

Appendix A

Sarah Tanedo/USFWS



Common tern with chicks

Animal Species Known or Suspected on Monomoy National Wildlife Refuge

Table A.1. Fish Species Known or Suspected at Monomoy National Wildlife Refuge (NWR).

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Lampreys – Petromyzontidae										
Sea Lamprey	<i>Petromyzon marinus</i>	-	-	G5	S4	-	-	0.2	0.0	-
Sand Tigers – Odontaspidae										
Sand Tiger Shark	<i>Carcharias taurus</i>	-	-	-	-	S	V	0.0	0.5	-
Mackerel Sharks – Lamnidae										
White Shark	<i>Carcharodon carcharias</i>	-	-	-	-	-	V	-	-	-
Requiem Sharks - Charcharhinidae										
Smooth Dogfish	<i>Mustelus canis</i>	-	-	-	-	-	-	15.1	71.5	-
Dogfishes – Squalidae										
Spiny Dogfish	<i>Squalus acanthias</i>	-	-	-	-	-	-	7.5	3.4	-
Skates – Rajidae										
Thorny Skate	<i>Amblyraja radiata</i>	-	-	-	-	S	V	0.3	0.0	-
Little Skate	<i>Leucoraja erinacea</i>	-	-	-	-	-	-	78.6	61.5	-
Winter Skate	<i>Leucoraja ocellata</i>	-	-	-	-	-	-	60.9	46.5	-
Clearnose Skate	<i>Raja eglanteria</i>	-	-	-	-	-	-	0.0	0.2	-
Stingrays – Dasyatidae										
Roughtail Stingray	<i>Dasyatis centroura</i>	-	-	-	-	-	-	0.0	1.4	-
Freshwater Eels – Anguillidae										
American Eel	<i>Anguilla rostrata</i>	-	-	G5	S5	-	-	0.2	0.2	-
Congers – Congridae										
Conger Eel	<i>Conger oceanicus</i>	-	-	-	-	-	-	0.0	0.3	-
Herrings – Clupeidae										
Blueback Herring	<i>Alosa aestivalis</i>	-	-	G5	S4	S	-	2.0	0.9	-
Alewife	<i>Alosa pseudoharengus</i>	-	-	G5	SNR	S	-	12.3	1.0	-
American Shad	<i>Alosa sapidissima</i>	-	-	G5	S3	-	-	4.5	0.0	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Atlantic Menhaden	<i>Brevoortia tyrannus</i>	-	-	-	-	-	-	1.0	1.9	-
Atlantic Herring	<i>Clupea harengus</i>	-	-	-	-	-	-	9.5	2.4	-
Tunas – Scombridae										
*Atlantic Bluefin Tuna	<i>Thunnus thynnus</i>	-	-	-	-	-	-	NA	NA	-
Anchovies – Engraulidae										
Striped Anchovy	<i>Anchoa hepsetus</i>	-	-	-	-	-	-	0.0	8.9	-
Bay Anchovy	<i>Anchoa mitchilli</i>	-	-	-	-	-	-	0.7	9.4	-
Smelts – Osmeridae										
Rainbow Smelt	<i>Osmerus mordax</i>	-	-	-	-	S	-	0.2	0.2	-
Lizardfishes – Synodontidae										
Inshore Lizardfish	<i>Synodus foetens</i>	-	-	-	-	-	-	0.0	2.9	-
Lizardfish unclassified	<i>Synodontidae</i> spp.	-	-	-	-	-	-	0.0	0.5	-
Snakefish	<i>Trachinocephalus myops</i>	-	-	-	-	-	-	0.0	1.0	-
Toadfishes – Batrachoididae										
Oyster Toadfish	<i>Opsanus tau</i>	-	-	-	-	-	-	0.2	0.2	-
Goosefishes – Lophiidae										
Goosefish	<i>Lophius americanus</i>	-	-	-	-	-	-	0.2	0.0	-
Wolfish – Anarhichadidae										
*Atlantic Wolffish	<i>Anarhichas lupus</i>	-	-	-	-	-	-	NA	NA	-
Cods – Gadidae										
Fourbeard Rockling	<i>Enchelyopus cimbrius</i>	-	-	-	-	-	-	0.2	0.3	-
Atlantic Cod	<i>Gadus morhua</i>	-	-	-	-	-	V	53.4	0.2	-
Haddock	<i>Melanogrammus aeglefinus</i>	-	-	-	-	-	-	0.3	0.0	-
Silver Hake	<i>Merluccius bilinearis</i>	-	-	-	-	-	-	11.3	4.3	-
Atlantic Tomcod	<i>Microgadus tomcod</i>	-	-	-	-	-	-	0.2	0.0	-
Pollock	<i>Pollachius virens</i>	-	-	-	-	-	-	13.9	0.0	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Red Hake	<i>Urophycis chuss</i>	-	-	-	-	-	-	13.8	2.9	-
Spotted Hake	<i>Urophycis regia</i>	-	-	-	-	-	-	5.6	1.2	-
White Hake	<i>Urophycis tenuis</i>	-	-	-	-	-	-	9.3	2.2	-
Halfbeaks – Exocoetidae										
Silverstripe Halfbeak	<i>Hyporhamphus unifasciatus</i>	-	-	-	-	-	-	NA	NA	-
Needlefishes – Belontiidae										
Atlantic Needlefish	<i>Strongylura marina</i>	-	-	-	-	-	-	NA	NA	-
Sauries – Scomberesocidae										
Atlantic Saury	<i>Scomberesox saurus</i>	-	-	-	-	-	-	NA	NA	-
Killifishes – Cyprinodontidae										
Rainwater Killifish	<i>Lucania parva</i>	-	-	-	-	-	-	NA	NA	-
Striped Killifish	<i>Fundulus majalis</i>	-	-	-	-	-	-	NA	NA	-
Mummichog	<i>Fundulus heteroclitus</i>	-	-	-	-	-	-	NA	NA	-
Livebearers – Poeciliidae										
Mosquitofish	<i>Gambusia affinis</i>	-	-	-	-	-	-	NA	NA	-
Silversidees – Atherinidae										
Atlantic Silverside	<i>Menidia menidia</i>	-	-	-	-	-	-	0.3	0.0	-
Cometfishes – Fistulariidae										
Red Cometfish	<i>Fistularia petimba</i>	-	-	-	-	-	-	0.0	0.5	-
Bluespotted Cometfish	<i>Fistularia tabacaria</i>	-	-	-	-	-	-	0.0	4.6	-
Pipefishes – Syngnathidae										
Northern Pipefish	<i>Syngnathus fuscus</i>	-	-	-	-	-	-	7.5	17.1	-
Temperate Basses – Percichthyidae										
White Perch	<i>Morone americana</i>	-	-	-	-	-	-	NA	NA	-
Striped Bass	<i>Morone saxatilis</i>	-	-	-	-	-	-	3.3	0.3	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Sea Basses – Serranidae										
Black Sea Bass	<i>Centropristis striata</i>	-	-	-	-	-	-	30.0	81.0	-
Rock Hind	<i>Epinephelus adscensionis</i>	-	-	-	-	-	-	0.0	0.2	-
Snowy Grouper	<i>Epinephelus niveatus</i>	-	-	-	-	-	V	0.0	0.7	-
Gag	<i>Mycteroperca microlepis</i>	-	-	-	-	-	-	0.0	0.2	-
Scamp	<i>Mycteroperca phenax</i>	-	-	-	-	-	-	0.0	0.3	-
Bigeyes – Priacanthidae										
Bigeye	<i>Priacanthus arenatus</i>	-	-	-	-	-	-	0.0	4.8	-
Glasseye Snapper	<i>Priacanthus cruentatus</i>	-	-	-	-	-	-	0.0	1.9	-
Short Bigeye	<i>Pristigynys alta</i>	-	-	-	-	-	-	0.0	1.7	-
Bluefishes – Pomatomidae										
Bluefish	<i>Pomatomus saltatrix</i>	-	-	-	-	-	-	0.8	22.9	-
Jacks – Carangidae										
African Pompano	<i>Alectis ciliaris</i>	-	-	-	-	-	-	0.0	0.3	-
Yellow Jack	<i>Caranx bartholomaei</i>	-	-	-	-	-	-	0.0	0.2	-
Blue Runner	<i>Caranx crysos</i>	-	-	-	-	-	-	0.0	1.5	-
Crevalle Jack	<i>Caranx hippos</i>	-	-	-	-	-	-	NA	NA	-
Mackerel Scad	<i>Decapterus macarellus</i>	-	-	-	-	-	-	0.0	14.5	-
Round Scad	<i>Decapterus punctatus</i>	-	-	-	-	-	-	0.0	1.2	-
Permit Jack	<i>Trachinotus falcatus</i>	-	-	-	-	-	-	NA	NA	-
Rough Scad	<i>Trachurus lathami</i>	-	-	-	-	-	-	0.0	2.1	-
Bigeye Scad	<i>Selar crumenophthalmus</i>	-	-	-	-	-	-	0.0	0.9	-
Atlantic Moonfish	<i>Selene setapinnis</i>	-	-	-	-	-	-	0.0	9.2	-
Lookdown	<i>Selene vomer</i>	-	-	-	-	-	-	0.0	0.3	-
Greater Amberjack	<i>Seriola dumerilii</i>	-	-	-	-	-	-	NA	NA	-
Banded Rudderfish	<i>Seriola zonata</i>	-	-	-	-	-	-	0.0	0.3	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Porgies – Sparidae										
Scup	<i>Stenotomus chrysops</i>	-	-	-	-	-	-	47.9	99.7	-
Drums – Sciaenidae										
Weakfish	<i>Cynoscion regalis</i>	-	-	-	-	-	-	0.0	0.2	-
Spot	<i>Leiostomus xanthurus</i>	-	-	-	-	-	-	0.0	0.3	-
Northern Kingfish	<i>Menticirrhus saxatilis</i>	-	-	-	-	-	-	0.7	17.1	-
Goatfishes – Mullidae										
Red Goatfish	<i>Mullus auratus</i>	-	-	-	-	-	-	0.0	1.2	-
Dwarf Goatfish	<i>Upeneus parvus</i>	-	-	-	-	-	-	0.0	0.7	-
Butterflyfishes – Chaetodontidae										
Spotfin Butterflyfish	<i>Chaetodon ocellatus</i>	-	-	-	-	-	-	0.0	0.5	-
Wrasses – Labridae										
Tautog	<i>Tautog onitis</i>	-	-	-	-	-	-	26.2	15.9	-
Cunner	<i>Tautoglabrus adspersus</i>	-	-	-	-	-	-	16.4	10.6	-
Mulletts – Mugilidae										
White Mullet	<i>Mugil curema</i>	-	-	-	-	-	-	NA	NA	-
Barracudas – Sphyraenidae										
Northern Sennet	<i>Sphyraena borealis</i>	-	-	-	-	-	-	0.0	0.9	-
Guaguanche	<i>Sphyraena guachancho</i>	-	-	-	-	-	-	0.0	0.9	-
Pricklebacks – Stichaeidae										
Snakeblenny	<i>Lumpenus lumpretaeformis</i>	-	-	-	-	-	-	0.2	0.0	-
Radiated Shanny	<i>Ulvaria subbiturcata</i>	-	-	-	-	-	-	NA	NA	-
Gunnels – Pholidae										
Rock Gunnel	<i>Pholis gunnellus</i>	-	-	-	-	-	-	11.4	2.7	-

