



# Map 9A Long Island Sound

## BIOLOGICAL RESOURCES

Note: An asterisk (\*) indicates that life stage occurs in this range but not in all months included

### DISPLAYED ON MAP

#### BIRDS

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
6	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-	-
13	Shorebird	American oystercatcher	General Distribution	T/-		Present													Mar-Aug	-	-	-	-
29	Raptor	Short-eared owl	General Distribution	T/E		Present													-	Oct-Apr	-	-	-
46	Diving	Diving birds	Concentration Area			Abundant													-	-	-	-	-
	Diving	Grebes	Concentration Area			Present													-	Jan-Dec	-	-	-
	Diving	Loons	Concentration Area			Present													-	Apr-May	Oct-Nov	-	-
	Gull/Tern	Least tern	Nesting	T/T		Abundant													Apr-Aug	-	-	-	-
	Gull/Tern	Roseate tern	Concentration Area	E/E	E	Abundant													May-Aug	-	-	-	-
	Passerine	Saltmarsh sparrow	Concentration Area			Abundant													May-Aug	-	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		3													May-Aug	-	-	-	-
	Passerine	Seaside sparrow	Nesting	T/C		Abundant													May-Aug	-	-	-	-
	Pelagic	Northern gannet	Concentration Area			Low													-	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Abundant													Mar-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Abundant													Mar-Aug	-	-	-	-
	Shorebird	Shorebirds	Migration			Abundant													-	Jan-Dec	-	-	-
	Wading	Clapper rail	Concentration Area			Present													Mar-Aug	-	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		2													Mar-Aug	-	-	-	-
	Wading	Ibises	Nesting			Abundant													May-Jul	Apr-May	Sep-Oct	-	-
	Wading	Snowy egret	General Distribution	T/-		3													Mar-Aug	-	-	-	-
	Wading	Wading birds	Nesting			Abundant													Jan-Dec	-	-	-	-
	Waterfowl	Scoters	Concentration Area			Low													-	Apr-May	Sep-Nov	-	-
50	Shorebird	American oystercatcher	General Distribution	T/-		Present													Mar-Aug	-	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		3													Mar-Aug	-	-	-	-
51	Passerine	Saltmarsh sparrow	Concentration Area			Present													May-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		8													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Wading	Clapper rail	Concentration Area			Present													Mar-Aug	-	-	-	-
	Wading	Egrets	Concentration Area			Present													Jan-Dec	-	-	-	-
	Wading	Glossy ibis	Concentration Area	C/-		Present													Mar-Aug	-	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		10S													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		4													Mar-Aug	-	-	-	-
	Wading	Little blue heron	Concentration Area	C/-		Present													Apr-Aug	-	-	-	-
	Wading	Snowy egret	General Distribution	T/-		4													Mar-Aug	-	-	-	-
	Wading	YC night-heron	General Distribution	C/-		Present													Mar-Aug	-	-	-	-
	Waterfowl	Dabbling ducks	Wintering			Present													-	Jan-Dec	-	-	-
	Waterfowl	Diving ducks	Concentration Area			Present													-	-	-	-	-

