

Construction and Operations Plan

Lease Area OCS-A 0534

Volume III Appendices

February 2024

Submitted by Park City Wind LLC Submitted to
Bureau of Ocean Energy
Management
45600 Woodland Rd
Sterling, VA 20166

Prepared by Epsilon Associates, Inc. **Epsilon**



New England Wind Construction and Operations Plan for Lease Area OCS-A 0534

Volume III Appendices

Submitted to:
BUREAU OF OCEAN ENERGY MANAGEMENT
45600 Woodland Rd
Sterling, VA 20166

Submitted by: Park City Wind LLC



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New England Wind Representative Terrestrial Wildlife Species List

Prepared for:

Park City Wind LLC

Prepared by:

Epsilon Associates, Inc.

December 2021

APPENDIX III-D REPRESENTATIVE TERRESTRIAL WILDLIFE SPECIES LIST

Representative wildlife species lists developed by the United States Fish and Wildlife Service for a pine-oak forest at the Massasoit National Wildlife Refuge in nearby Plymouth, Massachusetts are provided in Tables 1 through 4. Tables 5 and 6 provide information on potential avian species that may be present within the Phase 1 and Phase 2 Onshore Development Areas.

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Table 1 Amphibians and Reptiles Confirmed at Massasoit Wildlife Refuge¹

Common Name	Scientific Name	Federal Legal Status²	MA Legal Status ³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶
Plethodontidae Family	•	'		•		
Red-backed Salamander	Plethodon cinereus cinereus	-	-	G5	-	-
Salamandridae Family						
Red-spotted Newt	Notophthalmus viridescens	-	-	G5	-	-
Ranidae Family						
American Bullfrog	Lithobates catesbeianus	-	-	G5	-	-
Green Frog	Lithobates clamitans	-	-	G5	-	-
Northern Leopard Frog	Lithobates pipiens	-	-	G5	54	-
Wood Frog	Lithobates sylvaticus	-	-	G5	-	NNE, SNE, MAt
Bufonidae Family						
American Toad	Anaxyrus americanus	-	-	G5	-	-
Fowler's Toad	Anaxyrus fowleri	-	-	G5	-	-
Hylidae Family						
Northern Spring Peeper	Pseudacris crucifer	-	-	G5	-	-
Hylidae Family						
Gray Treefrog	Hyla versicolor	-	-	G5	-	-
Colubridae Family						
Eastern Hognose Snake	Heterodon platirhinos	-	-	G5	S4	SNE, MAt
Eastern Ribbon Snake	Thamnophis sauritus	-	-	G5	S5	-
Milk Snake	Lampropeltis triangulum	-	-	G5	-	-
Emydidae_Family						
Painted Turtle	Chrysemys picta	-	-	G5	-	MAt
Northern Red-Bellied Cooter	Pseudemys rubriventris	E	E	G5T2Q	S1	-

Table 1 Amphibians and Reptiles Confirmed at Massasoit Wildlife Refuge¹ (Continued)

Common Name Chelydridae Family	Scientific Name	Federal Legal Status ²	MA Legal Status ³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶
Snapping Turtle	Chelydra serpentina	-	-	G5	-	-
Kinosternidae Family						
Common Musk Turtle	Sternotherus odoratus	-	-	G5	-	-

- US Fish and Wildlife Service. Massasoit National Wildlife Refuge-Draft Comprehensive Conservation Plan and Environmental Assessment. March 2017.
- 2. Federal Legal Status Codes (under Federal Endangered Species List): E=endangered; T=threatened; C=candidate; "-"=no status.
- State Legal Status Codes (under Massachusetts Endangered Species Lists): E=endangered; T=threatened; SC= special
 concern; WL=watch list; "-"=no status.
- 4. Global Rarity Rank: NatureServe Global Conservation Status Ranks from http://explorer.natureserve.org/ where the conservation status of a species is designated by a number from 1 to 5 (1=critically imperiled, 2=imperiled, 3=vulnerable, 4=apparently secure, 5=secure), preceded by a letter reflecting the appropriate geographic scale of the assessment (G = Global, N = National, and S = Subnational). Additionally, GNR=unranked (global rank not yet assessed) and "?"=inexact numeric rank.
- 5. Massachusetts Rarity Rank from 2005 Massachusetts Comprehensive Wildlife Conservation Strategy, Revised 2006: S1 =critically imperiled; S2=imperiled; S3=either very rare or uncommon, vulnerable; S4=widespread, abundant, apparently secure; S5=secure; SNA=not applicable; "-"=no rank given. State rarity ranks were only provided for "species in greatest need of conservation", therefore although some species were assigned a rank of S5, they are still of conservation concern in Massachusetts.
- 6. North Atlantic Landscape Conservation Cooperative Representative Species: NNE=northern New England; SNE = southern New England; MAt=mid; "-"=not listed.