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Eelpouts – Zoarcidae										
Ocean Pout	<i>Macrozoarces americanus</i>	-	-	-	-	-	-	0.7	0.0	-
Sand Lances – Ammodytidae										
Northern Sand Lance	<i>Ammodytes dubius</i>	-	-	-	-	-	-	13.8	3.4	-
Gobies – Gobiidae										
Naked Goby	<i>Gobiosoma boscii</i>	-	-	-	-	-	-	NA	NA	-
Seaboard Goby	<i>Gobiosoma ginsburgi</i>	-	-	-	-	-	-	NA	NA	-
Goby unclassified	<i>Gobiidae</i> spp.	-	-	-	-	-	-	0.0	0.2	-
Mackerels – Scombridae										
Atlantic Mackerel	<i>Scomber scombrus</i>	-	-	-	-	-	-	3.3	0.0	-
Butterfishes – Stromateidae										
Butterfish	<i>Peprilus triacanthus</i>	-	-	-	-	-	-	24.7	91.8	-
Searobins – Triglidae										
Northern Searobin	<i>Prionotus carolinus</i>	-	-	-	-	-	-	68.8	65.3	-
Striped Searobin	<i>Prionotus evolans</i>	-	-	-	-	-	-	7.1	18.8	-
Sculpins – Cottidae										
Sea Raven	<i>Hemiripiterus americanus</i>	-	-	-	-	-	-	11.6	0.2	-
Grubby	<i>Myoxocephalus aeneus</i>	-	-	-	-	-	-	2.5	0.9	-
Longhorn Sculpin	<i>Myoxocephalus octodecemspinosus</i>	-	-	-	-	-	-	27.9	0.3	-
Poachers – Agonidae										
Alligatorfish	<i>Aspidophoroides monopterygius</i>	-	-	-	-	-	-	0.2	0.0	-
Lumpfishes and Snailfishes – Cyclopteridae										
Lumpfish	<i>Cyclopterus lumpus</i>	-	-	-	-	-	-	0.7	0.0	-
Atlantic Seasnail	<i>Liparis atlanticus</i>	-	-	-	-	-	-	0.3	0.0	-
Flying Gurnards – Dactylopteridae										
Flying Gurnard	<i>Dactylopterus volitans</i>	-	-	-	-	-	-	0.0	0.7	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Lefteye Flounders – Bothidae										
Gulf Stream Flounder	<i>Citharichthys arctifrons</i>	-	-	-	-	-	-	2.0	5.8	-
Spotted Whiff	<i>Citharichthys macrops</i>	-	-	-	-	-	-	NA	NA	-
Smallmouth Flounder	<i>Etropus microstomus</i>	-	-	-	-	-	-	8.3	30.4	-
Summer Flounder	<i>Paralichthys dentatus</i>	-	-	-	-	-	-	55.4	64.6	-
Fourspot Flounder	<i>Paralichthys oblongus</i>	-	-	-	-	-	-	12.8	8.0	-
Windowpane	<i>Scophthalmus aquosus</i>	-	-	-	-	-	-	79.6	32.8	-
Righteye Flounders – Pleuronectidae										
Yellowtail Flounder	<i>Pleuronectes ferruginea</i>	-	-	-	-	-	-	2.7	0.0	-
Winter Flounder	<i>Pseudopleuronectes America</i>	-	-	-	-	-	-	87.9	23.8	-
Soles – Soleidae										
Hogchoker	<i>Trinectes maculatus</i>	-	-	-	-	-	-	0.0	0.2	-
Leatherjackets – Balistidae										
Orange Filefish	<i>Aluterus schoepfi</i>	-	-	-	-	-	-	0.0	1.2	-
Scrawled Filefish	<i>Aluterus scriptus</i>	-	-	-	-	-	-	0.0	0.3	-
Gray Triggerfish	<i>Balistes capricus</i>	-	-	-	-	-	-	0.0	0.9	-
Planehead Filefish	<i>Monacanthus hispidus</i>	-	-	-	-	-	-	0.0	10.3	-
Boxfishes – Ostraciidae										
Trunkfish	<i>Lactophrys trigonus</i>	-	-	-	-	-	-	0.0	0.2	-
Puffers – Tetraodontidae										
Northern Puffer	<i>Sphoeroides maculatus</i>	-	-	-	-	-	-	0.0	11.8	-
Sunfish – Centrarchidae										
Largemouth Bass	<i>Micropterus salmoides</i>	-	-	-	-	-	-	NA	NA	-

Source: Data assembled from the Massachusetts Division of Marine Fisheries Nantucket Sound Spring and Fall Trawl Surveys from 1978 to 2010 and the Nantucket Sound Estuarine Winter Flounder Seine Surveys 1976 to 2010.

* Data assembled from the New England Fishery Management Council Essential Fish Habitat and Habitat Area of Particular Concern Designation Alternatives Draft 2012, and NOAA Fisheries Division of Highly Migratory Species Amendment 1 to the consolidated Highly Migratory Species Fishery Management Plan, June 2009.

Table A.2. Reptile Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	NALC Rep. Species ¹⁵
Water Turtles – Emydidae							
Painted Turtle	<i>Chrysemys picta</i>	-	-	-	-	-	M
Sea Turtles – Cheloniidae							
Loggerhead Sea Turtle	<i>Caretta caretta</i>	T	T	G3	S1	P/E	M
Green Sea Turtle	<i>Chelonia mydas</i>	T	T	G3	S1	T	-
Hawksbill Sea Turtle	<i>Eretmochelys imbricate</i>	E	T	G3	S1	E	-
Kemp's Ridley Sea Turtle	<i>Lepidochelys kempii</i>	E	E	G1	S1	E	-
Sea Turtles – Dermochelyidae							
Leatherback Sea Turtle	<i>Dermochelys coriacea</i>	E	E	G3	S1S2	E	-
Colubrids – Colubridae							
Eastern Hognose Snake	<i>Heterodon platirhinos</i>	-	-	G5	S5	-	SM
Eastern Ribbon Snake	<i>Thamnophis sauritus</i>	-	-	G5	S5	-	-
Eastern Garter Snake	<i>Thamnophis sirtalis sirtalis</i>	-	-	-	-	-	-

Source: Data assembled from the Massachusetts Division of Fisheries and Wildlife, Fauna of Massachusetts Series No. 3, State Reptiles and Amphibians List—Species Distribution, in addition to staff observations of wildlife on the refuge.

Table A.3. Amphibian Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	NALC Rep. Species ¹⁵
Toads – Bufonidae							
•Fowlers Toad	<i>Bufo woodhousii fowleri</i>	-	-	-	-	-	-

Source: Data assembled from the Massachusetts Division of Fisheries and Wildlife, Fauna of Massachusetts Series No. 3, State Reptiles and Amphibians List—Species Distribution, in addition to staff observations of wildlife on the refuge.

•Denotes species suspected to have been breeding on the refuge over the past 20 years.

Table A.4. Bird Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Legal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	BC7	BCR 30 ⁸	PIF 09 ⁹	MANEM10	NAWMP11	NAWCP12	U.S. SCP13	Spring ¹⁴	Summer ¹⁴	Fall ¹⁴	Winter ¹⁴	NALC Rep. Species ¹⁵
Loons – Gaviidae																	
Red-throated Loon	<i>Gavia stellata</i>	-				R5	HH	-	HH	-	-	-	a	r	a	c	-
Common Loon	<i>Gavia immer</i>	-	SC	G5	S1	-	-	-	HH	-	-	-	a	u	a	c	-
Grebes – Podicipedidae																	
Horned Grebe	<i>Podiceps auritus</i>	-				R5	H	-	HH	-	-	-	o		u	o	-
Red-necked Grebe	<i>Podiceps grisegena</i>	-	-	-	-	-	-	-	H	-	-	-	r		r	r	-
Eared Grebe	<i>Podiceps nigricollis</i>	-	-	-	-	-	-	-	-	-	-	-		x	x		-
•Pied-billed Grebe	<i>Podilymbus podiceps</i>	-	E	G5	S1	R5	-	-	HH	-	-	-	u	r	c		-
Fulmars and Shearwaters – Procellariidae																	
Cory's Shearwater	<i>Calonectris diomedea</i>	-	-	-	-	-	M	-	H	-	MC	-		o	o		-
Northern Fulmar	<i>Fulmarus glacialis</i>	-	-	-	-	-	-	-	L	-	-	-	r		r	r	-
Greater Shearwater	<i>Puffinus gravis</i>	-	-	-	-	R5	H	-	HH	-	-	-		o	o		-
Sooty Shearwater	<i>Puffinus griseus</i>	-	-	-	-	-	-	-	M	-	MC	-	o	u	r		-
Manx Shearwater	<i>Puffinus puffinus</i>	-	-	-	-	-	M	-	M	-	MC	-	r	o	r		-
Storm-petrels – Hydrobatidae																	
Leach's Storm-Petrel	<i>Oceanodroma leucorhoa</i>	-	E	G5	S1	-	-	-	M	-	LC	-	r	r	r		-
Wilson's Storm-petrel	<i>Oceanites oceanicus</i>	-	-	-	-	-	-	-	L	-	-	-		u			-
Boobies and Gannets – Sulidae																	
Northern Gannet	<i>Morus bassanus</i>	-	-	-	-	-	H	-	M	-	-	-	a	u	a	u	-
Brown Booby	<i>Sula leucogaster</i>	-	-	-	-	-	-	-	-	-	HC	-			x		-
Cormorants – Phalacrocoracidae																	
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	-	-	-	-	-	-	-	L	-	LI	-	a	a	a	r	-
Great Cormorant	<i>Phalacrocorax carbo</i>	-	-	-	-	-	-	-	H	-	MC	-	c	r	c	c	-

Common Name	Scientific Name	Federal Legal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	BC7	BCR 308	PIF 099	MANEM ¹⁰	NAWMP ¹¹	NAWCP ¹²	U.S. SCP ¹³	Spring ¹⁴	Summer ¹⁴	Fall ¹⁴	Winter ¹⁴	NALC Rep. Species ¹⁵
Frigatebirds – Frigateidae																	
Magnificent Frigatebird	<i>Fregata magnificens</i>	-	-	-	-	-	-	-	-	-	HC	-		X			-
Bitterns, Herons, and Egrets – Ardeidae																	
•Great Egret	<i>Ardea alba egretta</i>	-	-	-	-	-	-	-	M	-	NR	-	u	u	u		-
Great Blue Heron	<i>Ardea herodias herodias</i>	-	-	-	-	-	-	-	H	-	NR	-	c	u	c	u	-
American Bittern	<i>Botaurus lentiginosus</i>	-	E	G4	S2	R5	M	-	HH	-	-	-	r		o	r	S
Green Heron	<i>Butorides striatus</i>	-	-	G5	S4	-	-	-	M	-	LC	-	u	u	o		-
Cattle Egret	<i>Bubulcus ibis</i>	-	-	-	-	-	-	-	M	-	NR	-	r		r		-
Little Blue Heron	<i>Egretta caerulea</i>	-	-	-	-	-	M	-	HH	-	HC	-	o	o	o		-
Reddish Egret	<i>Egretta rufescens</i>	-	-	-	-	N	-	-	-	-	MC	-		x			-
•Snowy Egret	<i>Egretta thula</i>	-	-	G5	S1	R5	M	-	HH	-	HC	-	c	c	c		S
Tricolored Heron	<i>Egretta tricolor</i>	-	-	-	-	-	M	-	HH	-	HC	-	r	o	r		-
Least Bittern	<i>Ixobrychus exilis</i>	-	E	G5	S1	R5	M	-	HH	-	-	-	r	r			M
Yellow-crowned Night-Heron	<i>Nyctanassa violacea violacea</i>	-	-	-	-	-	M	-	H	-	MC	-		r	r		-
•Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	-	-	G5	S2	-	M	-	HH	-	MC	-	c	c	c	r	-
Ibises – Threskiornithidae																	
•Glossy Ibis	<i>Plegadis falcinellus</i>	-	-	-	-	-	H	-	HH	-	LC	-	o	u	o		-
New World Vultures – Cathartidae																	
Black Vulture	<i>Coragyps atratus</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Turkey Vulture	<i>Cathartes aura</i>	-	-	-	-	-	-	-	-	-	-	-	o	o	r		-
Swans, Geese, and Ducks – Anatidae																	
Wood Duck	<i>Aix sponsa</i>	-	-	-	-	-	M	-	-	H	-	-	r		r		M
•Northern Pintail	<i>Anas acuta acuta</i>	-	-	-	-	-	M	-	-	H	-	-	c	u	c	o	M
•American Wigeon	<i>Anas americana</i>	-	-	-	-	-	M	-	-	MH	-	-	c	o	c	u	-