**BIRDS (continued)**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
				S	F		J	F	M	A	M	J	J	A	S	O	N	D				
52	Diving	Diving birds	Concentration Area			Abundant													-	-	-	-
	Diving	Grebes	Concentration Area			Present													-	Jan-Dec	-	-
	Diving	Loons	Concentration Area			Present													-	Apr-May	Oct-Nov	-
	Gull/Tern	Least tern	Nesting	T/T		Abundant													Apr-Aug	-	-	-
	Gull/Tern	Roseate tern	Concentration Area	E/E	E	Abundant													May-Aug	-	-	-
	Passerine	Saltmarsh sparrow	Concentration Area			Abundant													May-Aug	-	-	-
	Passerine	Seaside sparrow	Nesting	T/C		Abundant													May-Aug	-	-	-
	Pelagic	Northern gannet	Concentration Area			Low													-	-	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Abundant													Mar-Aug	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Abundant													Mar-Aug	-	-	-
	Shorebird	Shorebirds	Migration			Abundant													-	Jan-Dec	-	-
	Wading	Clapper rail	Concentration Area			Present													Mar-Aug	-	-	-
	Wading	Ibises	Nesting			Abundant													May-Jul	Apr-May	Sep-Oct	-
	Wading	Wading birds	Nesting			Abundant													Jan-Dec	-	-	-
	Waterfowl	Scoters	Concentration Area			Low													-	Apr-May	Sep-Nov	-
53	Diving	Diving birds	Concentration Area			Abundant													-	-	-	-
	Diving	Grebes	Concentration Area			Present													-	Jan-Dec	-	-
	Diving	Loons	Concentration Area			Present													-	Apr-May	Oct-Nov	-
	Gull/Tern	Least tern	Nesting	T/T		Abundant													Apr-Aug	-	-	-
	Gull/Tern	Roseate tern	Concentration Area	E/E	E	Abundant													May-Aug	-	-	-
	Passerine	Purple martin	General Distribution	C/-		Present													Apr-Aug	-	-	-
	Passerine	Saltmarsh sparrow	Concentration Area			Abundant													May-Aug	-	-	-
	Passerine	Seaside sparrow	Nesting	T/C		Abundant													May-Aug	-	-	-
	Pelagic	Northern gannet	Concentration Area			Low													-	-	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Abundant													Mar-Aug	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Abundant													Mar-Aug	-	-	-
	Shorebird	Shorebirds	Migration			Abundant													-	Jan-Dec	-	-
	Wading	Clapper rail	Concentration Area			Present													Mar-Aug	-	-	-
	Wading	Ibises	Nesting			Abundant													May-Jul	Apr-May	Sep-Oct	-
	Wading	Wading birds	Nesting			Abundant													Jan-Dec	-	-	-
54	Waterfowl	Scoters	Concentration Area			Low													-	Apr-May	Sep-Nov	-
	Wading	YC night-heron	General Distribution	C/-		Present													Mar-Aug	-	-	-
55	Passerine	Purple martin	General Distribution	C/-		2													Apr-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		10													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-
56	Wading	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-
	Passerine	Savannah sparrow	General Distribution	C/-		2													Mar-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		10S													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-
57	Wading	Great egret	General Distribution	T/-		6													Mar-Aug	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		7													May-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		10S													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-

**BIRDS (continued)**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
				S	F		J	F	M	A	M	J	J	A	S	O	N	D				
	Wading	Glossy ibis	General Distribution	C/-		2													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		4													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		4													Mar-Aug	-	-	-
58	Passerine	Purple martin	General Distribution	C/-		9													Apr-Aug	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		2													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	-JC		8													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Great egret	General Distribution	T/-		5													Mar-Aug	-	-	-
	Wading	Little blue heron	General Distribution	C/-		5													Apr-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		3													Mar-Aug	-	-	-
59	Wading	Great egret	General Distribution	T/-		2													Mar-Aug	-	-	-
60	Passerine	Purple martin	General Distribution	C/-		Present													Apr-Aug	-	-	-
61	Passerine	Seaside sparrow	General Distribution	T/C		3													May-Aug	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-
62	Wading	Glossy ibis	General Distribution	C/-		8													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		3													Mar-Aug	-	-	-
63	Wading	Snowy egret	General Distribution	T/-		3													Mar-Aug	-	-	-
64	Passerine	Purple martin	General Distribution	C/-		3													Apr-Aug	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		10S													Mar-Aug	-	-	-
65	Raptor	Osprey	General Distribution	-JC		4													Mar-Aug	Mar-Jun	Jul-Nov	-

**FISH**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
429	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
445	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
448	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
453	Diadromous	Alewife	Spawning Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
512	Estuarine Resident	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
541	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Northern puffer	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Grubby	Nursery Area			Common													Dec-Apr	Dec-Apr	Jan-May	Jan-Dec	Jan-Dec
	Estuarine Resident	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
542	Estuarine Nursery	Atlantic herring	Nursery Area			Common													-	-	Mar-May	Jan-Dec	Jan-Dec
	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Marine Benthic	Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Jan-Dec	Jan-Dec
543	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
544	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec

**FISH (continued)**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
545	Diadromous	Blueback herring	Spawning Area	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Brown trout (sea run)	Migration			Uncommon													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Sep-Jan
	Diadromous	Sea lamprey	Spawning Area			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul

**HABITATS & RARE PLANTS**

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
783	Plant	Estuary pipewort	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
801	Plant	Widowsfrill	Vulnerable Occurrence	T/-		Present													-	-	-	-	-
810	Plant	Cosmopolitan bulrush	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
	Plant	Sand dropseed	Vulnerable Occurrence	T/-		Present													-	-	-	-	-