Table 2 Birds Confirmed at Massasoit Wildlife Refuge¹

Common Name	Scientific Name	Federal Legal Status ²	MA Legal Status³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶	BCC Region 57	BCR 308	PIF Area 9 ⁹
Gaviidae Family (Loons)									
Common Loon	Gavia immer	-	SC	G5	S1	NNE, SNE	-	1	-
Ardeidae Family (Wadin	g Birds)								
Great Blue Heron	Ardea herodias	-	-	G5	-	ı	-	-	V
Black-crowned Night Heron	Nycticorax nycticorax	-	-	G5	S2	-	-	Μ	V
Anatidae Family (Swans,	Geese, Ducks)								
Mute Swan	Cygnus olor	-	-	G5	-	ı	-	-	-
Canada Goose	Branta canadensis	-	-	G5	-	ı	-	НН	-
Wood Duck	Aix sponsa	-	-	G5	-	MAt	-	-	-
Mallard	Anas platyrhynchos	-	-	G5	-	-	-	Н	-
Anatidae Family (Swans,	Geese, Ducks)								
American Black Duck	Anas rubripes	-	-	G5	S4	NNE, SNE, MAt	-	НН	IIC
Blue-winged Teal	Anas discors	-	-	G5	-	-	-	-	-
Anatidae Family (Swans,	Geese, Ducks)								
Green-winged Teal	Anas crecca	-	-	G5	-	-	-	М	-
Cathartidae, Accipitridae	, and Pandionidae Famil	ies (Di	urnal R	aptors	and O	sprey)			
Turkey Vulture	Cathartes aura	-	-	G5	-	-	-	-	-
Red-shouldered Hawk	Buteo lineatus	-	-	G5	-	MAt	-	-	V
Red-tailed Hawk	Buteo jamaicensis	-	-	G5	-	-	-	-	-
Bald Eagle	Haliaeetus leucocephalus	-	Т	G5	S1	-	Υ	М	-
Osprey	Pandion haliaetus	-	-	G5	-	-	-	-	V
	phoridae Families (Uplai	nd Gan	ne Bird	s)					
Northern Bobwhite	Colinus virginianus	-	-	G5	S5	-	-	Н	-
Ruffed Grouse	Bonasa umbellus	-	-	G5	S5	NNE	-	-	-
Wild Turkey	Meleagris gallopavo	-	-	G5	-	-	-	-	-
Columbidae Family (Pige			1		ı				
Mourning Dove	Zenaida macroura	-	-	G5	-	-	-	-	-

Table 2 Birds Confirmed at Massasoit Wildlife Refuge¹ (Continued)

