shores
		Muskrat (Ondatra zibethicus)		Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Aquatic: Man-Made Water Bodies, Marshes and Sedge Meadows
		Northern river otter (Lutra canadensis)		Aquatic: Fluvial, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River
		Eastern Red bat (Lasiurus borealis)	4 0 0	Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Aquatic: Man-Made Water Bodies, Grasslands and Hedgerows, Northern Hardwood, Oak-Pine Northern Hardwood, Northern Hardwood
		Water shrew (Sorex palustris)	1, 2, 3	Aquatic: Fluvial, Floodplain Forests, Marshes and Sedge Meadows, Open Peatlands, Shrub Swamps, Spruce Fir , Northern Hardwood, Wet Shores
	Reptile & Amphibians		4.0	
	repute a Amphibians	Blue-spotted Salamander (<i>Ambystoma laterale</i>) Brown Snake (<i>Storeria dekayi</i>)	1, 3	Hardwood, Open Peatlands, Seeps and Pools, Shrub Swamps, Softwood Swamps, Spruce Fir Northern Hardwood Aquatic: Man-Made Water Bodies, Early Succession Northern Hardwoods, Floodplain Forests, Grasslands and Hedgerows, Hardwood Swamps, Lawns, Gardens, and Row Crops, Marshes and Sedge Meadows, Northern Hardwood, Oak-Pine Northern Hardwood, Open Peatlands, Seeps and Pools, Shrub Swamps
		Common Mudpuppy (Necturus maculosus)	2	Aquatic: Fluvial, Aquatic: Lacustrine, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Lower CT River, Aquatic: Man-Made Water Bodies
			3	Aquatic: Lacustrine, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Man-Made Water Bodies, Marshes and Sedge
		Stinkpot (Common Musk Turtle) (Sternotherus odoratus) Eastern Ribbon Snake (Thamnophis sauritus	l	Meadows, Shrub Swamps Aquatic: Man-Made Water Bodies, Cliffs and Talus, Grasslands and Hedgerows, Marshes and Sedge Meadows, Oak-Pine Northern
		(Thamnophis sauritus sauritus))	1, 2, 3	Hardwood, Seeps and Pools, Shrub Swamps Aquatic: Lacustrine, Aquatic: Man-Made Water Bodies, Early Succession Northern Hardwoods, Early Succession Pine and Hemlock, Early Succession Upland Oak, Floodplain Forests, Grasslands and Hedgerows, Hardwood Swamps, Lawns, Gardens, and Row Crops, Marshes and Sedge Meadows, Northern Hardwood, Oak-Pine Northern Hardwood, Seeps and Pools, Shrub Swamps, Upland Shores,
		Fowler's Toad (Bufo fowleri (Bufo woodhousii fowleri))	2, 3	Wet Shores
		Jefferson Salamander (Ambystoma jeffersonianum)	1, 2, 3	Aquatic: Man-Made Water Bodies, Northern Hardwood, Oak-Pine Northern Hardwood, Seeps and Pools, Spruce Fir Northern Hardwood Aquatic: Lacustrine, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Man-Made Water Bodies, Marshes and Sedge
		Northern Water Snake (Nerodia sipedon)		Meadows, Shrub Swamps Aquatic: Lacustrine, Aquatic: Lake Champlain, Aquatic: Large Lake Champlain Tribs Below Falls, Marshes and Sedge Meadows, Shrub
		Spiny Softshell (Turtle) (Apalone spinifera)	3	Swamps, Upland Shores, Wet Shores
		Spotted Salamander (Ambystoma maculatum)		Aquatic: Man-Made Water Bodies, Floodplain Forests, Hardwood Swamps, Marshes and Sedge Meadows, Northern Hardwood, Oak- Pine Northern Hardwood, Open Peatlands, Seeps and Pools, Shrub Swamps, Softwood Swamps, Spruce Fir Northern Hardwood Aquatic: Lacustrine, Aquatic: Man-Made Water Bodies, Hardwood Swamps, Marshes and Sedge Meadows, Northern Hardwood, Oak-
		Spotted Turtle (Clemmys guttata) Western (Striped) Chorus Frog (Pseudacris triseriata)	1, 2, 3 3	Aquatic: Lacustrille, Aquatic: Man-Made Water Boules, Harrowood Swarips, Marshes and Sedge Meadows, Northern Hardwood, Oak- Pine Northern Hardwood, Open Peatlands, Seeps and Pools, Shrub Swamps, Softwood Swamps, Wet Shores Aquatic: Man-Made Water Bodies, Marshes and Sedge Meadows, Shrub Swamps
		Wood Turtle (Glyptemys insculpta (previously called Qlemmys insculpta)	1, 2	Aquatic: Fluvial, Aquatic: Large Lake Champlain Tribs Below Falls, Aquatic: Man-Made Water Bodies, Early Succession Northern Hardwoods, Early Succession Other Types, Early Succession Pine and Hemlock, Early Succession Upland Oak, Floodplain Forests, Grasslands and Hedgerows, Hardwood Swamps, Marshes and Sedge Meadows, Northern Hardwood, Oak-Pine Northern Hardwood, Open Peatlands, Seeps and Pools, Shrub Swamps, Softwood Swamps, Spruce Fir Northern Hardwood,