**INVERTEBRATES**






Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
987	Bivalve	Eastern oyster	Concentration Area			Present													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
994	Insect	Rare insect	Vulnerable Occurrence			Present													-	-	-	-	Jan-Dec

**MARINE MAMMALS**







Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Mating	Calving	Pupping	Molt	
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
1033	Pinniped	Harbor seal	Haul Out			Varies (3 - 28)													-	-	-	-	-

WIDESPREAD IN MAPPED AREA ( > 10 SQUARE KILOMETERS )


**BIRDS**

	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
				S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Diving	Common loon	General Distribution	C/C		10S													-	-	-	-	-
		Common loon	General Distribution	C/C		6													-	-	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-	-
		Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-	-
		Roseate tern	General Distribution	E/E	E	Present													May-Aug	-	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	Present													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		Present													Mar-Aug	-	-	-	-
		Little blue heron	General Distribution	C/-		Present													Apr-Aug	-	-	-	-
		Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-	-

## FISH

Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous	Alewife	Nursery Area		Common													Mar-Jun	Mar-Jun	Mar-Jun	Mar-Oct	Mar-Oct
		American eel	Migration		Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American shad	Nursery Area		Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
		Blueback herring	Migration	CI-	Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Estuarine Nursery	Striped bass	Nursery Area		Common													-	-	-	Jan-Dec	Jan-Dec
		Atlantic herring	Nursery Area		Abundant													-	-	Mar-May	Jan-Dec	Jan-Dec
		Atlantic menhaden	Nursery Area		Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
		Bay anchovy	Nursery Area		Common													May-Sep	May-Sep	May-Nov	Jan-Dec	Jan-Dec
		Black sea bass	Nursery Area		Common													-	-	-	Jan-Dec	Jan-Dec
		Bluefish	Nursery Area		Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
		Hogchoker	Nursery Area		Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Scup	Nursery Area		Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
		Summer flounder	Nursery Area		Common													-	-	-	Mar-Nov	Mar-Nov
		Weakfish	Nursery Area		Abundant													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
		Windowpane	Nursery Area		Common													Apr-Oct	Apr-Oct	May-Nov	Jan-Dec	Jan-Dec
		Winter flounder	Nursery Area		Abundant													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
	Estuarine Resident	Atlantic silverside	Nursery Area		Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Fish	Atlantic moonfish	Nursery Area		Common													-	-	-	Jan-Dec	Jan-Dec
	Marine Benthic	Cunner	Nursery Area		Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Little skate	Nursery Area		Abundant													Jan-Dec	Jan-Dec	-	Jan-Dec	Jan-Dec
		Northern searobin	Nursery Area		Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
		Red hake	Nursery Area		Common													-	-	-	Mar-Nov	Mar-Nov
		Silver hake	Nursery Area		Common													-	-	May-Oct	Mar-Nov	Mar-Nov
		Smooth dogfish	Nursery Area		Common													-	-	-	May-Oct	May-Oct
		Spotted hake	Nursery Area		Common													-	-	-	Mar-Nov	Mar-Nov
		Striped searobin	Nursery Area		Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
		Tautog	Nursery Area		Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
		Atlantic mackerel	Nursery Area		Common													Apr-Jun	Apr-Jun	Apr-Jun	Apr-Nov	Apr-Nov
	Marine Pelagic	Butterfish	Nursery Area		Abundant													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec

## REPTILES & AMPHIBIANS







Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Turtle	Green sea turtle	General Distribution	T/T	Present													-	-	-	Jun-Nov	-
		K. ridley sea turtle	General Distribution	E/E	Present													-	-	-	Jun-Nov	-
		Loggerhead sea turtle	General Distribution	T/T	Present													-	-	-	Jun-Nov	-

## INVERTEBRATES

Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Lobster	American lobster	Nursery Area		Common													Jun-Nov	Jan-Dec	May-Aug	Jan-Dec	Jan-Dec







# MARINE MAMMALS






	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence												Mating	Calving	Pupping	Molt
				S	F		J	F	M	A	M	J	J	A	S	O	N	D				
	Dolphin	Harbor porpoise	General Distribution	C/C		Present													-	-	-	-

