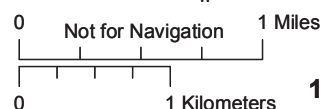


**Map 25B**  
Long Island Sound



**SEE BACK OF MAP**  
for details about mapped species and  
other species that occur in mapped area.  
Data Published: September 2016



**1:50,000**



**Map 25B**  
**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					
173	Raptor	Osprey	General Distribution	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-	-
211	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
220	Gull/Tern	Least tern	General Distribution	T/T		100S													Apr-Aug	-	-	-	-
263	Gull/Tern	Common tern	General Distribution	E/T		8													May-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		100S													Apr-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	6													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		3													Mar-Aug	-	-	-	-
264	Diving	Common loon	Wintering	C/C		Present													-	-	-	-	-
	Gull/Tern	Black skimmer	Nesting	-/C		Present													Mar-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	E/T		Present													May-Aug	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/T		Present													Apr-Aug	-	-	-	-
	Passerine	Passerine birds	Nesting			Present													Jan-Dec	Jan-Dec	-	-	-
	Raptor	Northern harrier	General Distribution	E/T		Present													Mar-Aug	-	-	-	-
	Raptor	Osprey	Nesting	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-	-
	Wading	BC night-heron	Nesting			Present													Mar-Aug	-	-	-	-
	Wading	Green heron	Nesting			Present													Apr-Aug	-	-	-	-
	Wading	Hérons	Nesting			Present													Jan-Dec	Jan-Dec	-	-	-
	Waterfowl	American black duck	Concentration Area			Present													Apr-May	Mar-Apr	Sep-Nov	-	-
	Waterfowl	Bufflehead	Wintering			Present													-	Oct-Jun	-	-	-
	Waterfowl	Canada goose	Wintering			Present													Mar-Aug	Jan-Dec	-	-	-
	Waterfowl	Common goldeneye	Wintering			Present													-	Nov-Apr	-	-	-
	Waterfowl	Long-tailed duck	Wintering			Present													-	-	-	-	-
	Waterfowl	Mallard	Wintering			Present													Mar-Aug	-	-	-	-
	Waterfowl	Mute swan	Concentration Area			Present													Mar-Sep	-	-	-	-
	Waterfowl	Red-breasted merganser	Wintering			Present													-	-	-	-	-
	Waterfowl	Scaup	Wintering			Present													-	Mar-Apr	Oct-Nov	-	-
	Waterfowl	Waterfowl	Concentration Area			Present													-	Jan-Dec	-	-	-
	Waterfowl	Waterfowl	Migration			Present													-	Jan-Dec	-	-	-
	Waterfowl	Waterfowl	Wintering			Present													-	Jan-Dec	-	-	-
265	Gull/Tern	Common tern	General Distribution	E/T		2													May-Aug	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/T		Present													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	4													Mar-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-	-
266	Gull/Tern	Roseate tern	General Distribution	E/E	E	Present													May-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		Present													Mar-Aug	-	-	-	-

**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					
267	Wading	Little blue heron	General Distribution	C/-		Present													Apr-Aug	-	-	-	-
	Wading	Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		2													May-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		2													Mar-Aug	Mar-Jun	Jul-Nov	-	-
268	Wading	Great egret	General Distribution	T/-		Present													Mar-Aug	-	-	-	-
	Gull/Tern	Black skimmer	General Distribution	-/C		2													Mar-Aug	-	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		2													May-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-Aug	-	-	-	-
	Gull/Tern	Roseate tern	General Distribution	E/E	E	4													May-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-	-
269	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		3													Mar-Aug	-	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		2													May-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		100S													Apr-Aug	-	-	-	-
	Shorebird	American oystercatcher	General Distribution	T/-		2													Mar-Aug	-	-	-	-
270	Shorebird	Piping plover	General Distribution	T/E	T	8													Mar-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		8													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-Aug	-	-	-	-
271	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		10													Apr-Aug	-	-	-	-
272	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		2													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		2													Apr-Aug	-	-	-	-
273	Shorebird	Piping plover	General Distribution	T/E	T	2													Mar-Aug	-	-	-	-

**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					
515	Estuarine Nursery	Atlantic menhaden	Nursery Area			Common													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
667	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
697	Diadromous	Striped bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
698	Estuarine Nursery	Summer flounder	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Diadromous	American eel	Migration			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	American shad	Nursery Area			Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
698	Diadromous	Blueback herring	Migration	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Striped bass	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Atlantic herring	Nursery Area			Abundant													-	-	Mar-May	Jan-Dec	Jan-Dec
	Estuarine Nursery	Bay anchovy	Nursery Area			Common													May-Sep	May-Sep	May-Nov	Jan-Dec	Jan-Dec
698	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Summer flounder	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Estuarine Nursery	Winter flounder	Nursery Area			Abundant													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
	Fish	Atlantic moonfish	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
698	Marine Benthic	Little skate	Nursery Area			Abundant													Jan-Dec	Jan-Dec	-	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					
	Marine Benthic	Northern searobin	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
	Marine Benthic	Red hake	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Marine Benthic	Silver hake	Nursery Area			Common													-	-	May-Oct	Mar-Nov	Mar-Nov
	Marine Benthic	Spotted hake	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Marine Benthic	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
	Marine Pelagic	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
699	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
700	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
701	Estuarine Resident	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec