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•Northern Shoveler	<i>Anas clypeata</i>	-	-	-	-	-	-	-	-	M	-	-	u	u	c	c	-
•Green-winged Teal	<i>Anas crecca carolinensis</i>	-	-	-	-	-	M	-	-	M	-	-	c	c	c	r	-
•Blue-winged Teal	<i>Anas discors orphan</i>	-	-	-	-	-	-	-	-	MH	-	-	c	u	c		-
Eurasian Wigeon	<i>Anas penelope</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	o	-
•Mallard	<i>Anas platyrhynchos</i>	-	-	-	-	-	H	-	-	H	-	-	c	c	c	c	-
•American Black Duck	<i>Anas rubripes</i>	-	-	G5	S4	-	HH	IIC	-	H	-	-	a	c	a	a	NMS
•Gadwall	<i>Anas strepera</i>	-	-	-	-	-	M	-	-	M	-	-	c	c	c	o	-
Greater White-fronted Goose	<i>Anser albifrons</i>	-	-	-	-	-	-	-	-	-	-	-				x	-
Redhead	<i>Aythya americana</i>	-	-	-	-	-	-	-	-	MH	-	-	r		r	r	-
Lesser Scaup	<i>Aythya affinis</i>	-	-	-	-	-	H	-	-	H	-	-	u		c	o	-
Ring-necked Duck	<i>Aythya collaris</i>	-	-	-	-	-	-	-	-	M	-	-	o		c	o	M
Tufted Duck	<i>Aythya fuligula</i>	-	-	-	-	-	-	-	-	-	-	-		x	x		-
Greater Scaup	<i>Aythya marila</i>	-	-	-	-	-	H	-	-	M	-	-	u		c	o	-
Canvasback	<i>Aythya valisineria</i>	-	-	-	-	-	H	-	-	MH	-	-	o		u	o	M
Canada Goose (resident)	<i>Branta canadensis</i>	-	-	-	-	-	-	-	-	AO	-	-					-
Canada Goose (Atlantic)	<i>Branta canadensis</i>	-	-	-	-	-	HH	-	-	H	-	-					-
Canada Goose (North Atlantic)	<i>Branta canadensis canadensis</i>	-	-	-	-	-	H	-	-	MH	-	-					-
Bufflehead	<i>Bucephala albeola</i>	-	-	-	-	-	H	-	-	M	-	-	c		c	c	M
Common Goldeneye	<i>Bucephala clangula americana</i>	-	-	-	-	-	M	-	-	MH	-	-	o		c	c	-
Barrow's Goldeneye	<i>Bucephala islandica</i>	-	-	-	-	-	-	-	-	M	-	-				r	-
Snow Goose	<i>Chen caerulescens</i>	-	-	-	-	-	-	-	-	AO	-	-	r		o		-
Atlantic Brant	<i>Circus cyaneus</i>	-	-	-	-	-	HH	-	-	ML	-	-	c	r	c	c	-
Long-tailed Duck	<i>Clangula hyemalis</i>	-	-	G5	SNRN	-	H	-	-	MH	-	-	c	r	a	c	N
Tundra Swan	<i>Cygnus columbianus columbianus</i>	-	-	-	-	-	H	-	-	ML	-	-			r		-

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•Mute Swan	<i>Cygnus olor</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
Fulvous Whistling Duck	<i>Dendrocygna bicolor</i>	-	-	-	-	-	-	-	-	ML	-	-	x		x		-
Harlequin Duck	<i>Histrionicus histrionicus</i>	-	-	G4	SNRN	-	M	-	-	M	-	-			r	r	-
Hooded Merganser	<i>Lophodytes cucullatus</i>	-	-	-	-	-	M	-	-	H	-	-	o		c	o	-
Black Scoter	<i>Melanitta americana</i>	-	-	-	-	-	H	-	-	MH	-	-	c	r	c	c	M
White-winged Scoter	<i>Melanitta fusca</i>	-	-	-	-	-	H	-	-	MH	-	-	c	r	a	c	MS
Surf Scoter	<i>Melanitta perspicillata</i>	-	-	-	-	-	H	-	-	MH	-	-	c	r	c	c	-
Common Merganser	<i>Mergus merganser americanus</i>	-	-	-	-	-	-	-	-	ML	-	-	o		u	o	NS
•Red-breasted Merganser	<i>Mergus serrator serrator</i>	-	-	-	-	-	M	-	-	ML	-	-	a	o	a	a	S
•Ruddy Duck	<i>Oxyura jamaicensis</i>	-	-	-	-	-	M	-	-	ML	-	-	o	r	c	o	-
Common Eider	<i>Somateria mollissima</i>	-	-	G5	S1	-	H	-	-	H	-	-	a	u	a	a	NS
King Eider	<i>Somateria spectabilis</i>	-	-	-	-	-	-	-	-	MH	-	-	r		r	r	-
Osprey, Kites, Hawks, and Eagles – Accipitridae																	
Cooper's Hawk	<i>Accipiter cooperii</i>	-	-	-	-	-	-	-	-	-	-	-	u		u	o	-
Northern Goshawk	<i>Accipiter gentilis</i>	-	-	-	-	-	-	-	-	-	-	-	r		r	r	-
Sharp-shinned Hawk	<i>Accipiter striatus velox</i>	-	SC	G5	S3	-	-	-	-	-	-	-	u		c	o	-
Red-shouldered Hawk	<i>Buteo lineatus lineatus</i>	-	-	-	-	-	-	-	-	-	-	-	r		r		M
Red-tailed Hawk	<i>Buteo jamaicensis</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
Rough-legged Hawk	<i>Buteo lagopus johannis</i>	-	-	-	-	-	-	-	-	-	-	-			r	r	-
Broad-winged Hawk	<i>Buteo platypterus</i>	-	-	G5	S5	-	H	-	-	-	-	-	r	r	r		-
Swainson's Hawk	<i>Buteo swainsoni</i>	-	-	-	-	N	-	-	-	-	-	-			x		-

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•Northern Harrier	<i>Circus cyaneus</i>	-	T	G5	S1	-	-	-	-	-	-	-	C	U	C	C	-
Bald Eagle	<i>Haliaeetus leucocephalus</i>	-	E	G4	S1	R5, N	M	-	-	-	-	-	O	O	O	r	-
Mississippi Kite	<i>Ictinia mississippiensis</i>	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-
Osprey	<i>Pandion haliaetus carolinensis</i>	-	-	-	-	-	-	-	-	-	-	-	C	U	U	-	-
Falcons – Falconidae																	
Merlin	<i>Falco columbarius</i>	-	-	-	-	-	-	-	-	-	-	-	O	-	U	O	-
Peregrine Falcon	<i>Falco peregrinus</i>	-	E	G4	S1	R5, N	-	IIC	-	-	-	-	U	-	C	O	-
Gyrfalcon	<i>Falco rusticolus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	r	r	-
American Kestrel	<i>Falco sparverius sparverius</i>	-	-	G5	S4	-	-	-	-	-	-	-	U	-	U	-	-
Pheasants – Phasianidae																	
Ring-necked Pheasant	<i>Phasianus colchicus</i>	-	-	-	-	-	-	-	-	-	-	-	r	-	r	r	-
Quail – Odontophoridae																	
Northern Bobwhite	<i>Colinus virginianus</i>	-	-	G5	S5	-	H	-	-	-	-	-	r	-	r	r	-
Rails – Rallidae																	
American Coot	<i>Fulica americana</i>	-	-	-	-	-	-	-	L	-	-	-	O	-	C	O	-
Common Moorhen	<i>Gallinula chloropus cachinnans</i>	-	SC	G5	S1	-	-	-	H	-	-	-	r	-	r	-	-
Purple Gallinule	<i>Porphyrio martinica</i>	-	-	-	-	-	-	-	M	-	-	-	-	-	X	-	-
•Sora	<i>Porzana carolina</i>	-	-	G5	S3	-	M	-	H	-	-	-	O	r	O	-	-
King Rail	<i>Rallus elegans</i>	-	T	G4	S1	-	M	-	HH	-	-	-	-	-	r	-	M
•Virginia Rail	<i>Rallus limicola</i>	-	-	-	-	-	-	-	M	-	-	-	r	r	O	-	N
Clapper Rail	<i>Rallus longirostris</i>	-	-	-	-	-	H	-	H	-	-	-	-	-	r	-	M

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Cranes – Gruidae																	
Sandhill Crane	<i>Grus canadensis</i>	-	-	-	-	-	-	-	-	-	-	-			X		-
Plovers – Charadriidae																	
•Piping Plover	<i>Charadrius melodus</i>	T	T	G3	S2	-	HH	IA	-	-	-	5	u	u	u		NMS
Semipalmated Plover	<i>Charadrius semipalmatus</i>	-	-	-	-	-	M	-	-	-	-	2	u	a	c		-
Killdeer	<i>Charadrius vociferous</i>	-	-	-	-	-	M	-	-	-	-	3	u		u		-
Wilson's Plover	<i>Charadrius wilsonia</i>	-	-	-	-	R5, N	H	-	-	-	-	4	x	x			-
American Golden Plover	<i>Pluvialis dominica</i>	-	-	-	-	-	H	-	-	-	-	4	r	r	u		-
Black-bellied Plover	<i>Pluvialis squatarola</i>	-	-	-	-	-	H	-	-	-	-	3	a	c	a	o	-
Oystercatchers – Haematopodidae																	
•American Oystercatcher	<i>Haematopus palliatus</i>	-	-	G5	S2	R5, N	HH	IA	-	-	-	4	c	c	c		S
Stilts and Avocets – Recurvirostridae																	
Black-necked Stilt	<i>Himantopus mexicanus</i>	-	-	-	-	-	-	-	-	-	-	2		x			-
American Avocet	<i>Recurvirostra americana</i>	-	-	-	-	-	M	-	-	-	-	3		x	x		-
Sandpipers and Phalaropes – Scolopacidae																	
•Spotted Sandpiper	<i>Actitis macularia</i>	-	-	-	-	-	M	-	-	-	-	2	o	o	r		-
Ruddy Turnstone	<i>Arenaria interpres</i>	-	-	G5	SNA	-	HH	-	-	-	-	4	c	o	c		-
Upland Sandpiper	<i>Bartramia longicauda</i>	-	E	G5	S1	R5, N	M	IB	-	-	-	4	r	o			S
Red Knot	<i>Calidris canutus rufa</i>	C	-	G5	S2	R5, N	HH	-	-	-	-	4	c	c	c	r	M
Sanderling	<i>Calidris alba</i>	-	-	G5	SNA	-	HH	-	-	-	-	4	a	a	a	u	M
Dunlin	<i>Calidris alpina</i>	-	-	-	-	N	H	-	-	-	-	3	a	u	a	u	-
Baird's Sandpiper	<i>Calidris bairdii</i>	-	-	-	-	-	-	-	-	-	-	2			r		-
Curlew Sandpiper	<i>Calidris ferruginea</i>	-	-	-	-	-	-	-	-	-	-	-	r	r			-

