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# APPENDIX 1.A

## SGCN LIST, BY ECOLOGICAL GROUP

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## DE SGCN Mammals (23)

<u>Scientific Name</u>	<u>Common Name</u>
<b>Cave Bats (5)</b>	
<i>Eptesicus fuscus</i>	Big Brown Bat
<i>Myotis leibii</i>	Eastern Small-footed Bat
<i>Myotis lucifugus</i>	Little Brown Bat
<i>Myotis septentrionalis</i>	Northern Long-eared Bat
<i>Perimyotis subflavus</i>	Tri-colored Bat
<b>Marine Mammals (8)</b>	
<i>Balaenoptera borealis</i>	Sei Whale
<i>Balaenoptera musculus</i>	Blue Whale
<i>Balaenoptera physalus</i>	Fin Whale
<i>Eubalaena glacialis</i>	North Atlantic Right Whale
<i>Megaptera novaeangliae</i>	Humpback Whale
<i>Phocoena phocoena</i>	Harbor Porpoise
<i>Physeter macrocephalus</i>	Sperm Whale
<b>Small Mammals (4)</b>	
<i>Condylura cristata</i>	Star-nosed Mole
<i>Cryptotis parva</i>	North American Least Shrew
<i>Sorex fontinalis</i>	Maryland Shrew
<i>Sciurus niger cinereus</i>	Delmarva Fox Squirrel
<b>Carnivores (3)</b>	
<i>Lynx rufus</i>	Bobcat
<i>Mustela frenata</i>	Long-tailed Weasel
<i>Neovison vison</i>	Mink
<b>Tree Bats (4)</b>	
<i>Lasionycteris noctivagans</i>	Silver-haired Bat
<i>Lasiurus borealis</i>	Eastern Red Bat
<i>Lasiurus cinereus</i>	Hoary Bat
<i>Nycticeius humeralis</i>	Evening Bat



Big Brown Bat; USFWS

## APPENDIX 1.A: SGCN List, by Ecological Group

<b>DE SGCN Birds (184)</b>	
<u>Scientific Name</u>	<u>Common Name</u>
<b>Aerial Insectivores (6)</b>	
<i>Caprimulgus carolinensis</i>	Chuck-will's-widow
<i>Caprimulgus vociferous</i>	Eastern Whip-poor-will
<i>Chaetura pelagica</i>	Chimney Swift
<i>Chordeiles minor</i>	Common Nighthawk
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow
<i>Riparia riparia</i>	Bank Swallow
<b>Bay Waterfowl (8)</b>	
<i>Aythya affinis</i>	Lesser Scaup
<i>Aythya americana</i>	Redhead
<i>Aythya marila</i>	Greater Scaup
<i>Aythya valisineria</i>	Canvasback
<i>Branta bernicla</i>	Brant
<i>Bucephala albeola</i>	Bufflehead
<i>Bucephala clangula</i>	Common Goldeneye
<i>Oxyura jamaicensis</i>	Ruddy Duck
<b>Beach-nesting Birds (5)</b>	
<i>Charadrius melodus</i>	Piping Plover
<i>Haematopus palliatus</i>	American Oystercatcher
<i>Sterna hirundo</i>	Common Tern
<i>Sternula antillarum</i>	Least Tern
<i>Rynchops niger</i>	Black Skimmer
<b>Migratory Terns (4)</b>	
<i>Chlidonias niger</i>	Black Tern
<i>Gelochelidon nilotica</i>	Gull-billed Tern
<i>Sterna dougallii</i>	Roseate Tern
<i>Thalasseus sandvicensis</i>	Sandwich Tern
<b>Colonial Waterbirds</b>	
<b>Colonial Waterbirds – Cormorants (1)</b>	
<i>Phalacrocorax auritus</i>	Double-crested Cormorant
<b>Colonial Waterbirds – Herons (9)</b>	
<i>Ardea alba</i>	Great Egret
<i>Ardea Herodias</i>	Great Blue Heron
<i>Bubulcus ibis</i>	Cattle Egret
<i>Egretta caerulea</i>	Little Blue Heron

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<i>Egretta thula</i>	Snowy Egret
<i>Egretta tricolor</i>	Tricolored Heron
<i>Nyctanassa violacea</i>	Yellow-crowned Night-Heron
<i>Nycticorax nycticorax</i>	Black-crowned Night-Heron
<i>Plegadis falcinellus</i>	Glossy Ibis
<b>Colonial Waterbirds – Pelicans (1)</b>	
<i>Pelecanus occidentalis</i>	Brown Pelican
<b>Colonial Waterbirds - Saltmarsh Nesting (4)</b>	
<i>Larus argentatus</i>	Herring Gull
<i>Larus marinus</i>	Great Black-backed Gull
<i>Leucophaeus atricilla</i>	Laughing Gull
<i>Sterna forsteri</i>	Forster's Tern
<b>Forest Birds</b>	
<b>Forest Edge Birds (5)</b>	
<i>Colaptes auratus</i>	Northern Flicker
<i>Icterus galbula</i>	Baltimore Oriole
<i>Myiarchus crinitus</i>	Great Crested Flycatcher
<i>Tyrannus tyrannus</i>	Eastern Kingbird
<i>Vireo gilvus</i>	Warbling Vireo
<b>Forest Interior Birds (9)</b>	
<i>Buteo lineatus</i>	Red-shouldered Hawk
<i>Buteo platypterus</i>	Broad-winged Hawk
<i>Certhia americana</i>	Brown Creeper
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak
<i>Piranga olivacea</i>	Scarlet Tanager
<i>Piranga rubra</i>	Summer Tanager
<i>Setophaga cerulea</i>	Cerulean Warbler
<i>Setophaga dominica</i>	Yellow-throated Warbler
<i>Vireo flavifrons</i>	Yellow-throated Vireo
<b>Forest Interior Understory Birds (10)</b>	
<i>Bonasa umbellus</i>	Ruffed Grouse
<i>Catharus fuscescens</i>	Veery
<i>Empidonax virescens</i>	Acadian Flycatcher
<i>Geothlypis Formosa</i>	Kentucky Warbler
<i>Helmitheros vermivorum</i>	Worm-eating Warbler
<i>Hylocichla mustelina</i>	Wood Thrush
<i>Mniotilta varia</i>	Black-and-white Warbler
<i>Parkesia motacilla</i>	Louisiana Waterthrush
<i>Setophaga citrina</i>	Hooded Warbler