Common Name	Scientific Name	Federal Legal Status ²	MA Legal Status ³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶	BCC Region 57	BCR 30 ⁸	PIF Area 9 ⁹
Cuculidae Family (Cuckoo	s and Allies)						'		
Yellow-billed Cuckoo	Coccyzus americanus	-	-	G5	-	-	-	-	-
Black-billed Cuckoo	Coccyzus erythropthalmus	-	-	G5	-	-	_	-	IA
Caprimulgidae Family (Go	oatsuckers)								
Whip-poor-will	Caprimulgus vociferous	-	SC	G5	S4	MAt	Υ	Н	-
Alcedinidae Family (Kingf	ishers)								
Belted Kingfisher	Megaceryle alcyon	-	-	G5	-	-	-	-	-
Picidae Family (Woodpec	kers)-								
Red-bellied Woodpecker	Melanerpes carolinus	-	-	G5	-	-	-	-	-
Yellow-bellied Sapsucker	Sphyrapicus varius	-	-	G5	-	-	-	-	-
Picidae Family (Woodpec	kers)-	l			<u> </u>				
Downy Woodpecker	Picoides pubescens	-	-	G5	-	-	-	-	-
Hairy Woodpecker	Picoides villosus	-	-	G5	-	-	-	-	IIA
Northern Flicker	Colaptes auratus	-	-	G5	-	-	-	Н	-
Tyrannidae Family (Tyran	t Flycatchers)								
Eastern Wood-Pewee	Contopus virens	-	-	G5	-	MAt	-	-	IIA
Eastern Phoebe	Sayornis phoebe	-	-	G5	-	-	-	-	-
Great Crested Flycatcher	Myiarchus crinitus	-	-	G5	-	-	-	Н	-
Tyrannidae Family (Tyran	t Flycatchers)								
Eastern Kingbird	Tyrannus tyrannus	-	-	G5	-	-	-	Н	-
Vireonidae Family (Vireos	5)								
Red-eyed Vireo	Vireo olivaceus	-	-	G5	-	-	-	-	-
Corvidae Family (Crows a	nd Jays)								
Blue Jay	Cyanocitta cristata	-	-	G5	-	-	-	-	-
American Crow	Corvus brachyrhynchos	-	ı	G5	ı	1	-	1	-
Fish Crow	Corvus ossifragus	-	-	G5	-	-	-	-	-

Table 2 Birds Confirmed at Massasoit Wildlife Refuge¹ (Continued)

Common Name	Scientific Name	Federal Legal Status ²	MA Legal Status ³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶	BCC Region 57	BCR 30 ⁸	PIF Area 9 ⁹
Hirundinidae Family (Swa	llows)		ı	ı					
Barn Swallow	Hirundo rustica	_	-	G5	-	-	-	-	-
Tree Swallow	Tachycineta bicolor	-	-	G5	-	-	-	-	-
Paridae Family (Chickadee	es and Titmice)								
Tufted Titmouse	Baeolophus bicolor	-	-	G5	-	-	-	-	-
Paridae Family (Chickadee	es and Titmice)								
Black-capped Chickadee	Poecile atricapillus	-	-	G5	-	-	-	-	-
Sittidae Family (Nuthatch	es)		I.	ı					
Red-breasted Nuthatch	Sitta canadensis	-	-	G5	-	-	-	-	-
White-breasted Nuthtch	Sitta carolinensis	-	-	G5	-	-	-	-	-
Troglodytidae Family (Wr	ens)	<u> </u>	l.						
Carolina Wren	Thryothorus Iudovicianus	-	-	G5	-	-	-	-	-
Sylviidae Family (Gnatcate	chers)								
Blue-gray Gnatcatcher	Polioptila caerulea	-	-	G5	-	-	-	-	-
Turdidae Family (Thrushe	s)								
Eastern Bluebird	Sialia sialis	-	-	-	-	-	-	-	-
American Robin	Turdus migratorius	-	-	G5	-	-	-	1	-
Turdidae Family (Thrushe	s)								
Wood Thrush	Hylocichla mustelina	-	-	G5	S5	NNE, SNE, MAt	Υ	НН	IA
Hermit Thrush	Catharus guttatus	-	-	G5	-	-	-	-	-
Mimidae Family (Mimids)									
Gray Catbird	Dumetella carolinensis	-	-	G5	-	-	-	М	-
Northern Mockingbird	Mimus polyglottos	-	-	G5	1	-	-	1	-
Mimidae Family (Mimids)									
Brown Thrasher	Toxostoma rufum	-	-	G5	S5	MAt	-	Н	-
Bombycillidae Family (Wa	xwings)								
Cedar Waxwing	Bombycilla cedrorum	-	-	G5	-	-	-	-	-

Table 2 Birds Confirmed at Massasoit Wildlife Refuge¹ (Continued)