## ALSO PRESENT IN MAPPED AREA (GENERAL DISTRIBUTION)

# BIRDS





			Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
	Subelement	Species	J	F	M	A	M	J	J	A	S	O	N	D					
	Alcid	Razorbill														-	-	-	-
	Diving	D. crested cormorant														Mar-Aug	-	-	-
		Horned grebe														-	-	-	-
		Red-throated loon														-	-	-	-
	Gull/Tern	Bonaparte's gull														-	-	-	-
		G. black-backed gull														Mar-Aug	-	-	-
		Herring gull														Mar-Aug	-	-	-
		Ring-billed gull														-	-	-	-
	Passerine	Acadian flycatcher														Jun-Jul	May-Jun	Aug-Sep	-
		American crow														Mar-Aug	-	-	-
		American goldfinch														Mar-Aug	-	-	-
		American robin														Mar-Aug	-	-	-
		Baltimore oriole														Apr-Aug	-	-	-
		Barn Swallow														Apr-Aug	-	-	-
		Belted kingfisher														Mar-Aug	-	-	-
		Black-capped chickadee														Mar-Aug	-	-	-
		Blue jay														Apr-Aug	Mar-May	Sep-Oct	-
		Brown-headed cowbird														Mar-Aug	-	-	-
		Cedar waxwing														Mar-Aug	-	-	-
		Chimney swift														Jun-Jul	Apr-May	Aug-Sep	-
		Chipping sparrow														Mar-Aug	-	-	-
		Common grackle														Mar-Aug	-	-	-
		Common yellowthroat														Apr-Aug	-	-	-
		Eastern kingbird														Apr-Aug	-	-	-
		Eastern phoebe														May-Jul	Apr-May	Sep-Nov	-
		European starling														Mar-Aug	-	-	-
		Fish crow														Mar-Aug	-	-	-
		House finch														Mar-Aug	-	-	-
		House sparrow														Mar-Aug	-	-	-
		Marsh wren														Apr-Aug	-	-	-
		Mourning dove														Mar-Aug	-	-	-
		N. r.-winged swallow														Apr-Aug	-	-	-
		Northern cardinal														Mar-Aug	-	-	-
		Northern mockingbird														Mar-Aug	-	-	-
		Red-winged blackbird														Mar-Aug	-	-	-
		Saltmarsh sparrow														May-Aug	-	-	-
		Song sparrow														Mar-Aug	-	-	-

**BIRDS (continued)**



Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Tree swallow													Mar-Aug	-	-	-
	Willow flycatcher													May-Aug	-	-	-
	Yellow warbler													Apr-Aug	-	-	-
 Pelagic	Black-legged kittiwake													-	-	-	-
	Northern gannet													-	-	-	-
 Raptor	Red-tailed hawk													Mar-Aug	-	-	-
 Shorebird	Greater yellowlegs													-	May-Jun	Sep-Oct	-
	Killdeer													Mar-Aug	-	-	-
	Least sandpiper													-	Apr-Jun	Aug-Oct	-
	Lesser yellowlegs													-	Apr-Jun	Aug-Oct	-
	Pectoral sandpiper													-	Apr-May	Sep-Oct	-
	Semipalmated sandpiper													-	-	Jul-Oct	-
	Short-billed dowitcher													-	-	Aug-Oct	-
	Willet													Apr-Aug	-	-	-
 Wading	BC night-heron													Mar-Aug	-	-	-
	Clapper rail													Mar-Aug	-	-	-
	Great blue heron													Mar-Aug	-	-	-
	Tricolored heron													Apr-Aug	-	-	-
	Virginia rail													Mar-Aug	-	-	-
 Waterfowl	American black duck													Apr-May	Mar-Apr	Sep-Nov	-
	Black scoter													-	-	-	-
	Blue-winged teal													-	Mar-May	Sep-Nov	-
	Bufflehead													-	Oct-Jun	-	-
	Canada goose													Mar-Aug	Jan-Dec	-	-
	Common eider													Sep-May	-	-	-
	Common goldeneye													-	Nov-Apr	-	-
	Common merganser													-	-	-	-
	Gadwall													Jan-Dec	-	-	-
	Greater scaup													-	-	-	-
	Green-winged teal													-	Mar-Apr	Sep-Oct	-
	Hooded merganser													-	-	-	-
	Lesser scaup													-	-	-	-
	Long-tailed duck													-	-	-	-
	Mallard													Mar-Aug	-	-	-
	Mute swan													Mar-Sep	-	-	-
	Northern shoveler													-	-	-	-
	Red-breasted merganser													-	-	-	-
	Ring-necked duck													-	-	-	-
	Ruddy duck													-	-	-	-
	Surf scoter													-	-	-	-
	White-winged scoter													-	Sep-May	-	-