APPENDIX 1.A: SGCN List, by Ecological Group

<i>Setophaga ruticilla</i>	American Redstart
<b>Forest Interior Wetlands Birds (3)</b>	
<i>Limnothlypis swainsonii</i>	Swainson's Warbler
<i>Protonotaria citrea</i>	Prothonotary Warbler
<i>Setophaga americana</i>	Northern Parula
<b>Pine Specialist Birds (2)</b>	
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker
<i>Sitta pusilla</i>	Brown-headed Nuthatch
<b>Freshwater Marsh Birds (9)</b>	
<i>Actitis macularius</i>	Spotted Sandpiper
<i>Botaurus lentiginosus</i>	American Bittern
<i>Gallinago delicata</i>	Wilson's Snipe
<i>Himantopus mexicanus</i>	Black-necked Stilt
<i>Ixobrychus exilis</i>	Least Bittern
<i>Podilymbus podiceps</i>	Pied-billed Grebe
<i>Porzana carolina</i>	Sora
<i>Rallus elegans</i>	King Rail
<i>Rallus limicola</i>	Virginia Rail
<b>Freshwater Waterfowl (7)</b>	
<i>Anas acuta</i>	Northern Pintail
<i>Anas americana</i>	American Wigeon
<i>Anas discors</i>	Blue-winged Teal
<i>Anas platyrhynchos</i>	Mallard
<i>Branta canadensis</i>	Canada Goose (Atlantic migratory population only)
<i>Cygnus columbianus</i>	Tundra Swan
<i>Lophodytes cucullatus</i>	Hooded Merganser
<b>Grassland Birds (11)</b>	
<i>Ammodramus henslowii</i>	Henslow's Sparrow
<i>Ammodramus savannarum</i>	Grasshopper Sparrow
<i>Bartramia longicauda</i>	Upland Sandpiper
<i>Dolichonyx oryzivorus</i>	Bobolink
<i>Eremophila alpestris</i>	Horned Lark
<i>Falco sparverius</i>	American Kestrel
<i>Lanius ludovicianus</i>	Loggerhead Shrike
<i>Passerculus sandwichensis</i>	Savannah Sparrow
<i>Pooecetes gramineus</i>	Vesper Sparrow
<i>Spiza americana</i>	Dickcissel
<i>Sturnella magna</i>	Eastern Meadowlark
<b>Marine Waterfowl (5)</b>	

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<i>Clangula hyemalis</i>	Long-tailed Duck
<i>Melanitta americana</i>	American Scoter
<i>Melanitta fusca</i>	White-winged Scoter
<i>Melanitta perspicillata</i>	Surf Scoter
<i>Somateria mollissima</i>	Common Eider
<b>Migratory Shorebirds (19)</b>	
<i>Arenaria interpres</i>	Ruddy Turnstone
<i>Calidris alba</i>	Sanderling
<i>Calidris alpina</i>	Dunlin
<i>Calidris canutus</i>	Red Knot
<i>Calidris fuscicollis</i>	White-rumped Sandpiper
<i>Calidris melanotos</i>	Pectoral Sandpiper
<i>Calidris pusilla</i>	Semipalmated Sandpiper
<i>Limnodromus griseus</i>	Short-billed Dowitcher
<i>Limosa fedoa</i>	Marbled Godwit
<i>Limosa haemastica</i>	Hudsonian Godwit
<i>Numenius phaeopus</i>	Whimbrel
<i>Phalaropus tricolor</i>	Wilson's Phalarope
<i>Pluvialis squatarola</i>	Black-bellied Plover
<i>Recurvirostra americana</i>	American Avocet
<i>Tringa flavipes</i>	Lesser Yellowlegs
<i>Tringa melanoleuca</i>	Greater Yellowlegs
<i>Tringa solitaria</i>	Solitary Sandpiper
<i>Pluvialis dominica</i>	American Golden-Plover
<i>Tryngites subruficollis</i>	Buff-breasted Sandpiper
<b>Neotropical Passage Migrants (11)</b>	
<i>Cardellina Canadensis</i>	Canada Warbler
<i>Catharus bicknelli</i>	Bicknell's Thrush
<i>Contopus cooperi</i>	Olive-sided Flycatcher
<i>Empidonax minimus</i>	Least Flycatcher
<i>Setophaga caeruleascens</i>	Black-throated Blue Warbler
<i>Setophaga castanea</i>	Bay-breasted Warbler
<i>Setophaga fusca</i>	Blackburnian Warbler
<i>Setophaga pensylvanica</i>	Chestnut-sided Warbler
<i>Setophaga tigrina</i>	Cape May Warbler
<i>Setophaga virens</i>	Black-throated Green Warbler
<i>Vermivora chrysoptera</i>	Golden-winged Warbler
<b>Pelagic Birds (11)</b>	
<i>Morus bassanus</i>	Northern Gannet

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<i>Oceanodroma castro</i>	Band-rumped Storm-Petrel
<i>Onychoprion anaethetus</i>	Bridled Tern
<i>Pelagodroma marina</i>	White-faced Storm-Petrel
<i>Phalaropus lobatus</i>	Red-necked Phalarope
<i>Puffinus gravis</i>	Great Shearwater
<i>Puffinus griseus</i>	Sooty Shearwater
<i>Puffinus lherminieri</i>	Audubon's Shearwater
<i>Stercorarius longicaudus</i>	Long-tailed Jaeger
<i>Sterna paradisaea</i>	Arctic Tern
<i>Uria lomvia</i>	Thick-billed Murre
<b>Saltmarsh Birds (13)</b>	
<i>Ammodramus caudacutus</i>	Saltmarsh Sparrow
<i>Ammodramus maritimus</i>	Seaside Sparrow
<i>Ammodramus nelsoni</i>	Nelson's Sparrow
<i>Anas rubripes</i>	American Black Duck
<i>Asio flammeus</i>	Short-eared Owl
<i>Circus cyaneus</i>	Northern Harrier
<i>Cistothorus palustris</i>	Marsh Wren
<i>Cistothorus platensis</i>	Sedge Wren
<i>Laterallus jamaicensis</i>	Black Rail
<i>Melospiza georgiana nigrescens</i>	Coastal Plain Swamp Sparrow
<i>Rallus longirostris</i>	Clapper Rail
<i>Tringa semipalmata</i>	Willet
<i>Tyto alba</i>	Barn Owl
<b>Shrubland Birds (10)</b>	
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo
<i>Colinus virginianus</i>	Northern Bobwhite
<i>Empidonax traillii</i>	Willow Flycatcher
<i>Icteria virens</i>	Yellow-breasted Chat
<i>Pipilo erythrophthalmus</i>	Eastern Towhee
<i>Scolopax minor</i>	American Woodcock
<i>Setophaga discolor</i>	Prairie Warbler
<i>Spizella pusilla</i>	Field Sparrow
<i>Toxostoma rufum</i>	Brown Thrasher
<i>Vermivora cyanoptera</i>	Blue-winged Warbler
<b>Wintering Coastal Birds (5)</b>	
<i>Calidris maritima</i>	Purple Sandpiper
<i>Gavia immer</i>	Common Loon
<i>Gavia stellate</i>	Red-throated Loon