Common Name	Scientific Name	Federal Legal Status ²	MA Legal Status ³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶	BCC Region 57	BCR 30 ⁸	PIF Area 9 ⁹
Parulidae Family (Wood	Warblers)		ı		ı			<u> </u>	
Yellow Warbler	Dendroica petechia	-	-	G5	-	-	-	-	-
Prairie Warbler	Dendroica discolor	-	-	G5	S5	SNE, MAt	Υ	НН	IA
Parulidae Family (Wood	Warblers)			l			l		
Palm Warbler	Dendroica palmarum	-	-	G5	-	NNE	-	-	-
Pine Warbler	Dendroica pinus	-	-	G5	-	-	-	-	-
Blackpoll Warbler	Dendroica striata	-	SC	G5	S1	NNE	-	-	-
Black-and-white Warbler	Mniotilta varia	-	-	G5	-	MAt	-	Н	IIA
Ovenbird	Seiurus aurocapilla	-	-	G5	-	NNE, SNE, MAt	-	-	-
Parulidae Family (Wood	Warblers)								
Common Yellowthroat	Geothlypis trichas	-	-	G5	-	-	-	-	-
Thraupidae Family (Tan	agers)								
Scarlet Tanager	Piranga olivacea	-	-	G5	-	-	-	Н	IA
Cardinalidae Family (Car	rdinals and Grosbeaks)								
Northern Cardinal	Cardinalis cardinalis	-	-	G5	-	-	-	-	-
Cardinalidae Family (Car	rdinals and Grosbeaks)								
Rose-breasted	Pheucticus	-	-			-	-	-	IIA
Grosbeak	ludovicianus								
Emberizidae Family (Em	berizine Sparrows and A	Allies)							
Eastern Towhee	Pipilo erythrophthalmus	-	-	G5	S5	NNE, MAt	-	Н	IIA
Field Sparrow	Spizella pusilla	-	-	G5	S5	-	-	Н	1
Chipping Sparrow	Spizella passerina	-	-	G5	-	-	-	-	-
Song Sparrow	Melospiza melodia	-	-	G5	-	-	-	-	-
Icteridae Family (Icterid	s)								
Brown-headed Cowbird	Molothrus ater	-	-	G5	-	-	-	-	-
Red-winged Blackbird	Agelaius phoeniceus	-	-	G5	-	-	-	-	-
Common Grackle	Quiscalus quiscula	-	-	G5	-	-	-	-	-
Baltimore Oriole	Icterus galbula	-	-	G5	-	-	-	Н	IA

Table 2 Birds Confirmed at Massasoit Wildlife Refuge¹ (Continued)

Common Name Fringillidae Family (Finche	Scientific Name	Federal Legal Status²	MA Legal Status³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶	BCC Region 57	BCR 30 ⁸	PIF Area 9 ⁹
	1	1	I	65			I	I	
Purple Finch	Carpodacus purpureus	-	-	G5	-	-	-	-	IIA
House Finch	Carpodacus mexicanus	-	-	G5	-	-	-	-	-
American Goldfinch	Carduelis tristis	-	-	G5	-	-	-	-	-

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- 6. North Atlantic Landscape Conservation Cooperative (LCC) Representative Species: NNE=northern New England; SNE = southern New England; MAt=mid; "-"=not listed.
- 7. US Fish and Wildlife Service Division of Migratory Birds, Birds of Conservation Concern (BCC) for Region 5 (Northeast) (USFWS 2008). Y=species identified as a species of conservation concern in Region 5; "-"=species not identified.
- 8. Bird Conservation Region (BCR) 30: New England/Mid-Atlantic Coast Conservation Priority Category: HH=highest priority; H=high priority; M=moderate priority (http://www.acjv.org/BCR_30/BCR30_June_23_2008_final.pdf).
- 9. Partners in Flight 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; V=additional state listed.

