

5 very good to excellent
4 good to very good
3 fair to good
2 poor to fair
1 very poor to poor

For specific information on Massachusetts birds concerning such factors as seasonal abundance, habitat preference, and early and late seasonal dates, refer to "Birds of Massachusetts" by Richard R. Veit and Wayne R. Petersen, and the "Birds of Essex County Massachusetts - a Field List," published by the Essex County Ornithological Club of Massachusetts in association with Essex County Greenbelt Association and the Peabody Essex Museum.

* represents a species known or suspected to nest on the Refuge
bold indicates a federally listed threatened or endangered species

										Trip total								
LOONS — GREBES										93	30	70	28	39	41	47	0	0
		Sp	Su	F	W					07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	
___ Red-throated Loon				3	-	4	2											
___ Common Loon				4		2	4	4	x		3		2		2			
___ *Pied-billed Grebe				2	2	2	2	1										
___ Horned Grebe				4	-		3	4										
___ Red-necked Grebe				2	-		2	2										
SHEARWATERS — STORM-PETRELS																		
		Sp	Su	F	W													
___ Northern Fulmar				1		1	1	1	x						1			
___ Greater Shearwater				1		1	1	1	x						4			
Corys Shearwater									x						3			
___ Sooty Shearwater				1	1		1	-										
___ Manx Shearwater				1	1		1	-										
___ Wilson's Storm-Petrel				1	1		1	-										
___ Leach's Storm-Petrel				1	1		1	-										
GANNETS — PELICANS — CORMORANTS																		
		Sp	Su	F	W													
___ Northern Gannet				3		1	4	3	x	s	s		m	s	s	s		
___ Great Cormorant				2	-		2	2	x	s	s	s	s	s	s	s		
___ Double-crested Cormorant				5		5	5	2	x	m	m	m	m	m	m	m		
BITTERNS — HERONS — IBISES																		
		Sp	Su	F	W													
___ American Bittern				2	-		2	2										
___ *Least Bittern				2		2	1	-										
___ Great Blue Heron				4	5	5	5	2	x					2				
___ Great Egret				5	5	5	5	-	x	s						m		
___ Snowy Egret				5	5	5	5	-	x	1						s		
___ Little Blue Heron				2	2		2	1										
___ Tricolored Heron				2	2		2	1										
___ Cattle Egret				1	1		1	-										
___ *Green Heron				3	3		2	-										
___ *Black-crowned Night-Heron				2	2		2	1										
___ *Yellow-crowned Night-Heron				1	1		1	-										
___ Glossy Ibis				3	3		2	1										
SWANS — GEESE — DUCKS																		
		Sp	Su	F	W													
___ Tundra Swan				1	-		1	1										
___ *Mute Swan				3	3	3	3	2	x	s	s				s	m		
___ Whopper Swan				3	3	3	3	2										
___ Snow Goose				2	1		3	3										
___ Brant				3	1		3	1	x									
___ *Canada Goose				5	5	5	5	5	x	6								
___ *Wood Duck				2	2		2	-			m		s			m		
___ *Green-winged Teal				5	3	5	5	2	x		s					s		
___ *American Black Duck				5	4	5	5	5	x	4	m			s	s	m		
___ *Mallard				4	4	4	4	4	x	m	m			s	s	m		
___ *Northern Pintail				3	2	4	3	3	x		1					2		
___ *Blue-winged Teal				2	4	3	-											
___ *Northern Shoveler				2	1		2	1										
___ *Gadwall				3	3	3	3	2	x		s					s		
___ Eurasian Wigeon				1	1		1	1										
___ American Wigeon				2	2		3	2	x		s					m		
___ Canvasback				1	-		1	1										
___ Redhead				1	-		1	1										
___ Ring-necked Duck				2	1		2	1	x						9			
___ Greater Scaup				2	-		2	2										
___ Lesser Scaup				1	-		1	1										
___ Common Eider				4	2		4	4	x	s	s		s	s	s	s		
___ King Eider				1	-		1	1										
___ Harlequin Duck				1	-		1	1										
___ Long-tailed Duck				3	1		3	3										
___ Black Scoter				3	2		3	2	x	1	s			s	s			
___ Surf Scoter				3	2		3	2	x				5	s				
___ White-winged Scoter				4	2		4	4	x	6	s		s	3	1			
___ Common Goldeneye				4	-		3	4										
___ Barrow's Goldeneye				1	-		-	1										
___ Bufflehead				4	-		4	4										
___ Hooded Merganser				2	1		2	2	x		2							
___ Common Merganser				2	-		2	2										
___ Red-breasted Merganser				3	2		3	3	x		1			7				
___ *Ruddy Duck				1	1		2	1										