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<i>Phalacrocorax carbo</i>	Great Cormorant
<i>Podiceps auritus</i>	Horned Grebe
<b>Wintering Passerines (7)</b>	
<i>Carpodacus purpureus</i>	Purple Finch
<i>Euphagus carolinus</i>	Rusty Blackbird
<i>Passerella iliaca</i>	Fox Sparrow
<i>Plectrophenax nivalis</i>	Snow Bunting
<i>Spinus pinus</i>	Pine Siskin
<i>Spizella arborea</i>	American Tree Sparrow
<i>Sitta canadensis</i>	Red-breasted Nuthatch
<b>Migratory / Wintering Raptors (9)</b>	
<i>Accipiter gentilis</i>	Northern Goshawk
<i>Accipiter striatus</i>	Sharp-shinned Hawk
<i>Aegolius acadicus</i>	Northern Saw-whet Owl
<i>Aquila chrysaetos</i>	Golden Eagle
<i>Asio otus</i>	Long-eared Owl
<i>Buteo lagopus</i>	Rough-legged Hawk
<i>Falco columbarius</i>	Merlin
<i>Falco peregrinus</i>	Peregrine Falcon
<i>Haliaeetus leucocephalus</i>	Bald Eagle



American Kestrel  
Peter WC Paton

<b>DE SGCN Herpetofauna (43)</b>	
<u>Scientific Name</u>	<u>Common Name</u>
<b>Amphibians (18)</b>	
<b>Ephemeral Wetland Obligate Amphibians</b>	
<i>Ambystoma maculatum</i>	Spotted Salamander
<i>Ambystoma opacum</i>	Marbled Salamander
<i>Ambystoma tigrinum</i>	Tiger Salamander
<i>Hyla gratiosa</i>	Barking Treefrog
<i>Lithobates sylvaticus</i>	Wood Frog
<b>Groundwater Lotic Amphibians</b>	
<i>Desmognathus fuscus</i>	Northern Dusky Salamander
<i>Eurycea longicauda</i>	Longtail Salamander
<i>Pseudotriton montanus</i>	Mud Salamander
<i>Pseudotriton ruber</i>	Red Salamander
<b>Other Amphibians</b>	
<i>Acris crepitans</i>	Northern Cricket Frog
<i>Anaxyrus fowleri</i>	Fowler's Toad
<i>Eurycea bislineata</i>	Northern Two-lined Salamander
<i>Hemidactylium scutatum</i>	Four-toed Salamander
<i>Hyla chrysoscelis</i>	Cope's Gray Treefrog
<i>Lithobates virgatipes</i>	Carpenter Frog
<i>Notophthalmus viridescens</i>	Eastern Newt
<i>Pseudacris kalmi</i>	New Jersey Chorus Frog
<i>Rana kauffeldi</i>	Atlantic Coast Leopard Frog
<b>Snakes and Lizards (14)</b>	
<b>Sand Specialist Snakes and Lizards</b>	
<i>Cemophora coccinea</i>	Scarletsnake
<i>Heterodon platirhinos</i>	Eastern Hog-nosed Snake
<i>Pantherophis guttatus</i>	Red Cornsnake
<i>Scincella lateralis</i>	Ground Skink
<i>Storeria occipitomaculata</i>	Red-bellied Snake
<b>Other Snakes and Lizards</b>	
<i>Agkistrodon contortrix</i>	Copperhead
<i>Lampropeltis getula</i>	Common Kingsnake
<i>Lampropeltis triangulum</i>	Milksnake
<i>Nerodia erythrogaster</i>	Plain-bellied Watersnake
<i>Opheodrys aestivus</i>	Rough Greensnake

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<i>Plestiodon laticeps</i>	Broad-headed Skink
<i>Regina septemvittata</i>	Queen Snake
<i>Thamnophis sauritus</i>	Eastern Ribbonsnake
<i>Virginia valeriae</i>	Smooth Earthsnake
<b>Turtles (10)</b>	
<b>River and Bay Turtles</b>	
<i>Malaclemys terrapin</i>	Diamondback Terrapin
<i>Pseudemys rubriventris</i>	Northern Red-bellied Cooter
<b>Sea Turtles</b>	
<i>Caretta caretta</i>	Loggerhead
<i>Chelonia mydas</i>	Green Turtle
<i>Dermochelys coriacea</i>	Leatherback
<i>Eretmochelys imbricata</i>	Hawksbill
<i>Lepidochelys kempii</i>	Kemp's Ridley Sea Turtle
<b>Wetland and Riparian Turtles</b>	
<i>Clemmys guttata</i>	Spotted Turtle
<i>Glyptemys muhlenbergii</i>	Bog Turtle
<b>Terrestrial Turtles</b>	
<i>Terrapene carolina</i>	Eastern Box Turtle