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White-rumped Sandpiper	<i>Calidris fuscicollis</i>	-	-	-	-	-	H	-	-	-	-	2	u	u	u		-
Stilt Sandpiper	<i>Calidris himantopus</i>	-	-	-	-	-	-	-	-	-	-	3		u	o		-
Purple Sandpiper	<i>Calidris maritima</i>	-	-	-	-	R5, N	H	-	-	-	-	2			r		NS
Western Sandpiper	<i>Calidris mauri</i>	-	-	-	-	-	M	-	-	-	-	4		o	u		-
Pectoral Sandpiper	<i>Calidris melanotos</i>	-	-	-	-	-	-	-	-	-	-	2	r	o	c		-
Little Stint	<i>Calidris minuta</i>	-	-	-	-	-	-	-	-	-	-	-		x			-
•Least Sandpiper	<i>Calidris minutilla</i>	-	-	-	-	-	M	-	-	-	-	3	c	a	c		-
Semipalmated Sandpiper	<i>Calidris pusilla</i>	-	-	-	-	R5, N	H	-	-	-	-	3	a	a	c		NS
Red-necked Stint	<i>Calidris ruficollis</i>	-	-	-	-	-	-	-	-	-	-	-	x	x			-
•Willet	<i>Catoptrophorus semipalmatus</i>	-	-	-	-	-	H	-	-	-	-	3	c	c	u		M
Common Snipe	<i>Gallinago gallinago</i>	-	-	-	-	-	M	-	-	-	-	3	r		o		-
Wandering Tattler	<i>Heteroscelus incanus</i>	-	-	-	-	-	-	-	-	-	-	3	x				-
Short-billed Dowitcher	<i>Limnodromus griseus</i>	-	-	G5	SNA	R5, N	H	-	-	-	-	4	c	a	c		-
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	-	-	-	-	-	-	-	-	-	-	2		o	o		-
Black-tailed Godwit	<i>Limosa limosa</i>	-	-	-	-	-	-	-	-	-	-	-		x			-
Marbled Godwit	<i>Limosa fedoa</i>	-	-	-	-	R5, N	H	-	-	-	-	4		o	u		-
Hudsonian Godwit	<i>Limosa haemastica</i>	-	-	-	-	R5, N	H	-	-	-	-	4		c	o		-
Bar-tailed Godwit	<i>Limosa lapponica</i>	-	-	-	-	N	-	-	-	-	-	4	x	x			-
Long-billed Curlew	<i>Numenius americanus</i>	-	-	-	-	N	-	-	-	-	-	5		x			-
Eurasian Curlew	<i>Numenius arquata</i>	-	-	-	-	-	-	-	-	-	-	-					-
Whimbrel	<i>Numenius phaeopus</i>	-	-	G5	SNA	R5, N	HH	-	-	-	-	4	r	c	c		-
Red Phalarope	<i>Phalaropus fulicarius</i>	-	-	-	-	-	M	-	-	-	-	3	r		r		-

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Red-necked Phalarope	<i>Phalaropus lobatus</i>	-	-	-	-	-	M	-	-	-	-	3	r	r	r	-	-
•Wilson's Phalarope	<i>Phalaropus tricolor</i>	-	-	-	-	-	H	-	-	-	-	4	r	o	r	-	-
Ruff	<i>Philomachus pugnax</i>	-	-	-	-	-	-	-	-	-	-	-	r	r	-	-	-
American Woodcock	<i>Scolopax minor</i>	-	-	G5	S4	-	HH	IA	-	-	-	4	r	-	r	-	N
Lesser Yellowlegs	<i>Tringa flavipes</i>	-	-	-	-	R5, N	M	-	-	-	-	3	r	c	c	-	-
Greater Yellowlegs	<i>Tringa melanleuca</i>	-	-	-	-	-	H	-	-	-	-	3	c	a	c	-	-
Solitary Sandpiper	<i>Tringa solitaria</i>	-	-	-	-	R5, N	H	-	-	-	-	4	r	r	r	-	-
Buff-breasted Sandpiper	<i>Tryngites subruficollis</i>	-	-	-	-	R5, N	H	-	-	-	-	4	-	-	r	-	-
Jaegers – Laridae																	
Long-tailed Jaeger	<i>Stercorarius longicaudus</i>	-	-	-	-	-	-	-	L	-	LC	-	-	-	r	-	-
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	-	-	-	-	-	-	-	L	-	LC	-	o	o	u	-	-
Pomarine Jaeger	<i>Stercorarius pomarinus</i>	-	-	-	-	-	-	-	L	-	LC	-	r	r	o	-	-
Gulls, Terns, and Skimmers – Laridae																	
Black Tern	<i>Chlidonias niger</i>	-	-	-	-	-	-	-	H	-	MC	-	o	u	u	-	-
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	-	-	-	-	-	-	-	L	-	MC	-	r	r	r	-	-
Gull-billed Tern	<i>Gelochelidon nilotica</i>	-	-	-	-	R5, N	HH	-	HH	-	HC	-	-	r	-	-	-
•Herring Gull	<i>Larus argentatus</i>	-	-	-	-	-	-	-	H	-	LC	-	a	a	a	a	-
•Laughing Gull	<i>Larus atricilla</i>	-	-	G5	S2	-	-	-	H	-	NR	-	c	a	c	-	-
Mew Gull	<i>Larus canus</i>	-	-	-	-	-	-	-	-	-	NR	-	-	-	x	-	-
Ring-billed Gull	<i>Larus delawarensis</i>	-	-	-	-	-	-	-	L	-	NR	-	c	c	c	c	-
Lesser Black-backed Gull	<i>Larus fuscus</i>	-	-	-	-	-	-	-	L	-	MC	-	r	r	u	o	-
Iceland Gull	<i>Larus glaucoides</i>	-	-	-	-	-	-	-	L	-	LC	-	r	-	r	o	-
Glaucous Gull	<i>Larus hyperboreus</i>	-	-	-	-	-	-	-	L	-	NR	-	r	-	r	r	-

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•Great Black-backed Gull	<i>Larus marinus</i>	-	-	-	-	-	-	-	L	-	NR	-	a	a	a	a	-
Little Gull	<i>Larus minutus</i>	-	-	-	-	-	-	-	M	-	HC	-	r	r	r		-
Bonaparte's Gull	<i>Larus philadelphia</i>	-	-	-	-	-	-	-	M	-	MC	-	u	o	c	o	-
Franklin's Gull	<i>Leucophaeus pipixcan</i>	-	-	-	-	-	-	-	-	-	MC	-			r		-
Bridled Tern	<i>Onychoprion anaethetus</i>	-	-	-	-	-	H	-	H	-	HC	-			x		-
Sooty Tern	<i>Onychoprion fuscatus</i>	-	-	-	-	-	-	-	-	-	MC	-		x	x		-
Ivory Gull	<i>Pagophila eburnea</i>	-	-	-	-	-	-	-	-	-	MC	-				x	-
Black-legged Kittiwake	<i>Rissa tridactyla</i>	-	-	-	-	-	-	-	L	-	NR	-	u	o	c	c	-
•Black Skimmer	<i>Rynchops niger</i>	-	-	-	-	R5, N	M	-	HH	-	HC	-	o	u	o		M
•Least Tern	<i>Sterna antillarum</i>	-	SC	G4	S3	R5, N	H	-	HH	-	HC	-	c	c			M
Caspian Tern	<i>Sterna caspia</i>	-	-	-	-	-	-	-	L	-	LC	-	r	r	r		-
•Roseate Tern	<i>Sterna dougallii</i>	E	E	G4T3	S2	-	HH	-	HH	-	HC	-	u	c	c		-
Forster's Tern	<i>Sterna forsteri</i>	-	-	-	-	-	H	-	H	-	MC	-		u	u		-
•Common Tern	<i>Sterna hirundo</i>	-	SC	G5	S3	-	M	-	HH	-	LC	-	a	a	c		NMS
Royal Tern	<i>Sterna maxima</i>	-	-	-	-	-	M	-	H	-	MC	-		o			-
•Arctic Tern	<i>Sterna paradisaea</i>	-	SC	G5	S1	R5	-	-	HH	-	HC	-	o	o			-
Sandwich Tern	<i>Sterna sandvicensis</i>	-	-	-	-	-	H	-	L	-	NR	-		r			-
Sabine's Gull	<i>Xema sabini</i>	-	-	-	-	-	-	-	L	-	LC	-	r	r	r		-
Alcids – Alcidae																	
Razorbill	<i>Alca torda</i>	-	-	-	-	-	M	-	H	-	MC	-	r		o	u	
Dovekie	<i>Alle alle</i>	-	-	-	-	-	-	-	L	-	MC	-			r	o	
Black Guillemot	<i>Cephus grylle</i>	-	-	-	-	-	-	-	M	-	NR	-				r	
Atlantic Puffin	<i>Fratercula arctica</i>	-	-	-	-	-	-	-	M	-	NR	-			r	r	
Common Murre	<i>Uria aalge</i>	-	-	-	-	-	-	-	M	-	MC	-				r	
Thick-billed Murre	<i>Uria lomvia</i>	-	-	-	-	-	-	-	L	-	MC	-				r	

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Doves – Columbidae																	
Rock Dove	<i>Columba livia</i>	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-
•Mourning Dove	<i>Zenaida macroura carolinensis</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	-
Cuckoos – Cuculidae																	
Black-billed Cuckoo	<i>Catharus bicknelli</i>	-	-	-	-	-	-	IA	-	-	-	-	r	r	0		-
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	-	-	-	-	N	-	-	-	-	-	-	r	r	0		-
Owls – Tytonidae																	
Barn Owl	<i>Tyto alba</i>	-	SC	G5	S2	-	-	-	-	-	-	-	r		r		-
Owls – Strigidae																	
Northern Saw-whet owl	<i>Aegolius acadicus</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
•Short-eared Owl	<i>Asio flammeus</i>	-	E	G5	S1	R5, N	-	IIC	-	-	-	-	r	r	0	r	-
Long-eared Owl	<i>Asio otus</i>	-	SC	G5	S2	-	-	-	-	-	-	-			r		-
Burrowing Owl	<i>Athene cucularia</i>	-	-	-	-	-	-	-	-	-	-	-		X			-
•Great Horned Owl	<i>Bubo virginianus</i>	-	-	-	-	-	-	-	-	-	-	-	U	U	U	U	-
Snowy Owl	<i>Nyctea scandiaca</i>	-	-	-	-	-	-	-	-	-	-	-				r	-
Eastern Screech Owl	<i>Otus asio</i>	-	-	-	-	-	-	-	-	-	-	-			r	r	-
Goatsuckers – Caprimulgidae																	
Whip-poor-will	<i>Caprimulgus vociferous</i>	-	-	G5	S4	R5	H	-	-	-	-	-	r		r		M
Common Nighthawk	<i>Chordeiles minor</i>	-	-	-	-	-	-	-	-	-	-	-	r		r		M
Swifts – Apodidae																	
Chimney Swift	<i>Chaetura pelagica</i>	-	-	-	-	-	H	IIA	-	-	-	-	0	0	0	0	-