Invertebrates Odonata (Dragonflies & Damselflies)	Bog/Fen/Swamp/Marshy Pond Odonata Group	Black Meadowhawk (Sympetrum danae)		
		Citrine Forktail (Ischnura hastata) Comet darner (Anax longipes)		
		Cyrano Darner (Nasiaeschna pentacantha) Delicate Emerald (Somatochlora franklini)		
		Ebony Boghaunter (Williamsonia fletcheri)		
		Forcipate Emerald (Somatochlora forcipata) Green-striped Darner (Aeshna verticalis)	<u> </u>	
		Harlequin Damer (Gomphaeschna furcillata) Kennedy's Emerald (Somatochlora kennedyi		
		(Somatochlora kennedyis)) Mottled Darner (Aeshna clepsydra)		
		Painted skimmer (Libellula semifasciata) Petite Emerald (Dorocordulia lepida)		
		Ski-tailed Emerald (Somatochlora elongata)		
		Southern Spreadwing (Lestes disjunctus australis)		
		Spatterdock Darner (Aeshna mutata (Aeshna mutate)) Subarctic Bluet (Coenagrion interrogatum)		
		Subarctic Darner (Aeshna subarctica) Swamp Darner (Epiaeschna heros)		
		Zigzag Damer (Aeshna sitchensis)		
	Seep/Rivulet Odonata Group Lakes/Ponds Odonata Group	Gray petaltail (Tachopteryx thoreyi) Lake Emerald (Somatochlora cingulata)		
		Lilypad Forktail (Ischnura kellicotti)		
		New England bluet (Enallagma laterale) Ringed Emerald (Somatochlora albicincta)	 	
	1	Slender Bluet (Enallagma traviatum)		

a		Common (Latin) Name		Habitat
		Vernal Bluet (Enallagma vernale)		
		White Corporal (Libellula exusta)		
	River/Stream Odonata Group	American rubspot (Hetaerina americana)		
		Blue-fronted dancer (Argia apicalis) Brook snaketail (Ophiogomphus aspersus)		
		Cobra clubtail (Gomphus vastus)		
		Maine snaketail (Ophiogomphus mainensis)		
		Rainbow bluet (Enallagma antennatum)		
		Rapids clubtail (Gomphus quadricolor) Riffle snaketail (Ophiogomphus carolus)		
		Rusty snaketail (Ophiogomphus rupinsulensis)		
		Skillet clubtail (Gomphus ventricosus)		
		Spine-crowned clubtail (Gomphus abbreviatus)		
		Objection about the company (Newson and State Company)		
		Stygian shadowdragon (Neurocordulia yamaskanensis) Stylurus amnicola (Riverine Clubtail)		
		Zebra Clubtail (Stylurus scudderi)		
Lepidoptera (Butterflies & Moths)	Wetland Butterflies Group	Black dash (Euphyes conspicua)		
		Bog copper (Lycaena epixanthe)		
		Broad-winged skipper (Poanes viator)		
		Dion skipper (Euphyes dion) Jutta arctic (Oeneis jutta)		
		Mulberry wing (Poanes massasoit)		
		Two-spotted skipper (Euphyes bimacula (Euphys		
		bimacula))		
	Mayflies/Stoneflies/Caddisflies Group	A Caddisfly (Rhyacophila brunnea)		
		A Mayfly (Ameletus browni) A Mayfly (Ameletus tertius)		
		A Mayfly (Baetisca rubescens)		
		A Mayfly (Eurylophella bicoloroides)		
		A Stonefly (Alloperla voinae)		
		Roaring Brook Mayfly (Epeorus frisoni) Tomah Mayfly (Siphlonisca aerodromia)		
Mollusca	Freshwater Mussels Group	Alewife floater (Anodonta implicata)		
		Black sandshell (Ligumia recta)		
		Brook floater (Alasmidonta varicosa)		
		Creek heelsplitter (Lasmigona compressa)		
		Cylindrical papershell (Anodontoides ferussacianus) Dwarf wedgemussel (Alasmidonta heterodon)		
		Eastern pearlshell (Margaritifera margaritifera)		
		Elktoe (Alasmidonta marginata)		
		Fluted-shell (Lasmigona costata)		
		Fragile papershell (Leptodea fragilis) Giant floater (Pyganodon grandis)		
		Pink heelsplitter (Potamilus alatus)		
		Pocketbook (Lampsilis ovata)		
	Freshwater Snails Group	Boreal marstonia (Marstonia (Pyrgulopsis) decepta)		
		Buffalo pebblesnail (Gillia altilis)		
		Canadian duskysnail (Amnicola (Lyogyrus) walkeri) Country fossaria (Fossaria rustica)		
		Disco gyro (Gyraulus circumstriatus)		
		Fingered valvata (Fringed valvata) (Valvata lewisi)		
		Liver elimia (Goniobasis livescens)		
		Mammoth lymnaea (Bulimnea megastoma)		
		Mossy valvata (Valvata sincera) Pupa duskysnail (Lyogyrus (Amnicola) pupoidea)		
		Sharp hornsnail (Pleurocera acuta)		
		Spindle lymnaea (Acella haldemani)		
		Squat duskysnail (Amnicola (Lyogyrus) grana)		
	Crustopopo Croup	Star gyro (Gyraulus crista)	.	
	Crustaceans Group	An Amphipod (Diporeia hoyi) Appalachian brook crayfish (Cambarus bartonii		
		(Camburus bartonii))		
		Taconic Cave Amphipod (Stygobromus borealis)		