Table 3 Mammals Confirmed at Massasoit Wildlife Refuge¹

Common Name	Scientific Name	Federal Legal Status²	MA Legal Status ³	Global Rarity Rank ⁴	MA Rarity Rank ⁵	North Atlantic LCC Representative Species ⁶
Canidae Family						
Coyote	Canis latrans	-	-	G5	-	-
Gray Fox	Urocyon cinereoargenteus	-	-	G5	-	-
Red Fox	Vulpes vulpes	-	1	G5	1	-
Procyonidae Family						
Raccoon	Procyon lotor	-	-	G5	-	-
Mephitidae Family						
Striped Skunk	Mephitis mephitis	-	-	G5	-	-
Mustelidae Family						
Fisher	Martes pennanti	-	-	G5	-	-
Cervidae Family						
White-tailed Deer	Odocoileus virginianus	-	-	G5	-	-
Sciuridae Family						
Red Squirrel	Tamiasciurus hudsonicus	-	-	G5	-	-
Vespertilionidae Family						
Big Brown Bat	Eptesicus fuscus	-	-	G5	-	-
Silver-haired Bat	Lasionycteris noctivagans	-	-	G5	SU	-
Eastern Red Bat	Lasiurus borealis	-	-	G5	S4	NNE, SNE, MAt
Eastern Pipistrelle	Pipistrellus subflavus	-	-	G3	-	MAt
Eastern Small-footed Myotis	Myotis leibii	-	SC	G1G3	S1	-

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- 5. Massachusetts Rarity Rank from 2005 Massachusetts Comprehensive Wildlife Conservation Strategy, Revised 2006: S1 =critically imperiled; S2=imperiled; S3=either very rare or uncommon, vulnerable; S4=widespread, abundant, apparently secure; S5=secure; SNA=not applicable; "-"=no rank given. State rarity ranks were only provided for "species in greatest need of conservation", therefore although some species were assigned a rank of S5, they are still of conservation concern in Massachusetts.
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Table 4 Invertebrates Confirmed at Massasoit Wildlife Refuge¹

Common Name	Scientific Name	Federal Legal Status ²	MA Legal Status³	Global Rarity Rank ⁴	MA Rarity Rank ⁵
Libellulidae Family	·	·		•	
Blue Dasher	Pachydiplax longipennis	-	-	G5	-
Calico Pennant	Celithemis elisa	-	-	G5	-
Common Whitetail	Libellula lydia	-	-	G5	-
Eastern Pondhawk	Erythemis simplicicollis	-	-	G5	-
Golden-Winged Skimmer	Libella auripennis	-	-	G5	-
Slaty Skimmer	Libellula incesta	-	-	G5	-
White Corporal	Libellula exusta	-	-	G4	-
Nymphalidae Family					
Eastern Comma	Polygonia comma	-	-	G5	-
Great Spangled Fritillary	Speyeria cybele	-	-	G5	-
Mourning Cloak	Nymphalis antiopa	-	-	G5	-
Red Admiral	Vanessa atalanta	-	-	G5	-
Red-spotted Purple	Limenitis artemis astyanax	-	-	G5T5	-
Lycaenidae Family					
Striped Hairstreak	Satyrium liparops	-	-	G5	-
Hesperiidae Family					
True Skipper sp. (tauny-orange or brown)	Hesperia spp.	-	-	G5	-
Saturniidae Family					
Polyphemus moth	Antheraea polyphemus	-	-	G5	-
Carabidae Family					
Six-spotted Green Tiger Beetle	Cicindela sexguttata	-	-	G5	-

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- 3. State Legal Status Codes (under Massachusetts Endangered Species Lists): E=endangered; T=threatened; SC= special concern; WL=watch list; "-"=no status.
- 4. Global Rarity Rank: NatureServe Global Conservation Status Ranks from http://explorer.natureserve.org/ where the conservation status of a species is designated by a number from 1 to 5 (1=critically imperiled, 2=imperiled, 3=vulnerable, 4=apparently secure, 5=secure), preceded by a letter reflecting the appropriate geographic scale of the assessment (G = Global, N = National, and S = Subnational). Additionally, GNR=unranked (global rank not yet assessed) and "?"=inexact numeric rank.
- 5. Massachusetts Rarity Rank from 2005 Massachusetts Comprehensive Wildlife Conservation Strategy, Revised 2006: S1 =critically imperiled; S2=imperiled; S3=either very rare or uncommon, vulnerable; S4=widespread, abundant, apparently secure; S5=secure; SNA=not applicable; "-"=no rank given. State rarity ranks were only provided for "species in greatest need of conservation", therefore although some species were assigned a rank of S5, they are still of conservation concern in Massachusetts.