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Hummingbirds – Trochilidae																	
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	u	-	-
Kingfishers – Alcedinidae																	
•Belted Kingfisher	<i>Ceryle alcyon</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	u	r	-
Woodpeckers – Picidae																	
•Northern Flicker	<i>Colaptes auratus</i>	-	-	-	-	-	H	-	-	-	-	-	c	u	c	u	-
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	r	r	-
Red-headed Woodpecker	<i>Melanerpes eurythrocephalus</i>	-	-	-	-	R5, N	M	IIC	-	-	-	-	r	u	r	-	-
•Downy Woodpecker	<i>Picoides pubescensmedianus</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	u	u	-
Hairy Woodpecker	<i>Picoides villosus</i>	-	-	-	-	-	-	IIA	-	-	-	-	o	o	o	o	-
Yellow-bellied Woodpecker	<i>Sphyrapicus varius</i>	-	-	-	-	-	-	-	-	-	-	-	r	o	o	-	-
Tyrant Flycatchers – Tyrannidae																	
Western Wood-Pewee	<i>Contopus sordidulus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-
Eastern Wood-Pewee	<i>Contopus virens</i>	-	-	-	-	-	-	IIA	-	-	-	-	o	o	u	-	M
Alder Flycatcher	<i>Empidonax alnorum</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	r	-	-
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	r	-	-
Least Flycatcher	<i>Empidonax minimus</i>	-	-	-	-	-	-	-	-	-	-	-	o	o	o	-	-
Willow Flycatcher	<i>Empidonax traillii</i>	-	-	G5	S4	N	H	-	-	-	-	-	o	o	o	-	S
Acadian Flycatcher	<i>Empidonax virescens</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	r	-	-
Olive-sided Flycatcher	<i>Mionectes olivaceus</i>	-	-	-	-	R5, N	-	-	-	-	-	-	r	u	r	-	-
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	-	-	-	-	-	H	-	-	-	-	-	o	u	r	-	-
Eastern Phoebe	<i>Sayornis phoebe</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	o	-	-

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Say's Phoebe	<i>Sayornis saya</i>	-	-	-	-	-	-	-	-	-	-	-			X		-
Scissor-tailed Flycatcher	<i>Tyrannus forficatus</i>	-	-	-	-	-	-	-	-	-	-	-			X		-
•Eastern Kingbird	<i>Tyrannus tyrannus</i>	-	-	-	-	-	H	-	-	-	-	-	U	U	U		-
Western Kingbird	<i>Tyrannus verticalis</i>	-	-	-	-	-	-	-	-	-	-	-		r	r		-
Cassin's Kingbird	<i>Tyrannus vociferans</i>	-	-	-	-	-	-	-	-	-	-	-			X		-
Shrikes – Laniidae																	
Northern Shrike	<i>Lanius excubitor</i>	-	-	-	-	-	-	-	-	-	-	-	r		r	R	-
Loggerhead Shrike	<i>Lanius ludovicianus</i>	-	-	-	-	R5, N	M	-	-	-	-	-			r		-
Vireos – Vireonidae																	
Yellow-throated Vireo	<i>Vireo flavifrons</i>	-	-	-	-	-	H	-	-	-	-	-			r		-
Warbling Vireo	<i>Vireo gilvus</i>	-	-	-	-	-	-	-	-	-	-	-	r		r		N
White-eyed Vireo	<i>Vireo griseus</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Red-eyed Vireo	<i>Vireo olivaceus</i>	-	-	-	-	-	-	-	-	-	-	-	0		U		-
Philadelphia Vireo	<i>Vireo philadelphicus</i>	-	-	-	-	-	-	-	-	-	-	-			0		-
Blue-headed Vireo	<i>Vireo solitarius</i>	-	-	-	-	-	-	-	-	-	-	-	r		U		-
Crows and Jays – Corvidae																	
•American Crow	<i>Corvus brachyrhynchos</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	-
Fish Crow	<i>Corvus ossifragus</i>	-	-	-	-	-	-	-	-	-	-	-	r	r			-
Blue Jay	<i>Cyanocitta cristata</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C	U	-
Larks – Alaudidae																	
•Horned Lark	<i>Eremophila alpestris</i>	-	-	-	-	N	-	-	-	-	-	-	C	C	C	U	-
Swallows – Hirundinidae																	
Barn Swallow	<i>Hirundo rustica</i>	-	-	-	-	-	-	-	-	-	-	-	C	U	0		-
Purple Martin	<i>Progne subis</i>	-	-	-	-	-	-	-	-	-	-	-	r	r			-
Cave Swallow	<i>Petrochelidon fulva</i>	-	-	-	-	-	-	-	-	-	-	-			X		-

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Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	-	-	-	-	-	-	-	-	-	-	-	r	r	r	r	-
Brown-chested Martin	<i>Progne tapera</i>	-	-	-	-	-	-	-	-	-	-	-		x			-
Bank Swallow	<i>Riparia riparia</i>	-	-	-	-	-	-	-	-	-	-	-	o	o			NM
•Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	-	-	-	-	-	-	-	-	-	-	-	u	u			-
•Tree Swallow	<i>Tachycineta bicolor</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	a		-
Chickadees and Titmice – Paridae																	
•Tufted Titmouse	<i>Baeolophus bicolor</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
•Black-capped Chickadee	<i>Poecile atricapilla</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
Nuthatches – Sittidae																	
Red-breasted Nuthatch	<i>Sitta canadensis</i>	-	-	-	-	-	-	-	-	-	-	-	u		u	u	-
White-breasted Nuthatch	<i>Sitta carolinensis</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	u	u	-
Creepers – Certhiidae																	
Brown Creeper	<i>Certhia americana</i>	-	-	-	-	-	-	-	-	-	-	-	o		u		-
Wrens – Troglodytidae																	
Marsh Wren	<i>Cistothorus palustris</i>	-	-	-	-	-	H	-	-	-	-	-			o		MS
Sedge Wren	<i>Cistothorus platensis</i>	-	E	G5	S1	R5	M	IIC	-	-	-	-			r		-
Carolina Wren	<i>Thryothorus ludovicianus</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	u	u	-
House Wren	<i>Troglodytes aedon</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Winter Wren	<i>Troglodytes troglodytes</i>	-	-	-	-	-	-	-	-	-	-	-	r		o		-
Kinglets – Regulidae																	
Ruby-crowned Kinglet	<i>Regulus calendula</i>	-	-	-	-	-	-	-	-	-	-	-	o		c		-
Golden-crowned Kinglet	<i>Regulus satrapa</i>	-	-	-	-	-	-	-	-	-	-	-	o		c	u	-

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Gnatcatchers – Sylviidae																	
Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>	-	-	-	-	-	-	-	-	-	-	-	0	0	0	-	-
Thrushes – Turdidae																	
Bicknell's Thrush	<i>Catharus bicknelli</i>	-	-	-	-	R5, N	H	-	-	-	-	-	r	r	r	-	N
Veery	<i>Catharus fuscescens</i>	-	-	-	-	-	-	-	-	-	-	-	r	0	0	-	-
Hermit Thrush	<i>Catharus guttatus</i>	-	-	-	-	-	-	-	-	-	-	-	r	u	u	-	-
Gray-cheeked Thrush	<i>Catharus minimus</i>	-	-	-	-	-	-	-	-	-	-	-	r	r	r	-	-
Swainson's Thrush	<i>Catharus ustulatus</i>	-	-	-	-	-	-	-	-	-	-	-	0	u	u	-	-
Wood Thrush	<i>Hylocichla mustelina</i>	-	-	G5	S5	R5, N	HH	IA	-	-	-	-	r	r	r	-	NMS
Northern Wheatear	<i>Oenanthe oenanthe</i>	-	-	-	-	-	-	-	-	-	-	-	-	x	x	-	-
Eastern Bluebird	<i>Sialia sialis</i>	-	-	-	-	-	-	-	-	-	-	-	r	r	0	r	-
•American Robin	<i>Turdus migratorius</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	u	-
Mimids – Mimidae																	
•Gray Catbird	<i>Dumetella carolinensis</i>	-	-	-	-	-	M	-	-	-	-	-	c	c	c	r	-
•Northern Mockingbird	<i>Mimus polyglottos</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	u	0	-
•Brown Thrasher	<i>Toxostoma rufum</i>	-	-	G5	S5	-	H	-	-	-	-	-	r	0	0	-	M
Starlings – Sturnidae																	
•European Starling	<i>Sturnus vulgaris</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
Pipits – Motacillidae																	
American Pipit	<i>Anthus rubescens</i>	-	-	-	-	-	-	-	-	-	-	-	0	u	u	-	-
Waxwings – Bombycillidae																	
Cedar Waxwing	<i>Bombycilla cedrorum</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	c	0	-
Wood - Warblers – Parulidae																	
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>	-	-	-	-	-	-	IB	-	-	-	-	r	0	0	-	-
Bay-breasted Warbler	<i>Dendroica castanea</i>	-	-	-	-	R5, N	H	-	-	-	-	-	r	0	0	-	-
Cerulean Warbler	<i>Dendroica cerulean</i>	-	-	-	-	R5, N	M	IB	-	-	-	-	-	r	r	-	-

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Yellow-rumped Warbler	<i>Dendroica coronata coronata</i>	-	-	-	-	-	-	-	-	-	-	-	c		a	o	-
Prairie Warbler	<i>Dendroica discolor</i>	-	-	G5	S5	R5, N	HH	IA	-	-	-	-	r		o		-
Yellow-throated Warbler	<i>Dendroica dominica</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Blackburnian Warbler	<i>Dendroica fusca</i>	-	-	-	-	-	M	IIC	-	-	-	-	r		o		N
Magnolia Warbler	<i>Dendroica magnaolia</i>	-	-	-	-	-	-	-	-	-	-	-	o		o		-
Palm Warbler	<i>Dendroica palmarum</i>	-	-	-	-	-	-	-	-	-	-	-	o		c		N
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	-	-	-	-	-	-	-	-	-	-	-	r		o		NS
•Yellow Warbler	<i>Dendroica petechia</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	o		-
•Pine Warbler	<i>Dendroica pinus</i>	-	-	-	-	-	-	-	-	-	-	-	u	o	o		-
Blackpoll Warbler	<i>Dendroica striata</i>	-	SC	G5	S1	-	-	-	-	-	-	-	o		u		N
Cape May Warbler	<i>Dendroica tigrina</i>	-	-	-	-	-	-	-	-	-	-	-	r		o		-
Black-throated Green Warbler	<i>Dendroica virens</i>	-	-	-	-	-	-	-	-	-	-	-	o		o		-
•Common Yellowthroat	<i>Geothlypis trichas</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c		-
Worm-eating Warbler	<i>Helmitheros vermivorus</i>	-	-	-	-	R5, N	H	IA	-	-	-	-			r		M
Yellow-breasted Chat	<i>Icteria virens</i>	-	-	-	-	-	-	-	-	-	-	-			o		-
Black-and-white Warbler	<i>Mniotilta varia</i>	-	-	-	-	-	H	IIA	-	-	-	-	u		u		M
Connecticut Warbler	<i>Oporornis agilis</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Kentucky Warbler	<i>Oporornis formosus</i>	-	-	-	-	R5, N	H	IB	-	-	-	-			r		M
Mourning Warbler	<i>Oporornis philadelphia</i>	-	SC	G5	S1	-	-	-	-	-	-	-	r		r		-
Northern Parula	<i>Parula americana</i>	-	T	G5	S2	-	-	-	-	-	-	-	o		o		-
Prothonotary Warbler	<i>Protonotaria citrea</i>	-	-	-	-	N	H	-	-	-	-	-	r		r		M
Ovenbird	<i>Seiurus aurocapillus</i>	-	-	-	-	-	-	-	-	-	-	-	r		o		NMS