Spotted Turtle  
Chris Raithel

## APPENDIX 1.A: SGCN List, by Ecological Group

<b>DE SGCN Fish (105)</b>	
<b>Scientific Name</b>	<b>Common Name</b>
<b>Diadromous Fish</b>	
<i>Acipenser brevirostrum</i>	Shortnose Sturgeon
<i>Acipenser oxyrinchus oxyrinchus</i>	Atlantic Sturgeon
<i>Alosa aestivalis</i>	Blueback Herring
<i>Alosa mediocris</i>	Hickory Shad
<i>Alosa pseudoharengus</i>	Alewife
<i>Alosa sapidissima</i>	American Shad
<i>Anguilla rostrata</i>	American Eel
<i>Clupea harengus</i>	Atlantic Herring
<i>Morone saxatilis</i>	Striped Bass
<b>Coastal Sharks</b>	
<i>Carcharhinus brevipinna</i>	Spinner Shark
<i>Carcharhinus isodon</i>	Finetooth Shark
<i>Carcharhinus leucas</i>	Bull Shark
<i>Carcharhinus limbatus</i>	Blacktip Shark
<i>Carcharhinus plumbeus</i>	Sandbar Shark
<i>Carcharhinus signatus</i>	Night Shark
<i>Carcharias taurus</i>	Sand Tiger
<i>Galeocerdo cuvier</i>	Tiger Shark
<i>Ginglymostoma cirratum</i>	Nurse Shark
<i>Heptranchias perlo</i>	Sharpnose Sevengill Shark
<i>Hexanchus griseus</i>	Bluntnose Sixgill Shark
<i>Mustelus canis</i>	Smooth Dogfish
<i>Negaprion brevirostris</i>	Lemon Shark
<i>Rhizoprionodon terraenovae</i>	Atlantic Sharpnose Shark
<i>Sphyrna lewini</i>	Scalloped Hammerhead
<i>Sphyrna mokarran</i>	Great Hammerhead
<i>Sphyrna tiburo</i>	Bonnethead Shark
<i>Sphyrna zygaena</i>	Smooth Hammerhead
<i>Squalus acanthias</i>	Spiny Dogfish
<i>Squatina dumeril</i>	Angel Shark
<b>Estuarine Fish</b>	
<i>Apeltes quadracus</i>	Fourspine Stickleback
<i>Fundulus heteroclitus</i>	Mummichog

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<i>Fundulus luciae</i>	Spotfin Killifish
<i>Fundulus majalis</i>	Striped Killifish
<i>Menidia menidia</i>	Atlantic Silverside
<b>Freshwater Fish</b>	
<i>Acantharchus pomotis</i>	Mud Sunfish
<i>Amia calva</i>	Bowfin
<i>Cottus bairdii</i>	Mottled Sculpin
<i>Cottus caeruleomentum</i>	Blue Ridge Sculpin
<i>Cyprinella analostana</i>	Satinfin Shiner
<i>Enneacanthus chaetodon</i>	Blackbanded Sunfish
<i>Enneacanthus obesus</i>	Banded Sunfish
<i>Etheostoma fusiforme</i>	Swamp Darter
<i>Etheostoma vitreum</i>	Glassy Darter
<i>Exoglossum maxillingua</i>	Cutlip Minnow
<i>Hybognathus regius</i>	Eastern Silvery Minnow
<i>Lampetra aepyptera</i>	Least Brook Lamprey
<i>Lepomis auritus</i>	Redbreast Sunfish
<i>Lethenteron appendix</i>	American Brook Lamprey
<i>Moxostoma macrolepidotum</i>	Shorthead Redhorse
<i>Notropis amoenus</i>	Comely Shiner
<i>Notropis bifrenatus</i>	Bridle Shiner
<i>Notropis chalybaeus</i>	Ironcolor Shiner
<i>Notropis procne</i>	Swallowtail Shiner
<i>Noturus insignis</i>	Margined Madtom
<i>Percina peltata</i>	Shield Darter
<i>Semotilus corporalis</i>	Fallfish
<i>Umbra pygmaea</i>	Eastern Mudminnow
<b>Marine / Estuarine Fish</b>	
<i>Ammodytes americanus</i>	American Sand Lance
<i>Brevoortia tyrannus</i>	Atlantic Menhaden
<i>Centropristis striata</i>	Black Sea Bass
<i>Cynoscion nebulosus</i>	Spotted Seatrout
<i>Cynoscion regalis</i>	Weakfish
<i>Hemitripteris americanus</i>	Sea Raven
<i>Leiostomus xanthurus</i>	Spot
<i>Lophius americanus</i>	Goosefish
<i>Merluccius bilinearis</i>	Silver Hake
<i>Microgadus tomcod</i>	Atlantic Tomcod
<i>Micropogonias undulatus</i>	Atlantic Croaker



APPENDIX 1.A: SGCN List, by Ecological Group

<i>Myoxocephalus octodecemspinosus</i>	Longhorn Sculpin
<i>Opsanus tau</i>	Oyster Toadfish
<i>Paralichthys dentatus</i>	Summer Flounder
<i>Paralichthys oblongus</i>	Fourspot Flounder
<i>Peprilus triacanthus</i>	Butterfish
<i>Pogonias cromis</i>	Black Drum
<i>Pomatomus saltatrix</i>	Bluefish
<i>Prionotus carolinus</i>	Northern Searobin
<i>Prionotus evolans</i>	Striped Searobin
<i>Pseudopleuronectes americanus</i>	Winter Flounder
<i>Sciaenops ocellatus</i>	Red Drum
<i>Scomber scombrus</i>	Atlantic Mackerel
<i>Scomberomorus maculatus</i>	Spanish Mackerel
<i>Scophthalmus aquosus</i>	Windowpane
<i>Sphoeroides maculatus</i>	Northern Puffer
<i>Stenotomus chrysops</i>	Scup
<i>Tautoga onitis</i>	Tautog
<i>Tautoglabrus adspersus</i>	Cunner
<i>Thunnus thynnus</i>	Atlantic Bluefin Tuna
<i>Urophycis chuss</i>	Red Hake
<i>Zoarces americanus</i>	Ocean Pout
<b>Oceanic Sharks</b>	
<i>Alopias superciliosus</i>	Bigeye Thresher Shark
<i>Alopias vulpinus</i>	Thresher Shark
<i>Carcharhinus falciformis</i>	Silky Shark
<i>Carcharhinus longimanus</i>	Oceanic Whitetip Shark
<i>Carcharhinus obscurus</i>	Dusky Shark
<i>Carcharodon carcharias</i>	White Shark
<i>Cetorhinus maximus</i>	Basking Shark
<i>Isurus oxyrinchus</i>	Shortfin Mako Shark
<i>Isurus paucus</i>	Longfin Mako Shark
<i>Lamna nasus</i>	Porbeagle Shark
<i>Prionace glauca</i>	Blue Shark
<i>Rhincodon typus</i>	Whale Shark
<b>Skates and Rays</b>	
<i>Dasyatis centroura</i>	Roughtail Stingray
<i>Leucoraja erinacea</i>	Little Skate
<i>Leucoraja garmani</i>	Rosette Skate
<i>Leucoraja ocellata</i>	Winter Skate