Table 5 List of Birds Common in eBird Database (75 quartile) within 15 km of the Phase 1 and Phase 2 Onshore Development Areas

Common Name	Scientific Name	eBird Count	SGCN	MA Status	Fed Status	IPaC
Song Sparrow	Melospiza melodia	3469				
American Crow	Corvus brachyrhynchos	3437				
Mourning Dove	Zenaida macroura	3408				
Black-capped Chickadee	Poecile atricapillus	3379				
Blue Jay	Cyanocitta cristata	3327				
Northern Cardinal	Cardinalis cardinalis	3247				
House Sparrow	Passer domesticus	3219				
American Goldfinch	Spinus tristis	3153				
American Robin	Turdus migratorius	3093				
Downy Woodpecker	Dryobates pubescens	3050				
Tufted Titmouse	Baeolophus bicolor	3023				
Herring Gull	Larus argentatus	2996	Х			
House Finch	Haemorhous mexicanus	2759				
White-breasted Nuthatch	Sitta carolinensis	2731				
Northern Flicker	Colaptes auratus	2708				
Mallard	Anas platyrhynchos	2681				
Carolina Wren	Thryothorus ludovicianus	2569				
Great Black-backed Gull	Larus marinus	2474	Х			
Common Grackle	Quiscalus quiscula	2390				
Ring-billed Gull	Larus delawarensis	2329				
Hairy Woodpecker	Dryobates villosus	2312				
Red-bellied Woodpecker	Melanerpes carolinus	2303				
European Starling	Sturnus vulgaris	2215				
Red-breasted Nuthatch	Sitta canadensis	2202				
Canada Goose	Branta canadensis	2173				
Great Blue Heron	Ardea herodias	2130				
Red-winged Blackbird	Agelaius phoeniceus	2128				
Mute Swan	Cygnus olor	1990				
Red-tailed Hawk	Buteo jamaicensis	1955				
American Black Duck	Anas rubripes	1922	Х			
Double-crested Cormorant	Phalacrocorax auritus	1771	Х			
Gray Catbird	Dumetella carolinensis	1771				
Osprey	Pandion haliaetus	1632				
Belted Kingfisher	Megaceryle alcyon	1603				
Tree Swallow	Tachycineta bicolor	1582				
Eastern Towhee	Pipilo erythrophthalmus	1566	Х			
Bufflehead	Bucephala albeola	1521				
Brown-headed Cowbird	Molothrus ater	1410				
Common Eider	Somateria mollissima	1403	Х			
Dark-eyed Junco	Junco hyemalis	1362				

Table 5 List of Birds Common in eBird Database (75 quartile) within 15 km of the Phase 1 and Phase 2 Onshore Development Areas (Continued)

Common Name	Scientific Name	eBird Count ¹	SGCN ²	MA Status ³	Fed Status	IPaC⁴
Fish Crow	Corvus ossifragus	1351				
Chipping Sparrow	Spizella passerina	1342				
White-throated Sparrow	Zonotrichia albicollis	1307	Х			
Cedar Waxwing	Bombycilla cedrorum	1298				
Wild Turkey	Meleagris gallopavo	1297				
Pine Warbler	Setophaga pinus	1285				
Laughing Gull	Leucophaeus atricilla	1268	Х			
Northern Mockingbird	Mimus polyglottos	1266				
Red-breasted Merganser	Mergus serrator	1251				
Eastern Phoebe	Sayornis phoebe	1251				
Common Loon	Gavia immer	1246	Х	SC		
Greater Yellowlegs	Tringa melanoleuca	1209				
Barn Swallow	Hirundo rustica	1139				
Sanderling	Calidris alba	1137	Х			
Eastern Bluebird	Sialia sialis	1137				
Yellow-rumped Warbler	Setophaga coronata	1126				
Turkey Vulture	Cathartes aura	1061				
Cooper's Hawk	Accipiter cooperii	1056				
Common Yellowthroat	Geothlypis trichas	1035				
Ruby-throated Hummingbird	Archilochus colubris	1004				
Hooded Merganser	Lophodytes cucullatus	986				
Baltimore Oriole	Icterus galbula	955				
Brant	Branta bernicla	894				
Willet	Tringa semipalmata	876	Х			BCC
Common Goldeneye	Bucephala clangula	855				
Gadwall	Mareca strepera	852				
Common Tern	Sterna hirundo	804	Х	SC		
Great Crested Flycatcher	Myiarchus crinitus	800				
American Wigeon	Mareca americana	797				