Common Name	Scientific Name	Federal Legal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	BC ⁷	BCR 30 ⁸	PIF 09 ⁹	MANEM ¹⁰	NAWMP ¹¹	NAWCP ¹²	U.S. SCP ¹³	Spring ¹⁴	Summer ¹⁴	Fall ¹⁴	Winter ¹⁴	NALC Rep. Species ¹⁵
Northern Waterthrush	<i>Seiurus noveboracensis</i>	-	-	-	-	-	-	-	-	-	-	-	0		u		NS
American Redstart	<i>Setophaga ruticilla</i>	-	-	-	-	-	-	-	-	-	-	-	0		u		-
Orange-crowned Warbler	<i>Vermivora celata</i>	-	-	-	-	-	-	-	-	-	-	-			0		-
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	-	-	-	-	R5, N	M	IB	-	-	-	-	r		r		-
Tennessee Warbler	<i>Vermivora peregrina</i>	-	-	-	-	-	-	-	-	-	-	-	r		0		-
Blue-winged Warbler	<i>Vermivora pinus</i>	-	-	G5	S3	R5, N	HH	IA	-	-	-	-	r		0		S
Nashville Warbler	<i>Vermivora ruficapilla</i>	-	-	-	-	-	-	-	-	-	-	-	r		0		-
Canada Warbler	<i>Wilsonia canadensis</i>	-	-	G5	S5	R5, N	M	IIC	-	-	-	-	r		0		-
Hooded Warbler	<i>Wilsonia citrina</i>	-	-	-	-	-	-	-	-	-	-	-	r		r		-
Wilson's Warbler	<i>Wilsonia pusilla</i>	-	-	-	-	-	-	-	-	-	-	-	r		0		-
Tanagers – Thraupidae																	
Scarlet Tanager	<i>Piranga olivacea</i>	-	-	-	-	-	-	IA	-	-	-	-	r		0		-
Summer Tanager	<i>Piranga rubra</i>	-	-	-	-	-	-	-	-	-	-	-	r		r		-
Emberizine Sparrows and Their Allies – Emberizidae																	
•Saltmarsh Sparrow	<i>Ammodramus caudacutus</i>	-	-	G4	S3	R5, N	HH	IA	-	-	-	-	c	c	0		MS
Henslow's Sparrow	<i>Ammodramus henslowii</i>	-	E	G4	S1	R5, N	M	IB	-	-	-	-			r		-
LeConte's Sparrow	<i>Ammodramus lecontei</i>	-	-	-	-	-	-	-	-	-	-	-			x		-
•Seaside Sparrow	<i>Ammodramus maritimus</i>	-	-	G4	S2	R5, N	HH	IA	-	-	-	-		r	r		-
Nelson's Sharp-tailed Sparrow	<i>Ammodramus nelsoni</i>	-	-	-	-	R5, N	M	-	-	-	-	-			r		N
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	-	T	G5	S2	-	M	-	-	-	-	-			r		M

Common Name	Scientific Name	Federal Legal Status ¹	MA Legal Status ¹	Global Rarty Rank ²	MA Rarty Rank ³	BC7	BCR 308	PIF 099	MANEM ¹⁰	NAWMP ¹¹	NAWCP ¹²	U.S. SCP ¹³	Spring ¹⁴	Summer ¹⁴	Fall ¹⁴	Winter ¹⁴	NALC Rep. Species ¹⁵
Lark Bunting	<i>Calamospiza melanocorys</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Lapland Longspur	<i>Calcarius lapponicus</i>	-	-	-	-	-	-	-	-	-	-	-	u		u	o	-
Lark Sparrow	<i>Chondestes grammacus</i>	-	-	-	-	-	-	-	-	-	-	-		r	r		-
Dark-eyed Junco	<i>Junco hyemalis</i>	-	-	-	-	-	-	-	-	-	-	-	u		c	o	-
Swamp Sparrow	<i>Melospiza georgiana</i>	-	-	-	-	-	-	-	-	-	-	-	r		u		-
Lincoln's Sparrow	<i>Melospiza lincolni</i>	-	-	-	-	-	-	-	-	-	-	-			o		-
•Song Sparrow	<i>Melospiza melodia</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
•Savannah Sparrow	<i>Passerculus sandwichensis</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	-
Fox Sparrow	<i>Passerella iliaca</i>	-	-	-	-	-	-	-	-	-	-	-			o		-
•Eastern Towhee	<i>Pipilo erythrophthalmus</i>	-	-	G5	S5	-	H	IIA	-	-	-	-	u	r	u		NM
Snow Bunting	<i>Plectrophenax nivalis</i>	-	-	-	-	-	-	-	-	-	-	-	o		c	c	-
Vesper Sparrow	<i>Poocetes gramineus</i>	-	T	G5	S2	-	-	-	-	-	-	-			r		-
American Tree Sparrow	<i>Spizella arborea</i>	-	-	-	-	-	-	-	-	-	-	-			o	o	-
Clay-colored Sparrow	<i>Spizella pallida</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
•Chipping Sparrow	<i>Spizella passerina</i>	-	-	-	-	-	-	-	-	-	-	-	u	u	u		-
Field Sparrow	<i>Spizella pusilla</i>	-	-	G5	S5	-	H	-	-	-	-	-	r		o		S
White-throated Sparrow	<i>Zonotrichia albicollis</i>	-	-	G5	S5	-	-	-	-	-	-	-	u		c		N
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	-	-	-	-	-	-	-	-	-	-	-	r		u		-
Cardinals and Grosbeaks – Cardinalidae																	
•Northern Cardinal	<i>Cardinalis cardinalis</i>	-	-	-	-	-	-	-	-	-	-	-	c	c	c	c	
Blue Grosbeak	<i>Guiraca caerulea caerulea</i>	-	-	-	-	-	-	-	-	-	-	-	r		r		-
Painted Bunting	<i>Passerina ciris</i>	-	-	-	-	-	-	-	-	-	-	-	x		x		-

Common Name	Scientific Name	Federal Legal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	BC7	BCR 308	PIF 099	MANEM ¹⁰	NAWMP ¹¹	NAWCP ¹²	U.S. SCP ¹³	Spring ¹⁴	Summer ¹⁴	Fall ¹⁴	Winter ¹⁴	NALC Rep. Species ¹⁵
Indigo Bunting	<i>Passerina cyanea</i>	-	-	-	-	-	-	-	-	-	-	-	0		U		-
Rose-breasted Grosbeak	<i>Phoebastria ludovicianus</i>	-	-	-	-	-	-	IIA	-	-	-	-	0		U		-
Dickcissel	<i>Spiza americana</i>	-	-	-	-	-	-	-	-	-	-	-			r		-
Blackbirds and Orioles – Icterids																	
•Red-winged Blackbird	<i>Agelaius phoeniceus</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C		-
Bobolink	<i>Dolichonyx oryzivorus</i>	-	-	-	-	-	-	III	-	-	-	-	0		C		NS
Rusty Blackbird	<i>Euphagus carolinus</i>	-	-	-	-	R5, N	H	-	-	-	-	-			U		-
Baltimore Oriole	<i>Icterus galbula</i>	-	-	-	-	-	H	1A	-	-	-	-	U	U	C		-
Orchard Oriole	<i>Icterus spurius</i>	-	-	-	-	-	-	-	-	-	-	-	r	r			-
Brown-headed Cowbird	<i>Molothrus ater</i>	-	-	-	-	-	-	-	-	-	-	-	U	U	U		-
Eastern Meadowlark	<i>Sturnella magna</i>	-	-	G5	S4	-	-	-	-	-	-	-	r	0	0		MS
•Common Grackle	<i>Quiscalus quiscula</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C		-
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	-	-	-	-	-	-	-	-	-	-	-		r	r		-
Finches – Fringillidae																	
Common Redpoll	<i>Carduelis flammea</i>	-	-	-	-	-	-	-	-	-	-	-				r	-
•American Goldfinch	<i>Carduelis tristis</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	-
Purple Finch	<i>Carpodacus purpureus</i>	-	-	-	-	-	-	2A	-	-	-	-	0		0	r	-
•House Finch	<i>Carpodacus mexicanus</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	-
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	-	-	-	-	-	-	-	-	-	-	-	r		r	r	-
Red Crossbill	<i>Loxia curvirostra</i>	-	-	-	-	-	-	-	-	-	-	-	r	r	r	r	-
White-winged Crossbill	<i>Loxia leucoptera</i>	-	-	-	-	-	-	-	-	-	-	-	r	r	r	r	-
Pine Grosbeak	<i>Pinicola enucleator</i>	-	-	-	-	-	-	-	-	-	-	-				r	-
Pine Siskin	<i>Spinus pinus</i>	-	-	-	-	-	-	-	-	-	-	-	r	0	0	r	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarty Rank ²	MA Rarty Rank ³	BCG ⁷	BCR 30 ⁸	PIF 09 ⁹	MANEM ¹⁰	NAWMP ¹¹	NAWCP ¹²	U.S. SCP ¹³	Spring ¹⁴	Summer ¹⁴	Fall ¹⁴	Winter ¹⁴	NALC Rep. Species ¹⁵
Old World Sparrows – Passeridae																	
House Sparrow	<i>Passer domesticus</i>	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	-

Source: Data adapted from the Monomoy National Wildlife Refuge Bird List prepared with the assistance of Blair Nikula.

•Denotes species suspected to have been breeding on the refuge over the past 20 years.

Table A.5. Mammal Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarty Rank ²	MA Rarty Rank ³	NOAA Fisheries Listing ⁴	NALC Rep. Species ¹⁵
Opossums – Didelphidae							
Virginia Opossum	<i>Didelphis virginiana</i>	-	-	-	-	-	-
Tree Squirrels and Marmots – Sciuridae							
Eastern Gray Squirrel	<i>Sciurus carolinensis</i>	-	-	-	-	-	-
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	-	-	-	-	-	-
Eastern Chipmunk	<i>Tamias striatus</i>	-	-	-	-	-	-
Shrews – Soricidae							
Northern Short-tailed Shrew	<i>Blarina brevicauda</i>	-	-	-	-	-	-
Masked Shrew (Cinereus)	<i>Sorex cinereus</i>	-	-	-	-	-	-
Plainnose Bats – Vespertilionidae							
Big Brown Bat	<i>Eptesicus fuscus</i>	-	-	-	-	-	-
Eastern Red Bat	<i>Lasiurus borealis</i>	-	-	G5	S4	-	NMS
Hoary Bat	<i>Lasiurus cinereus</i>	-	-	G5	SU	-	-
Raccoons, Coatis, and Ringtails – Procyonidae							
Raccoon	<i>Procyon lotor</i>	-	-	-	-	-	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	NALCC Rep. Species ¹⁵
Weasels, Mink, Martens, and Otters – Mustelidae							
North American River Otter	<i>Lutra canadensis</i>	-	-	-	-	-	-
Skunks – Mephitidae							
Striped Skunk	<i>Mephitis mephitis</i>	-	-	-	-	-	-
Dogs, Foxes, and Wolves – Canidae							
Eastern Coyote	<i>Canis latrans</i>	-	-	-	-	-	-
Red Fox	<i>Vulpes vulpes</i>	-	-	-	-	-	-
Cats – Felidae							
Domestic Cat	<i>Felis catus</i>	-	-	-	-	-	-
Hair Seals – Phocidae							
Hooded Seal	<i>Cystophora cristata</i>	-	-	-	-	-	-
Gray Seal	<i>Halichoerus grypus</i>	-	-	-	-	-	-
Harp Seal	<i>Pagophilus groenlandicus</i>	-	-	-	-	-	-
Harbor Seal	<i>Phoca vitulina</i>	-	-	-	-	-	-
Mice, Rats, Voles, and Lemmings – Cricetidae							
Meadow Vole	<i>Microtus pennsylvanicus</i>	-	-	-	-	-	-
Common Muskrat	<i>Ondatra zibethicus</i>	-	-	-	-	-	-
White-footed Mouse	<i>Peromyscus leucopus</i>	-	-	-	-	-	-
Old World Rats and Mice – Muridae							
House Mouse	<i>Mus musculus</i>	-	-	-	-	-	-
Jumping Mice – Dipodidae							
Meadow Jumping Mouse	<i>Zapus hudsonius</i>	-	-	-	-	-	-
Hares and Rabbits – Leporidae							
Eastern Cottontail	<i>Sylvilagus floridanus</i>	-	-	-	-	-	-
Deer, Elk, and Moose – Cervidae							
White-tailed Deer	<i>Odocoileus virginianus</i>	-	-	-	-	-	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	NALCC Rep. Species ¹⁵
Sperm Whale – Physteridae							
Sperm Whale	<i>Physeter macrocephalus</i>	E	E	G3G4	S1	E/D	-
Dolphins and Porpoises – Delphinidae							
Short-Beaked Common Dolphin	<i>Delphinus delphis</i>	-	-	-	-	-	-
Short-finned Pilot Whale	<i>Globicephala macrohynchus</i>	-	-	-	-	-	-
Long-finned Dolphin	<i>Globicephala melas</i>	-	-	-	-	-	-
Risso's Dolphin	<i>Grampus griseus</i>	-	-	-	-	-	-
Atlantic White-sided Dolphin	<i>Lagenorhynchus acutus</i>	-	-	-	-	-	-
White-beaked Dolphin	<i>Lagenorhynchus albirostris</i>	-	-	-	-	-	-
Harbor Porpoise	<i>Phocoena phocoena</i>	-	-	G4G5	S4	-	-
Northern Bottlenose Dolphin	<i>Tursiops truncatus</i>	-	-	-	-	D	-
Finback Whales - Balaenopteridae							
Minke Whale	<i>Balaenoptera acutorostrata</i>	-	-	-	-	-	-
Sei Whale	<i>Balaenoptera borealis</i>	E	E	G3	S1S2	E/D	-
Blue Whale	<i>Balaenoptera musculus</i>	E	E	G3G4	S1	E/D	-
Fin Whale	<i>Balaenoptera physalus</i>	E	E	G3G4	S1S2	E/D	-
Humpback Whale	<i>Megaptera novaeangliae</i>	E	E	G3	S1S2	E/D	-
Right and Bowhead Whales - Balaenidae							
North Atlantic Right Whale	<i>Eubalaena glacialis</i>	E	E	G1	S1S2	E/D	-