<b>DE SGCN Invertebrates (333)</b>	
<u>Scientific Name</u>	<u>Common Name</u>
<b>Estuarine / Marine Invertebrates (7)</b>	
<i>Busycon carica</i>	Knobbed Whelk
<i>Busycotypus canaliculatus</i>	Channeled Whelk
<i>Callinectes sapidus</i>	Blue Crab
<i>Crassostrea virginica</i>	American Oyster
<i>Geukensia demissa</i>	Ribbed Mussel
<i>Homarus americanus</i>	American Lobster
<i>Limulus polyphemus</i>	Horseshoe Crab
<b>Freshwater Mussels (11)</b>	
<i>Alasmidonta heterodon</i>	Dwarf Wedgemussel
<i>Alasmidonta undulata</i>	Triangle Floater
<i>Alasmidonta varicosa</i>	Brook Floater
<i>Anodonta implicata</i>	Alewife Floater
<i>Elliptio complanata</i>	Eastern Elliptio
<i>Elliptio fisheriana</i>	Northern Lance
<i>Lampsilis cariosa</i>	Yellow Lampmussel
<i>Lampsilis radiata</i>	Eastern Lampmussel
<i>Leptodea ochracea</i>	Tidewater Mucket
<i>Ligumia nasuta</i>	Eastern Pondmussel
<i>Strophitus undulatus</i>	Creeper
<b>Freshwater Snails (5)</b>	
<i>Gyraulus deflectus</i>	Flexed Gyro
<i>Littoridinops tenuipes</i>	Henscomb Hydrobe
<i>Physa carolinae</i>	Carolina Physa
<i>Pomatiopsis lapidaria</i>	Slender Walker
<i>Promenetus exacuus</i>	Keeled Promenetus
<b>Land Snails (21)</b>	
<i>Anguispira alternata</i>	Flamed Tigersnail
<i>Anguispira fergusonii</i>	Coastal-plain Tigersnail
<i>Carychium exiguum</i>	Obese Thorn
<i>Catinella hubrichti</i>	Snowhill Ambersnail
<i>Discus catskillensis</i>	Angular Disc
<i>Euconulus dentatus</i>	Toothed Hive

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<i>Gastrocopta armifera</i>	Armed Snaggletooth
<i>Glyphyalinia picea</i>	Rust Glyph
<i>Haplotrema concavum</i>	Gray-foot Lancetooth
<i>Oxyloma effusum</i>	Coastal-plain Ambersnail
<i>Philomycus flexuolaris</i>	Winding Mantleslug
<i>Punctum vitreum</i>	Glass Spot
<i>Pupoides albilabris</i>	White-lip Dagger
<i>Stenotrema hirsutum</i>	Hairy Slitmouth
<i>Triodopsis tridentata</i>	Northern Threetooth
<i>Ventridens intertextus</i>	Pyramid Dome
<i>Vertigo ovata</i>	Ovate Vertigo
<i>Vertigo pygmaea</i>	Crested Vertigo
<i>Vertigo teskeyae</i>	Swamp Vertigo
<i>Vertigo tridentata</i>	Honey Vertigo
<i>Zonitoides nitidus</i>	Black Gloss
<b>Beetles (17)</b>	
<b>Fireflies</b>	
<i>Photuris bethaniensis</i>	Bethany Beach Firefly
<i>Photuris pennsylvanica</i>	A Firefly
<i>Photinus floridanus</i>	A Firefly
<i>Photinus ignitus</i>	A Firefly
<i>Photuris cinctipennis</i>	A Firefly
<i>Photuris frontalis</i>	A Firefly
<i>Photuris hebes</i>	A Firefly
<i>Photuris pyralomimus</i>	A Firefly
<i>Photuris tremulans</i>	A Firefly
<i>Pyractomena dispersa</i>	A Firefly
<b>Forest Fireflies</b>	
<i>Photuris mysticalampas</i>	A Firefly
<b>Tidal Marsh Fireflies</b>	
<i>Photuris salina</i>	A Firefly
<i>Pyractomena ecostata</i>	A Firefly
<b>Freshwater Beetles</b>	
<i>Agabetes acuductus</i>	A Predaceous Diving Beetle
<i>Helocombus bifidus</i>	A Water-scavenger Beetle
<i>Hoperius planatus</i>	A Predaceous Diving Beetle
<i>Hydrochus spangleri</i>	Seth Forest Water Scavenger Beetle
<b>Tiger Beetles (14)</b>	
<i>Cicindela dorsalis</i>	Eastern Beach Tiger Beetle