## INVERTEBRATES

	<i>Subelement</i>	<i>Species</i>	<i>Monthly Presence</i>												<i>Spawn</i>	<i>Eggs</i>	<i>Larvae</i>	<i>Juveniles</i>	<i>Adults</i>
			<i>J</i>	<i>F</i>	<i>M</i>	<i>A</i>	<i>M</i>	<i>J</i>	<i>J</i>	<i>A</i>	<i>S</i>	<i>O</i>	<i>N</i>	<i>D</i>					
	Bivalve	Eastern oyster													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Northern quahog													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Ribbed mussel													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Cephalopod	Longfin squid													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Crab	Blue crab													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
		Fiddler crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
		Horseshoe crab													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
	Shrimp	Spider crabs													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
		Grass shrimp													May-Oct	May-Oct	May-Oct	May-Oct	Jan-Dec
		Mantis shrimp													Feb-May	Feb-May	Feb-May	Jan-Dec	Jan-Dec






## MARINE MAMMALS

	<i>Subelement</i>	<i>Species</i>	<i>Monthly Presence</i>												<i>Mating</i>	<i>Calving</i>	<i>Pupping</i>	<i>Molt</i>
			<i>J</i>	<i>F</i>	<i>M</i>	<i>A</i>	<i>M</i>	<i>J</i>	<i>J</i>	<i>A</i>	<i>S</i>	<i>O</i>	<i>N</i>	<i>D</i>				
	Dolphin	Bottlenose dolphin													-	-	-	-
	Pinniped	Gray seal													-	-	-	-
		Harbor seal													-	-	-	-



















For additional information about species locations and extent, reference the underlying GIS data available from [response.restoration.noaa.gov](https://response.restoration.noaa.gov)

## SHORELINE RESOURCES

### ESI POLYGON HABITAT TYPES

	<i>ESI Rank</i>	<i>Habitat Classification</i>	<i>Area (Acres)</i>	<i>Area (Sq. Miles)</i>
	10A	Salt and Brackish Water Marshes	1,040.20	1.63
	10B	Freshwater Marshes	71.26	0.11
	10C	Swamps	826.51	1.29
	10D	Scrub and Shrub Wetlands	92.85	0.15
	7	Exposed Tidal Flats	119.55	0.19

### ESI SHORELINE HABITAT TYPES

	<i>ESI Rank</i>	<i>Shoreline Habitat Classification</i>	<i>Length (Meters)</i>	<i>Length (Miles)</i>	<i>% of ESI Shoreline</i>
	10A	Salt and Brackish Water Marshes	70,204.15	43.62	36%
	10B	Freshwater Marshes	914.04	0.57	< 1%
	10C	Swamps	7,059.21	4.39	4%
	10D	Scrub and Shrub Wetlands	1,118.05	0.69	1%
	9A	Sheltered Tidal Flats	4,000.54	2.49	2%
	9B	Vegetated Low Banks	78,951.62	49.06	40%
	8A	Sheltered, Impermeable, Rocky Shores	129.37	0.08	< 1%
	8B	Sheltered, Solid Man-Made Structures	3,915.38	2.43	2%
	8C	Sheltered Riprap	554.04	0.34	< 1%
	7	Exposed Tidal Flats	3,857.74	2.40	2%
	6A	Gravel Beaches	752.85	0.47	< 1%
	6B	Riprap	4,256.69	2.64	2%
	5	Mixed Sand and Gravel Beaches	21.68	0.01	< 1%
	4	Coarse Grained Sand Beaches	5,419.62	3.37	3%
	3A	Fine to Medium Grained Sand Beaches	6,385.64	3.97	3%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	467.21	0.29	< 1%
	1A	Exposed, Rocky Shores	469.91	0.29	< 1%
	1B	Exposed, Solid Man-Made Structures	7,115.99	4.42	4%

Total ESI Shoreline:	195,593.73	Total ESI Shoreline:	121.54
Total Shoreline:	118,323.09	Total Shoreline:	73.52

Note: A shoreline segment may include multiple shoreline habitats. If any segments include multiple habitats, the combined length of all habitats may exceed the length of the mapped shoreline, and the percent of ESI shoreline values will sum to greater than 100%

All underlying GIS data can be obtained from [response.restoration.noaa.gov](https://response.restoration.noaa.gov)