Source: Data assembled from the Massachusetts Division of Fisheries and Wildlife, State Mammal List—Species Distribution, in addition to staff observations of wildlife on the refuge.

Table A.6. Butterfly and Moth Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NALCC Rep. Species ¹⁵
Swallowtails – Papilionidae						
Eastern Tiger Swallowtail	<i>Papilio glaucus</i>	-	-	-	-	-
Black Swallowtail	<i>Papilio polyxenes</i>	-	-	-	-	-
Whites, Sulphurs, and Orange Tips – Pieridae						
Orange Sulphur	<i>Colias eurytheme</i>	-	-	-	-	-
Clouded Sulphur	<i>Colias philodice</i>	-	-	-	-	-
Cloudless Sulphur	<i>Phoebis sennae</i>	-	-	-	-	-
Cabbage White	<i>Pieris rapae</i>	-	-	-	-	-
Gossamer-winged Butterflies - Lycaenidae						
Brown Elfin	<i>Callophrys augustinus</i>	-	-	-	-	-
Spring Azure	<i>Celastrina ladon</i>	-	-	-	-	-
'Summer' Spring Azure	<i>Celastrina neglecta</i>	-	-	-	-	-
American Copper	<i>Lycaena phlaeas</i>	-	-	-	-	-
Brush-footed Butterflies – Nymphalidae						
Common Wood Nymph	<i>Cercyonis pegala</i>	-	-	-	-	-
Variagated Fritillary	<i>Euptoieta claudia</i>	-	-	-	-	-
Common Buckeye	<i>Junonia coenia</i>	-	-	-	-	-
Viceroy	<i>Limenitis archippus</i>	-	-	-	-	-
Mourning Cloak	<i>Nymphalis antiopa</i>	-	-	-	-	-
Pearl Crescent	<i>Phyciodes tharos</i>	-	-	-	-	-
Question Mark	<i>Polygonia interrogatoris</i>	-	-	-	-	-
Red Admiral	<i>Vanessa atalanta</i>	-	-	-	-	-
Painted Lady	<i>Vanessa cardui</i>	-	-	-	-	-
American Lady	<i>Vanessa virginiensis</i>	-	-	-	-	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NALCC Rep. Species ¹⁵
Milkweed Butterflies - Danaidae									
Monarch	<i>Danaus plexippus</i>	-	-	-	-	-	-	-	-
Skippers – Hesperidae									
Dun Skipper	<i>Euphyes vestris</i>	-	-	-	-	-	-	-	-
Long-tailed Skipper	<i>Urbanus proteus</i>	-	-	-	-	-	-	-	-

Source: Data assembled from observations of Massachusetts Butterfly Club members at Monomoy NWR from 1991 to 2010.

Table A.7. Dragonfly and Damselfly Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NALCC Rep. Species ¹⁵
Pond Damsel – Coenagrionidae									
•Familiar Bluet	<i>Enallagma civile</i>	-	-	-	-	-	-	-	-
Citrine Forktail	<i>Ischnura hastata</i>	-	-	-	-	-	-	-	-
Fragile Forktail	<i>Ischnura posita</i>	-	-	-	-	-	-	-	-
Rambur’s Forktail	<i>Ischnura ramburi</i>	-	-	-	-	-	-	-	-
•Eastern Forktail	<i>Ischnura verticalis</i>	-	-	-	-	-	-	-	-
Damer – Aeshnidae									
Common Green Darner	<i>Anax junius</i>	-	-	-	-	-	-	-	-
Swamp Darner	<i>Epiaeschna heros</i>	-	-	-	-	-	-	-	-
Skimmer – Libellulidae									
Calico Pennant	<i>Cellithemis elisa</i>	-	-	-	-	-	-	-	-
Eastern Pondhawk	<i>Erythemis simplicicollis</i>	-	-	-	-	-	-	-	-
•Seaside Dragonlet	<i>Erythrodiplax berenice</i>	-	-	-	-	-	-	-	-
•Needham’s Skimmer	<i>Libellula needhami</i>	-	-	-	-	-	-	-	-
Twelve-spotted Skimmer	<i>Libellula pulchella</i>	-	-	-	-	-	-	-	-
Painted Skimmer	<i>Libellula semifasciata</i>	-	-	-	-	-	-	-	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NALC Rep. Species ¹⁵
Great Blue Skimmer	<i>Libellula vibrans</i>	-	-	-	-	-
Blue Dasher	<i>Pachydiplax longipennis</i>	-	-	-	-	-
Wandering Glider	<i>Pantala flavescens</i>	-	-	-	-	-
Spot-winged Glider	<i>Pantala hymenaea</i>	-	-	-	-	-
Eastern Amberwing	<i>Perithemis tenera</i>	-	-	-	-	-
Common Whitetail	<i>Plathemis lydia</i>	-	-	-	-	-
Variiegated Meadowhawk	<i>Sympetrum corruptum</i>	-	-	-	-	-
•Saffron-bordered Meadowhawk	<i>Sympetrum costiferum</i>	-	-	-	-	-
Cherry-faced (Ruby) Meadowhawk	<i>Sympetrum internum/tubicundulum</i>	-	-	-	-	-
Striped Saddlebags	<i>Tramea calverti</i>	-	-	-	-	-
Carolina Saddlebags	<i>Tramea carolina</i>	-	-	-	-	-
Black Saddlebags	<i>Tramea lacerata</i>	-	-	-	-	-

Source: Data collected from observations by Blair Nikula of Odonata on the refuge.

•Denotes species suspected to have been breeding on the refuge over the past 20 years.

Table A.8. Tiger Beetle Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NALC Rep. Species ¹⁵
Ground Beetles, Scarab Beetles, and Tiger Beetles - Carabidae						
•Northeastern beach tiger beetle	<i>Cicindela dorsalis dorsalis</i>	T	E	G4T2	S1	-
•Hairy-necked Tiger Beetle	<i>Cicindela hirticollis hirticollis</i>	-	-	-	-	-
•Hairy-necked Tiger Beetle (subspecies)	<i>Cicindela hirticollis rhodensis</i>	-	-	-	-	-
•Saltmarsh Tiger Beetle	<i>Cicindela marginata</i>	-	-	-	-	-
Bronzed Tiger Beetle	<i>Cicindela repanda</i>	-	-	-	-	-

Source: Data collected from Northeastern Beach Tiger Beetle Surveys completed by Neil Kapitulik.

•Denotes species suspected to have been breeding on the refuge over the past 20 years.

Table A.9. Crustacean Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALCC Rep. Species ¹⁵
Mantis Shrimp										
Mantis Shrimp unclassified	Order Stomatopoda	-	-	-	-	-	-	1.5	0.7	-
Shrimp – Crangonidae										
Sand Shrimp	<i>Crangon septemspinosa</i>	-	-	-	-	-	-	NA	NA	-
Lobster – Nephropsidae										
American Lobster	<i>Homarus americanus</i>	-	-	-	-	-	-	27.7	9.7	-
Hermit Crabs – Paguridae										
Hermit Crab unclassified	<i>Paguroidea</i> spp.	-	-	-	-	-	-	NA	NA	-
Long-clawed Hermit Crab	<i>Pagurus longicarpus</i>	-	-	-	-	-	-	NA	NA	-
True Crabs – Calappidae										
Flame Box Crab	<i>Calappa flammea</i>	-	-	-	-	-	-	0	0.2	-
True Crabs – Majidae										
Spider Crab unclassified	Family Majidae	-	-	-	-	-	-	88.2	77.9	-
True Crabs – Cancridae										
Jonah Crab	<i>Cancer borealis</i>	-	-	-	-	-	-	0.5	0.5	-
Atlantic Rock Crab	<i>Cancer irroratus</i>	-	-	-	-	-	-	69	35.9	-
True Crabs – Portunidae										
Blue Crab	<i>Callinectes sapidus</i>	-	-	-	-	-	-	1.2	1	-
Green Crab	<i>Carcinus maenas</i>	-	-	-	-	-	-	NA	NA	-
Lady (Calico) Crab	<i>Ovalipes ocellatus</i>	-	-	-	-	-	-	44.3	67.5	-
Amphipods – Ampeliscitidae										
-	<i>Ampelisca abdita</i>	-	-	-	-	-	-	NA	NA	-
Amphipods – Gammaridae										
Scuds	<i>Gammarus</i> spp.	-	-	-	-	-	-	NA	NA	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Amphipods – Haustoriidae										
-	<i>Haustorius canadensis</i>	-	-	-	-	-	-	NA	NA	-
-	<i>Acanthohaustorius millisi</i>	-	-	-	-	-	-	NA	NA	-
Arthropods – Diastylidae										
-	<i>Dastylis polita</i>	-	-	-	-	-	-	NA	NA	-
-	<i>Oxyurostylis smithi</i>	-	-	-	-	-	-	NA	NA	-
Arthropods – Idoteidae										
-	<i>Edotea triloba</i>	-	-	-	-	-	-	NA	NA	-
-	<i>Chirodotea coeca</i>	-	-	-	-	-	-	NA	NA	-

Source: Data assembled from the Massachusetts Division of Marine Fisheries Nantucket Sound Spring and Fall Trawl Surveys from 1978 to 2010; the Nantucket Sound Estuarine Winter Flounder Seine Surveys 1976 to 2010; Weiss 1995; and Leavitt and Peters 2005.