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<i>Cicindela dorsalis media</i>	White Tiger Beetle
<i>Cicindela duodecimguttata</i>	Twelve-spotted Tiger Beetle
<i>Cicindela formosa generosa</i>	Big Sand Tiger Beetle
<i>Cicindela hirticollis</i>	Hairy-necked Tiger Beetle
<i>Cicindela lepida</i>	Ghost Tiger Beetle
<i>Cicindela marginata</i>	Margined Tiger Beetle
<i>Cicindela patruela</i>	Northern Barrens Tiger Beetle
<i>Cicindela patruela consentanea</i>	New Jersey Pine Barrens Tiger Beetle
<i>Cicindela purpurea</i>	Cow Path Tiger Beetle
<i>Cicindela rufiventris</i>	Eastern Red-bellied Tiger Beetle
<i>Cicindela scutellaris</i>	Festive Tiger Beetle
<i>Cicindela unipunctata</i>	One-spotted Tiger Beetle
<i>Tetracha virginica</i>	Virginia Big-headed Tiger Beetle
<b>Other Beetles</b>	
<i>Lucanus elaphus</i>	Giant Stag Beetle
<i>Nicrophorus americanus</i>	American Burying Beetle
<b>Bees &amp; Wasps (11)</b>	
<b>Bumble Bees</b>	
<i>Bombus affinis</i>	Rusty-patched Bumble Bee
<i>Bombus ashtoni</i>	Ashton's Cuckoo Bumble Bee
<i>Bombus auricomus</i>	Black and Gold Bumble Bee
<i>Bombus fraternus</i>	Southern Plains Bumble Bee
<i>Bombus pensylvanicus</i>	American Bumble Bee
<i>Bombus vagans</i>	Half-black Bumble Bee
<i>Bombus variabilis</i>	Variable Cuckoo Bumble Bee
<b>Ground-nesting Bees and Wasps</b>	
<i>Colletes aestivalis</i>	A Cellophane Bee
<i>Lasioglossum marinum</i>	A Sweat Bee
<i>Lasioglossum nymphale</i>	A Sweat Bee
<i>Nomada rubicunda</i>	A Cuckoo Bee
<b>Butterflies &amp; Skippers (41)</b>	
<b>Early Successional Herbaceous Butterflies</b>	
<i>Anatrytone logan</i>	Delaware Skipper
<i>Boloria bellona</i>	Meadow Fritillary
<i>Danaus plexippus</i>	Monarch
<i>Erynnis baptisiae</i>	Wild Indigo Duskywing
<i>Pompeius verna</i>	Little Glassywing
<i>Pontia protodice</i>	Checkered White
<i>Speyeria idalia</i>	Regal Fritillary

APPENDIX 1.A: SGCN List, by Ecological Group

<b>Early Successional Shrubland Butterflies</b>	
<i>Callophrys gryneus</i>	Juniper Hairstreak
<b>Floodplain Forest Butterflies</b>	
<i>Asterocampa celtis</i>	Hackberry Emperor
<i>Asterocampa clyton</i>	Tawny Emperor
<i>Autochton cellus</i>	Gold-banded Skipper
<i>Libytheana carinenta</i>	American Snout
<b>Forest Butterflies</b>	
<i>Erynnis martialis</i>	Mottled Duskywing
<i>Feniseca tarquinius</i>	Harvester
<i>Polygonia progne</i>	Gray Comma
<i>Satyrium liparops strigosum</i>	Striped Hairstreak
<b>Forest Edge Butterflies</b>	
<i>Erynnis icelus</i>	Dreamy Duskywing
<i>Poanes hobomok</i>	Hobomok Skipper
<b>Forest Understory Butterflies</b>	
<i>Battus philenor</i>	Pipevine Swallowtail
<i>Callophrys henrici</i>	Henry's Elfin
<i>Celastrina neglectamajor</i>	Appalachian Azure
<b>Habitat Generalist Butterflies</b>	
<i>Speyeria aphrodite</i>	Aphrodite Fritillary
<b>Herbaceous Wetland Butterflies</b>	
<i>Boloria selene myrina</i>	Myrina Fritillary
<i>Euphydryas phaeton</i>	Baltimore Checkerspot
<i>Euphyes conspicua</i>	Black Dash
<i>Euphyes dion</i>	Dion Skipper
<i>Lethe eurydice</i>	Eyed Brown
<i>Lycaena hyllus</i>	Bronze Copper
<i>Poanes massasoit chermocki</i>	Chermock's Mulberry Wing
<i>Poanes massasoit massasoit</i>	Mulberry Wing
<b>Forested Wetland Butterflies</b>	
<i>Atlides halesus</i>	Great Purple Hairstreak
<i>Callophrys hesseli</i>	Hessel's Hairstreak
<i>Satyrium kingi</i>	King's Hairstreak
<i>Wallengrenia otho</i>	Southern Broken-Dash
<b>Tidal Wetland Butterflies</b>	
<i>Problema bulenta</i>	Rare Skipper
<b>Xeric Opening Butterflies</b>	
<i>Atrytonopsis hianna</i>	Dusted Skipper

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<i>Callophrys augustinus</i>	Brown Elfin
<i>Callophrys irus</i>	Frosted Elfin
<i>Erynnis brizo brizo</i>	Sleepy Duskywing
<i>Hesperia metea</i>	Cobweb Skipper
<i>Hesperia sassacus</i>	Indian Skipper
<b>Moths (106)</b>	
<b>Dune Herb-feeding Moths</b>	
<i>Drasteria graphica</i>	Graphic Moth
<i>Melitara prodenialis</i>	Eastern Cactus-boring Moth
<i>Schinia spinosae</i>	A Noctuid Moth
<i>Sympistis perscripta</i>	A Noctuid Moth
<b>Forest Herb-feeding Moths</b>	
<i>Hadena ectypa</i>	A Noctuid Moth
<i>Lintneria eremitus</i>	Hermit Sphinx
<i>Papaipema astuta</i>	Yellow Stoneroot Borer
<i>Papaipema duplicatus</i>	Dark Stoneroot Borer Moth
<i>Papaipema lysimachiae</i>	Loosestrife Borer Moth
<i>Papaipema pterisii</i>	Bracken Borer Moth
<i>Papaipema rutila</i>	Mayapple Borer Moth
<b>Forest Litter-feeding Moths</b>	
<i>Macrochilo louisiana</i>	Louisiana Macrochilo
<b>Forest Tree Canopy-feeding Moths</b>	
<i>Catocala cerogama</i>	Yellow Banded Underwing
<i>Catocala dejecta</i>	Dejected Underwing
<i>Catocala flebilis</i>	Mournful Underwing
<i>Catocala habilis</i>	Habilis Underwing
<i>Catocala innubens</i>	The Betrothed Underwing
<i>Catocala insolabilis</i>	Inconsolable Underwing
<i>Catocala lacrymosa</i>	Tearful Underwing
<i>Catocala minuta</i>	Little Underwing
<i>Catocala nebulosa</i>	Clouded Underwing
<i>Catocala obscura</i>	Obscure Underwing
<i>Catocala residua</i>	Residua Underwing
<i>Catocala ulalume</i>	An Underwing Moth
<i>Lapara coniferarum</i>	Southern Pine Sphinx
<i>Sphinx franckii</i>	Franck's Sphinx
<i>Tolype notialis</i>	Small Tolype Moth
<i>Zale metata</i>	A Noctuid Moth
<i>Zale metatoides</i>	Washed-out Zale Moth