- 1. Sullivan BL, Wood CL, Iliff MJ, Bonney RE, Fink D, Kelling S. 2009. eBird: a citizen-based bird observation network in the biological sciences. *Biological Conservation* 142: 2282-2292.; MassWildlife. 2015. Massachusetts State Wildlife Action Plan 2015, Westborough, MA.
- 2. SGCN = Species of Greatest Conservation Need. MassWildlife. 2015. Massachusetts State Wildlife Action Plan 2015, Westborough, MA.
- 3. State Legal Status Codes (under Massachusetts Endangered Species Lists): E=endangered; T=threatened; SC= special concern; WL=watch list; "-"=no status.
- 4. BCC= Birds of Conservation Concern. US Fish and Wildlife Service 2020. Information for Planning and Consultation (IPaC). Accessed January 2020.

Table 6 Bird Species of Greatest Conservation Need¹

Common Name	Shrub Swamp	Salt Marsh	Pitch Pine-Oak	Lakes and Ponds	Hardwoods White Pine Upland	Forested Swamp	Coastal Beach/ Dune
American Black Duck	Х	Х		Х		Χ	
American Oystercatcher							Х
American Woodcock	Х						
Arctic Tern		Х					Х
Bald Eagle				Х			
Bank Swallow							Х
Barn Owl		Х					
Black-crowned Night-heron		Х					Х
Blue-winged Teal				Х			
Broad-winged Hawk	Х				Х	Х	
Brown Thrasher			Х				
Canada Warbler						Х	
Chimney Swift					Х		
Common Eider							Х
Common Loon				Х			
Common Nighthawk							Х
Common Tern		Х					Х
Double-crested Cormorant				Х			Х
Eastern Meadowlark		Х					
Eastern Towhee			Х				
Eastern Whip-poor-will			Х		Х		
Eskimo Curlew							Х
Glossy Ibis		Х					Х
Great Black-backed Gull		Х					Х
Great Egret		Х					Х
Herring Gull		Х					Х
Horned Lark							Х
Laughing Gull		Х					Х
Leach's Storm-petrel							Х
Least Tern		Х					Х
Long-eared Owl			Х		Х		
Northern Bobwhite			Х				
Northern Goshawk					Х		
Northern Harrier			Х				
Northern Parula			Х			Χ	
Pied-billed Grebe				Х			

Table 6 Bird Species of Greatest Conservation Need¹ (Continued)

Common Name	Shrub Swamp	Salt Marsh	Pitch Pine-Oak	Lakes and Ponds	Hardwoods White Pine Upland	Forested Swamp	Coastal Beach/ Dune
Piping Plover							Χ
Prairie Warbler			Х				
Purple Finch					Х		
Purple Martin							Х
Red Knot							Х
Roseate Tern		Х					Х
Ruddy Turnstone							Х
Rusty Blackbird						Χ	
Saltmarsh Sparrow		Х					
Sanderling							Х
Scarlet Tanager					Х		
Seaside Sparrow		Х					
Semi-palmated Sandpiper		Х					Х
Short-billed Dowitcher							Х
Short-eared Owl		Х					
Snowy Egret		Х					Х
Vesper Sparrow			Х				
Whimbrel							Х
White-throated Sparrow						Х	
Willet		Х					Х
Wood Thrush					X		

1. MassWildlife. 2015. Massachusetts State Wildlife Action Plan 2015, Westborough, MA.