Table A.10. Bivalve Species Known or Suspected on Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Bivalves – Mytilidae										
Northern Horse Mussel*	<i>Modiolus modiolus</i>	-	-	-	-	-	-	0	0.7	-
Blue Mussel*	<i>Mytilus edulis</i>	-	-	-	-	-	-	2.3	1.7	-
Bivalves – Pectinidae										
Bay Scallop	<i>Argopecten irradians</i>	-	-	-	-	-	-	5.1	4.8	-
Sea Scallop	<i>Placopecten magellanicus</i>	-	-	-	-	-	-	1.7	0	-
Bivalves – Arctiidae										
Ocean Quahog	<i>Arctica islandica</i>	-	-	-	-	-	-	0.3	0.2	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Bivalves – Veneridae										
Northern Quahog	<i>Mercenaria mercenaria</i>	-	-	-	-	-	-	0.2	0.5	-
Amethyst Gem Clam	<i>Gemma gemma</i>									
Bivalves – Macrtridae										
Atlantic Surf Clam	<i>Spisula solidissima</i>	-	-	-	-	-	-	3.6	3.1	-
Bivalves – Solenidae										
Razor Clam	<i>Ensis directus</i>	-	-	-	-	-	-	NA	NA	-
Bivalves – Myiidae										
Softshell Clam	<i>Mya arenaria</i>	-	-	-	-	-	-	NA	NA	-
Bivalves – Tellinidae										
Baltic Clam	<i>Macoma balthica</i>	-	-	-	-	-	-	NA	NA	-
Northern Dwarf Tellin	<i>Tellina agilis</i>	-	-	-	-	-	-	NA	NA	-
Bivalves – Solemyidae										
Atlantic Awning Clam	<i>Solemya velum</i>	-	-	-	-	-	-	NA	NA	-
Bivalves – Periplomatidae										
-	<i>Periploma papyratum</i>	-	-	-	-	-	-	NA	NA	-

Source: Data assembled from the Massachusetts Division of Marine Fisheries Nantucket Sound Spring and Fall Trawl Surveys from 1978 to 2010; the Nantucket Sound Estuarine Winter Flounder Seine Surveys 1976 to 2010; Weiss 1995; and Leavitt and Peters 2005.

Table A.11. Miscellaneous Marine Invertebrate Species at Monomoy NWR.

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Shelled Gastropods - Melongenidae										
Channeled Whelk	<i>Busyconyx canaliculatus</i>	-	-	-	-	-	-	54.7	48.7	-
Knobbed Whelk	<i>Busycon carica</i>	-	-	-	-	-	-	26.4	53.8	-

Common Name	Scientific Name	Federal Status ¹	MA Legal Status ¹	Global Rarity Rank ²	MA Rarity Rank ³	NOAA Fisheries Listing ⁴	AFS Status ⁵	Spring Occurrence (%) ⁶	Fall Occurrence (%) ⁶	NALC Rep. Species ¹⁵
Moon Snails – Naticidae										
Northern Moonsnail	<i>Euspira heros</i>	-	-	-	-	-	-	3.2	0.5	-
Moon Snail/Shark Eye*	Family Naticidae	-	-	-	-	-	-	24.4	8.2	-
-	<i>Neverita (Polynices) duplicata</i>	-	-	-	-	-	-	NA	NA	-
Mud Snails – Nassariidae										
Eastern Mudsnail	<i>Ilyanassa obsoletus</i>	-	-	-	-	-	-	NA	NA	-
Dove Snails – Columbellidae										
Dove Snails	<i>Anachis avara</i>	-	-	-	-	-	-	NA	NA	-
Mud Snails – Hydrobiidae										
-	<i>Hydrobia</i> spp.	-	-	-	-	-	-	NA	NA	-
Chalice Bubble Snails – Cylichnidae										
Channeled Barrel-bubble	<i>Acteocina canaliculata</i>	-	-	-	-	-	-	NA	NA	-
Squids and Octopuses - Loliginidae										
Longfin Squid	<i>Loligo pealaili</i>	-	-	-	-	-	-	90.5	99.8	-
Squids and Octopuses – Ommastrephidae										
Northern Shortfin Squid	<i>Illex illecebrosus</i>	-	-	-	-	-	-	0.8	0	-
Horseshoe Crabs – Limulidae										
Horseshoe Crab	<i>Limulus polyphemus</i>	-	-	-	-	-	-	20.7	23.1	MS
Sea Urchins – Strongylocentrotidae										
Sea urchin unclassified (Green Urchin)	<i>Strongylocentrotus drobachiensis</i>	-	-	-	-	-	-	0.3	0	-

Source: Data assembled from the Massachusetts Division of Marine Fisheries Nantucket Sound Spring and Fall Trawl Surveys from 1978 to 2010 and the Nantucket Sound Estuarine Winter Flounder Seine Surveys 1976 to 2010; Weiss 1995; Leavitt and Peters 2005.

Table A.12. Miscellaneous Terrestrial Invertebrates Known to be Present on Monomoy NWR.

Order/Class	Examples of species within the order that may occur on the refuge
Amphipoda	Amphipods
Arachnida	Harvestmen, mites, ticks, spiders
Diptera	Flies
Hymenoptera	Sawflies, ichneumons, chalcids, ants, wasps, bees
Neuroptera	Dobsonflies, fishflies, alderflies, lacewings, antlions
Orthoptera	Grasshoppers, crickets, cockroaches, mantids, walkingsticks
Siphonoptera	Fleas
Zoraptera	Zorapterans

Source: Data assembled from the Effects of Herring Gulls and Great Black-backed Gulls on Breeding Piping Plovers, South Monomoy Island, Massachusetts, Keane 2002.

Table A.13. Marine Worms Known or Suspected at Monomoy NWR.

Common Name	Scientific Name
Phylum Nemertea	
Milky Ribbon Worm	<i>Cerebratulus lacteus</i>
Micruran Nemerteans	<i>Micrura</i> spp.
Phylum Annelida – Class Polychaeta – Family Capitellidae	
-	<i>Capitella capitata</i>
-	<i>Heteromastus filiformis</i>
Phylum Annelida – Class Polychaeta – Family Orbiniidae	
-	<i>Scoloplos fragilis</i>
-	<i>Scoloplos acutus</i>
-	<i>Scoloplos robustus</i>
Phylum Annelida – Class Polychaeta – Family Nereidae	
Common Clam Worm	<i>Nereis succinea</i>
-	<i>Nereis arenaceodonta</i>
Sandworm	<i>Nereis virens</i>
Phylum Annelida – Class Polychaeta – Family Chaetopteridae	
-	<i>Spiochaetopterus oculatus</i>
Phylum Annelida – Class Polychaeta – Family Maldanidae	
Bamboo Worm	<i>Clymenella torquata</i>
Phylum Annelida – Class Polychaeta – Family Glyceridae	
Common Blood Worm	<i>Glycera dibranchiata</i>
Phylum Annelida – Class Polychaeta – Family Pectinariidae	
Trumpet Worm	<i>Pectinaria gouldii</i>
Phylum Annelida – Class Polychaeta – Family Arenicolidae	
Lugworm	<i>Arenicola marina</i>

Common Name	Scientific Name
Phylum Annelida – Class Polychaeta – Family Lumbrineridae	
Thread Worms	<i>Lumbrineris tenuis</i>
Phylum Annelida – Class Polychaeta – Family Nephtyidae	
Red-Lined Worms	<i>Nephtys picta</i>
Red-Lined Worms	<i>Nephtys caeca</i>
Red-Lined Worms	<i>Nephtys bucera</i>
Phylum Annelida – Class Polychaeta – Family Phyllodoceidae	
Paddle Worms	<i>Eteone heteropoda</i>
Paddle Worms	<i>Phyllodoce mucosa</i>
Phylum Annelida – Class Polychaeta – Family Spionidae	
-	<i>Spio setosa</i>
Bee Spionid	<i>Spiophanes bombyx</i>
	<i>Strebelospio benedictii</i>
Mud Worm	<i>Polydora comuta</i>
-	<i>Scoleipsis squamata</i>
-	<i>Pygospio elegans</i>
-	<i>Prionospio heterobranchia</i>
Phylum Annelida – Class Polychaeta – Family Oligochaeta	
-	<i>Phyllodrilus monospermathecus</i>
-	<i>Monophylephorus irroratus</i>
Phylum Annelida – Class Polychaeta – Family Echinodermata	
-	<i>Leptosynapta inhaerens</i>
Phylum Annelida – Class Polychaeta – Family Hemichordata	
Acorn Worm	<i>Saccoglossus kowaleskii</i>
Phylum Annelida – Class Polychaeta – Family Syllidae	
-	<i>Syllides verilli</i>
-	<i>Brania wellfleetensis</i>
Phylum Annelida – Class Polychaeta – Family Cirratulidae	
Fringed Worms	<i>Tharyx</i> spp.
Phylum Annelida – Class Polychaeta – Family Paraonidae	
Paraonid Worms	<i>Paranois fulgens</i>
Source: Weiss 1995; and Leavitt and Peters 2005	

¹ Federal and State Legal Status Codes (under Federal and Massachusetts Endangered Species Lists): E=Endangered; T=Threatened; SC=State Species of Special Concern; C=Candidate Species.

² Natureserve Global Conservation Status Ranks: G1=Critically Imperiled; G2=Imperiled; G3=Vulnerable; G4=Apparently Secure; G5=Secure; T#=Infraspecific Taxon (MA DFG 2006).

- ³ Massachusetts Rarity Rank: S = Critically Imperiled; S2=Imperiled; S3=Either very rare or uncommon, vulnerable; S4=Widespread, abundant, apparently secure; S5=Secure; SNR=Unranked; N=Non-Breeding; SNA=Not Applicable; SU=Unrankable (MA DFG 2006).
- ⁴ NOAA Fisheries Office of Protected Resources: E=Endangered; T=Threatened; P=Proposed; C=Candidate; S=Species of Concern; F=Foreign; D=Depleted; DL=Delisted.
- ⁵ American Fisheries Society's Marine, Estuarine, and Diadromous Fish stocks at Risk of Extinction: E=Endangered; T=Threatened; V=Vulnerable; CD=Conservation Dependent (Musick et al. 2000).
- ⁶ NA: indicates that there is no available data on this species included in trawl report and species was identified as one that should be included anyway.
- *: indicates that summary data may be incomplete (per this DMF and observations for all years and/or recorded under additional species codes in 1 or more years).
- ⁷ U.S. Fish and Wildlife Service Division of Migratory Birds, Birds of Conservation Concern for Region 5 (Northeast) (USFWS 2008). R5=Species identified as a species of conservation concern in Region 5; N=Species identified as a species of conservation concern nationally.
- ⁸ Bird Conservation Region 30: New England/Mid-Atlantic Coast Conservation Priority Category (ACJV 2007). HH=Highest Priority; H=High Priority; M=Moderate Priority.
- ⁹ Partners in Flight (PIF) Bird Conservation Plan for Southern New England: Physiographic Area 09 (Dettmers and Rosenberg 2000). IA=High continental priority and high regional responsibility; IB=High continental priority and low regional responsibility; IIA=High regional concern; IIC=High regional threats; III=Additional Watch List
- ¹⁰ Waterbird Conservation Plan for the Mid-Atlantic/New England/Maritimes Region: 2006-2010, MANEM Waterbird Working Group. HH=Highest conservation concern; H=High conservation concern; M=Moderate conservation concern; L=Low conservation concern.
- ¹¹ North American Waterfowl Management Plan (NAWMP), Atlantic Coast Joint Venture, Waterfowl Implementation Plan, Revision June 2005 (Draft). H=High; MH=Moderate High; M=Moderate; ML=Moderate Low; AO=Above Objective.
- ¹² North American Waterbird Conservation Plan (NAWCP), Categories of Conservation Concern (Kushlan et al. 2002). HI=Highly Imperiled; HC=High Concern; MC=Moderate Concern; LC=Low Concern; NR=Not Currently At Risk; IL=Information Lacking.
- ¹³ U.S. Shorebird Conservation Plan, Conservation Category Codes (Brown et al. 2001, Clark and Niles 2000). 5=Highly imperiled; 4=Species of high concern; 3=Species of moderate concern; 2=Species of low concern; 1=Species not at risk.
- ¹⁴ Spring, Summer, Fall, Winter Relative Abundance: a=abundant; c=common; u=uncommon; o=occasional; r=rare; and x=accidental.
- ¹⁵ North Atlantic Landscape Conservation Cooperative Representative Species (NALCC): N=Northern; NALCC Representative; M=Mid NALCC Representative; S=Southern NALCC Representative.

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