APPENDIX 1.A: SGCN List, by Ecological Group

<b>Forest Tree-feeding Moths</b>	
<i>Acronicta exilis</i>	Exiled Dagger Moth
<i>Acronicta lithospila</i>	Streaked Dagger Moth
<i>Amorpha juglandis</i>	Walnut Sphinx
<i>Catocala maestosa</i>	Sad Underwing
<i>Catocala umbrosa</i>	An Underwing Moth
<i>Ceratomia undulosa</i>	Waved Sphinx
<i>Copivaleria grotei</i>	Grote's Sallow
<i>Eacles imperialis</i>	Imperial Moth
<i>Haploa colona</i>	Colona Moth
<i>Heterocampa astarte</i>	A Notodontid Moth
<i>Lophocampa caryae</i>	Hickory Tussock Moth
<i>Manduca jasminearum</i>	Ash Sphinx
<i>Papaipema furcata</i>	Ash Borer Moth
<i>Papaipema marginidens</i>	A Borer Moth
<i>Synanthedon castaneae</i>	Chestnut Clearwing Moth
<b>Forest Understory-feeding Moths</b>	
<i>Acronicta increta</i>	Southern Oak Dagger Moth
<i>Acronicta rubricoma</i>	Ruddy Dagger Moth
<i>Amphion floridensis</i>	Nessus Sphinx
<i>Catocala alabamae</i>	Alabama Underwing
<i>Catocala antinympha</i>	Sweetfern Underwing
<i>Catocala mira</i>	Wonderful Underwing
<i>Catocala praeclara</i>	Praeclara Underwing
<i>Deidamia inscriptum</i>	Lettered Sphinx
<i>Dolba hyloeus</i>	Pawpaw Sphinx
<i>Hemileuca maia maia</i>	Eastern Buckmoth
<i>Manduca rustica</i>	Rustic Sphinx
<i>Paonias astylus</i>	Huckleberry Sphinx
<i>Papaipema araliae</i>	Aralia Shoot Borer Moth
<i>Paratreia plebeja</i>	Plebian Sphinx
<i>Sphinx chersis</i>	Great Ash Sphinx
<i>Xestia dilucida</i>	A Noctuid Moth
<b>Freshwater Wetland Herb-feeding Moths</b>	
<i>Apamea helva</i>	A Noctuid Moth
<i>Bellura gortynoides</i>	A Noctuid Moth
<i>Capsula subflava</i>	A Noctuid Moth
<i>Cirrhophanus triangulifer</i>	A Noctuid Moth
<i>Exyra fax</i>	Pitcher Plant Moth

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<i>Papaipema appassionata</i>	Pitcher Plant Borer Moth
<i>Papaipema birdi</i>	Umbellifer Borer Moth
<i>Papaipema inquaesita</i>	Sensitive Fern Borer Moth
<i>Papaipema speciosissima</i>	Osmunda Borer Moth
<i>Papaipema stenocelis</i>	Chain Fern Borer Moth
<i>Parapamea buffaloensis</i>	Buffalo Moth
<i>Tarache delecta</i>	A Noctuid Moth
<b>Freshwater Wetland Shrub-feeding Moths</b>	
<i>Argyrostroma quadrifilaris</i>	Four-lined Chocolate Moth
<i>Darapsa versicolor</i>	Hydrangea Sphinx
<b>Freshwater Wetland Tree-feeding Moths</b>	
<i>Acronicta connecta</i>	Connected Dagger Moth
<i>Catocala carissima</i>	An Underwing Moth
<i>Catocala marmorata</i>	Marbled Underwing
<i>Catocala parta</i>	Mother Underwing
<i>Catocala unijuga</i>	Once-married Underwing
<i>Cerura scitiscrupta</i>	Black-Etched Prominent
<i>Gluphisia lintneri</i>	A Notodontid Moth
<i>Iridopsis pergracilis</i>	A Geometrid Moth
<i>Orgyia detrita</i>	A Tussock Moth
<i>Pero ancetaria</i>	Hübner's Pero
<b>Lichen-feeding Moths</b>	
<i>Cisthene kentuckiensis</i>	Kentucky Lichen Moth
<i>Cisthene tenuifascia</i>	Thin-Banded Lichen Moth
<i>Nigetia formosalis</i>	Thin-winged Owlet Moth
<i>Parahyponodes quadralis</i>	A Noctuid Moth
<b>Meadow Herb-feeding Moths</b>	
<i>Agrilus cingulata</i>	Pink-spotted Hawkmoth
<i>Azenia obtusa</i>	Obtuse Yellow
<i>Calyptra canadensis</i>	Canadian Owlet
<i>Grammia phyllira</i>	Phyllira Tiger Moth
<i>Hyles gallii</i>	Galium Sphinx
<i>Papaipema baptisiae</i>	Wild Indigo Borer Moth
<i>Papaipema circumlucens</i>	Hop Borer
<i>Papaipema eupatorii</i>	Eupatorium Borer Moth
<i>Papaipema maritima</i>	Maritime Sunflower Borer Moth
<i>Papaipema nelita</i>	A Borer Moth
<i>Papaipema rigida</i>	A Borer Moth
<i>Schinia septentrionalis</i>	A Noctuid Moth