VULTURES — HAWKS — FALCONS

VULTURES — HAWKS — FALCONS		Sp	Su	F	W		
___	Turkey Vulture		2		1	2	1
___	*Osprey		3	3	3		-
___	Bald Eagle	1	1	1	1		
___	Northern Harrier		4	3		4	4
___	Sharp-shinned Hawk		4	-	3	2	2
___	Cooper's Hawk		2	1	2	1	1
___	Northern Goshawk		1	-	1	1	1
___	Red-shouldered Hawk		1	-	1		-
___	Broad-winged Hawk		1	-	1		-
___	Red-tailed Hawk		3	2	2	2	2
___	Rough-legged Hawk		3	-		3	3
___	Golden Eagle		1	1	1	1	1
___	*American Kestrel		4	3	3	3	3
___	Merlin		3	1	3	1	3
___	Peregrine Falcon		3	1	3	1	3
___	Gyrfalcon		1	-	1		

GROUSE — QUAIL — TURKEYS

ROUSE — QAIL — TURKEYS	Sp	Su	F	W	
___ *Ring-necked Pheasant		1	1	1	1
___ *Wild Turkey		1	1	1	1

RAILS — CRANES

RAILS — CRANES	Sp	Su	F	W		
___ *Clapper Rail			2		2	-
___ *King Rail			2	2	2	-
___ *Virginia Rail			2	2	2	-
___ *Sora			2	2	2	-
___ *Common Moorhen			1	1	2	1
___ *American Coot			1	1	2	2

PLOVERS — SANDPIPERS

POVTERS — SANDPIERS	Sp	Su	F	W		
Black-bellied Plover			3	4	4	2
American Golden-Plover			1	2	2	-
Semipalmated Plover			3	5	4	-
*Piping Plover	2	2	1	-		
*Killdeer			4	4	3	1
American Oystercatcher			1	1	-	-
Black-necked Stilt			1	1	-	-
American Avocet			-	1	1	1
Greater Yellowlegs			4	5	5	1
Lesser Yellowlegs			4	5	5	-
Solitary Sandpiper			2	2	2	-
*Willet			4	4	2	-
*Spotted Sandpiper			3	3	3	-
Upland Sandpiper			2	2	2	-
Whimbrel			2	2	2	-
Hudsonian Godwit			-	2	2	-
Marbled Godwit			-	1	1	-
Ruddy Turnstone			2	3	2	
Red Knot			2	3	3	1
Sanderling			3	4	4	3
Semipalmated Sandpiper			4	5	5	-
Western Sandpiper			-	2	2	-
Least Sandpiper			4	5	4	-
White-rumped Sandpiper			3	3	3	-
Baird's Sandpiper			-	2	2	-
Pectoral Sandpiper			2	3	3	
Purple Sandpiper			2	-	2	2
Dunlin			2	1	4	3
Stilt Sandpiper			1	3	3	-
Buff-breasted Sandpiper			-	2	2	-
Ruff			1	1	1	-
Short-billed Dowitcher			3	4	3	-
Long-billed Dowitcher			-	3	3	1
Common Snipe			2	1	2	1
*American Woodcock			2	2	2	1
*Wilson's Phalarope			2	3	3	-
Red-necked Phalarope			1	2	2	-
Red Phalarope			1	1	1	-

JAEGERs — GULLS — TERNS — AUKS

JAEGERS — GULLS — TERNS — AUKS		Sp	Su	F	W	
___	Pomarine Jaeger		-	1	1	-
___	Parasitic Jaeger		-	1	1	
___	Laughing Gull	2	2	2	2	-
___	Little Gull	2	1	1	2	1
___	Black-headed Gull	1	1	1	1	2
___	Bonaparte's Gull	2		3	2	2
___	Ring-billed Gull	3	4	4	4	2
___	*Herring Gull	5	5	5	5	5
___	Iceland Gull	2	-	-	2	2
___	Glaucous Gull	2	-	-	2	2
___	Great Black-backed Gull	5	5	5	5	5
___	Black-legged Kittiwake	1	-	-	1	1
___	Gull-billed Tern	1	1	1	1	-
___	Caspian Tern	2	1	1	2	-
___	Royal Tern		-	2	1	-
___	Roseate Tern	2	2	2	-	
___	*Common Tern		4	4	2	-
___	Arctic Tern		-	1	-	-
___	*Forster's Tern		-	2	2	

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[illegible]

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	1	4		1				

x

Sp Su F W

x

Sp Su F W

x

BLACKBIRDS — FINCHES

x

*American Goldfinch	5	5	2	2
Evening Grosbeak	1	-	1	1
*House Sparrow	5	5	2	2

x

	s	m	s	s	s		

7th Cape Anne then Whalewatch from Gloucester (2 Fin and 4 Humpback)

8th Halibut point national state park, Plumb Island (Chipmonk, white tailed deer, red squirrel, grey squirrel, harbour seals)
9th Eastern Point and Surrounding trails on Cape Ann, PM Whale watch out of Gloucester (Humpbacks)
10th Halibut Point national state park, Ravenswood natonal state park.

11th Eastern Point area and Whalewatch chipmunk, grey squirrel and 5 humpbacks tuna and harbour porpoise
12th Plumb Island