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<i>Schinia trifascia</i>	Three-lined Flower Moth
<b>Pine-feeding Moths</b>	
<i>Zale squamularis</i>	A Noctuid Moth
<i>Caripeta aretaria</i>	A Geometrid Moth
<b>Tidal Marsh Moths</b>	
<i>Pero zalissaria</i>	A Geometrid Moth
<b>Undetermined</b>	
<i>Agnorisma bollii</i>	A Noctuid Moth
<i>Chloropteryx tepperaria</i>	Angle Winged Emerald Moth
<b>Dragonflies &amp; Damselflies (82)</b>	
<i>Aeshna tuberculifera</i>	Black-tipped Darner
<i>Anax longipes</i>	Comet Darner
<i>Argia bipunctulata</i>	Seepage Dancer
<i>Arigomphus villosipes</i>	Unicorn Clubtail
<i>Celithemis elisa</i>	Calico Pennant
<i>Celithemis fasciata</i>	Black Spotted Skimmer
<i>Celithemis verna</i>	Double-ringed Pennant
<i>Chromagrion conditum</i>	Aurora Damsel
<i>Enallagma aspersum</i>	Azure Bluet
<i>Enallagma basidens</i>	Double-striped Bluet
<i>Enallagma daeckii</i>	Attenuated Bluet
<i>Enallagma dubium</i>	Burgundy Bluet
<i>Enallagma geminatum</i>	Skimming Bluet
<i>Enallagma traviatum</i>	Slender Bluet
<i>Enallagma vesperum</i>	Vesper Bluet
<i>Epitheca costalis</i>	Slender Baskettail
<i>Epitheca spinosa</i>	Robust Baskettail
<i>Erythrodiplax minuscula</i>	Little Blue Dragonlet
<i>Gomphaeschna antilope</i>	Taper-tailed Darner
<i>Gomphaeschna furcillata</i>	Harlequin Darner
<i>Gomphus exilis</i>	Lancet Clubtail
<i>Ischnura kellicotti</i>	Lilypad Forktail
<i>Lestes australis</i>	Southern Spreadwing
<i>Lestes congener</i>	Spotted Spreadwing
<i>Lestes eurinus</i>	Amber-winged Spreadwing
<i>Lestes forcipatus</i>	Sweetflag Spreadwing
<i>Lestes inaequalis</i>	Elegant Spreadwing
<i>Lestes rectangularis</i>	Slender Spreadwing
<i>Lestes vigilax</i>	Swamp Spreadwing

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<i>Leucorrhinia intacta</i>	Dot-tailed Whiteface
<i>Libellula auripennis</i>	Golden-winged Skimmer
<i>Libellula axilena</i>	Bar-winged Skimmer
<i>Libellula cyanea</i>	Spangled Skimmer
<i>Libellula needhami</i>	Needham's Skimmer
<i>Libellula semifasciata</i>	Painted Skimmer
<i>Nehalennia gracilis</i>	Sphagnum Sprite
<i>Nehalennia integricollis</i>	Southern Sprite
<i>Nehalennia irene</i>	Sedge Sprite
<i>Sympetrum rubicundulum</i>	Ruby Meadowhawk
<i>Sympetrum semicinctum</i>	Band-winged Meadowhawk
<i>Progomphus obscurus</i>	Common Sanddragon
<i>Telebasis byersi</i>	Duckweed Firetail
<i>Celithemis martha</i>	Martha's Pennant
<i>Macromia taeniolata</i>	Royal River Cruiser
<i>Amphiagrion saucium</i>	Eastern Red Damsel
<i>Archilestes grandis</i>	Great Spreadwing
<i>Basiaeschna janata</i>	Springtime Darner
<i>Boyeria vinosa</i>	Fawn Darner
<i>Cordulegaster bilineata</i>	Brown Spiketail
<i>Cordulegaster diastatops</i>	Delta-spotted Spiketail
<i>Cordulegaster erronea</i>	Tiger Spiketail
<i>Cordulegaster maculata</i>	Twin-spotted Spiketail
<i>Didymops transversa</i>	Stream Cruiser
<i>Enallagma divagans</i>	Turquoise Bluet
<i>Enallagma pallidum</i>	Pale Bluet
<i>Gomphus lividus</i>	Ashy Clubtail
<i>Helocordulia selysii</i>	Selys' Sundragon
<i>Libellula flavida</i>	Yellow-sided Skimmer
<i>Somatochlora filosa</i>	Fine-lined Emerald
<i>Somatochlora linearis</i>	Mocha Emerald
<i>Somatochlora provocans</i>	Treetop Emerald
<i>Stylurus laurae</i>	Laura's Clubtail
<i>Stylurus plagiatus</i>	Russet-tipped Clubtail
<i>Macromia illinoiensis</i>	Swift River Cruiser
<i>Stylogomphus albistylus</i>	Eastern Least Clubtail
<i>Argia moesta</i>	Powdered Dancer
<i>Argia sedula</i>	Blue-ringed Dancer
<i>Argia translata</i>	Dusky Dancer

APPENDIX 1.A: SGCN List, by Ecological Group

<i>Calopteryx dimidiata</i>	Sparkling Jewelwing
<i>Dromogomphus spinosus</i>	Black-shouldered Spinyleg
<i>Enallagma weewa</i>	Blackwater Bluet
<i>Gomphus apomyius</i>	Banner Clubtail
<i>Gomphus fraternus</i>	Midland Clubtail
<i>Gomphus rogersi</i>	Sable Clubtail
<i>Lanthus vernalis</i>	Southern Pygmy Clubtail
<i>Neurocordulia obsoleta</i>	Umber Shadowdragon
<i>Stylurus spiniceps</i>	Arrow Clubtail
<i>Aeshna verticalis</i>	Green-striped Darner
<i>Nannothemis bella</i>	Elfin Skimmer
<i>Somatochlora tenebrosa</i>	Clamp-tipped Emerald
<i>Rhionaeschna mutata</i>	Spatterdock Darner
<i>Brachymesia gravida</i>	Four-spotted Pennant
<i>Enallagma durum</i>	Big Bluet
<i>Erythrodiplax berenice</i>	Seaside Dragonlet
<b>Freshwater Aquatic Insects (12)</b>	
<i>Agarodes libalis</i>	Spring-loving Psiloneuran Caddisfly
<i>Anisocentropus pyraloides</i>	A Caddisfly
<i>Beraea fontana</i>	A Caddisfly
<i>Beraea nigritta</i>	A Caddisfly
<i>Cheumatopsyche virginica</i>	A Caddisfly
<i>Cheumatopsyche wabasha</i>	A Caddisfly
<i>Helicopsyche borealis</i>	A Caddisfly
<i>Hydropsyche hoffmani</i>	A Caddisfly
<i>Hydropsyche impula</i>	A Caddisfly
<i>Hydropsyche ophthalmica</i>	A Caddisfly
<i>Neophylax delicatus</i>	A Caddisfly
<i>Polycentropus chenoides</i>	A Caddisfly
<i>Ostrocerca prolongata</i>	Bent Forestfly