**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					
854	Plant	Atlantic white cedar	Vulnerable Occurrence	-T		10 - 50													-	-	-	-	-
863	Plant	Goose tongue	Vulnerable Occurrence	-T		1000S													-	-	-	-	-
	Plant	Marsh fimbry	Vulnerable Occurrence	-T		1000S													-	-	-	-	-
	Plant	Marsh straw sedge	Vulnerable Occurrence	-T		Present													-	-	-	-	-
864	Plant	Dwarf saltwort	Vulnerable Occurrence	-T		Present													-	-	-	-	-
	Plant	Goose tongue	Vulnerable Occurrence	-T		1000S													-	-	-	-	-
	Plant	Marsh fimbry	Vulnerable Occurrence	-T		1000S													-	-	-	-	-
	Plant	Marsh straw sedge	Vulnerable Occurrence	-T		Present													-	-	-	-	-
	Plant	Saltmarsh loosestrife	Vulnerable Occurrence	-E		Present													-	-	-	-	-
	Plant	Slender blue flag	Vulnerable Occurrence	-T		Present													-	-	-	-	-
	Plant	Sm. false foxglove	Vulnerable Occurrence	-T		1000S													-	-	-	-	-
865	Upland	Seaside knotweed	Vulnerable Occurrence	C/C		Present													-	-	-	-	-
866	Plant	Goose tongue	Vulnerable Occurrence	-T		Present													-	-	-	-	-
867	Plant	Goose tongue	Vulnerable Occurrence	-T		Present													-	-	-	-	-
	Plant	Marsh fimbry	Vulnerable Occurrence	-T		1000S													-	-	-	-	-
	Plant	Peruvian dodder	Vulnerable Occurrence	-E		Present													-	-	-	-	-
	Plant	Saltmarsh loosestrife	Vulnerable Occurrence	-E		Present													-	-	-	-	-
	Plant	Seaside goldenrod	Vulnerable Occurrence	-E		100S													-	-	-	-	-
	Plant	Swamp sunflower	Vulnerable Occurrence	-T		Present													-	-	-	-	-
	Plant	Texan flatsedge	Vulnerable Occurrence	-E		100													-	-	-	-	-
868	Plant	Atlantic white cedar	Vulnerable Occurrence	-T		Present													-	-	-	-	-
	Plant	Longbeak beaksedge	Vulnerable Occurrence	-C		Present													-	-	-	-	-
869	Plant	Marsh fimbry	Vulnerable Occurrence	-T		Present													-	-	-	-	-
870	Plant	Sm. false foxglove	Vulnerable Occurrence	-T		1000S													-	-	-	-	-

# REPTILES & AMPHIBIANS




Map ID	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					
961	Turtle	Rare reptile	Vulnerable Occurrence	-E		Present													Jun	Aug-Sep	-	Jan-Dec	Jan-Dec
963	Turtle	Diamondback terrapin	Vulnerable Occurrence	C/-		Present													Jun-Jul	Aug-Oct	-	Jan-Dec	Jan-Dec
969	Amphibian	Eastern spadefoot	Vulnerable Occurrence	E/C		Present													Apr-Jun	Apr-Jun	-	Jan-Dec	Jan-Dec
973	Turtle	Eastern mud turtle	Vulnerable Occurrence	-E		Present													Jun	Aug-Sep	-	Jan-Dec	Jan-Dec

# 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					
997	Crab	Horseshoe crab	Spawning Area			Present													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
1012	Bivalve	Atlantic surfclam	Harvest Area			Low													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Bivalve	Bay scallop	Harvest Area			Low													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Gastropod	Channeled whelk	Harvest Area			Moderate													Sep-Nov	Sep-Nov	-	Jan-Dec	Jan-Dec

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													-	-	-	-	-
		Pied-billed grebe	General Distribution	E/T		5													-	-	-	-	-
		Pied-billed grebe	General Distribution	E/T		Present													-	-	-	-	-
	Gull/Tern	Black skimmer	General Distribution	-/C		Present													Mar-Aug	-	-	-	-
		Common tern	General Distribution	E/T		Present													May-Aug	-	-	-	-
		Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	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	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
		Bay anchovy	Nursery Area			Abundant													May-Sep	May-Sep	May-Nov	Jan-Dec	Jan-Dec
		Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
		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
		Northern kingfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Apr-Nov	Apr-Nov
		Northern puffer	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
		Scup	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
		Summer flounder	Nursery Area			Abundant													-	-	-	Mar-Nov	Mar-Nov
		Weakfish	Nursery Area			Abundant													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
		White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
		Windowpane	Nursery Area			Common													Apr-Oct	Apr-Oct	May-Nov	Jan-Dec	Jan-Dec



**FISH (continued)**

	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</i>												<i>Spawn</i>	<i>Eggs</i>	<i>Larvae</i>	<i>Juveniles</i>	<i>Adults</i>
				<i>S</i>	<i>F</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>					
	Estuarine Resident	Winter flounder	Nursery Area			Common													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
		Winter flounder	Spawning Area			Abundant													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
		Atlantic silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Fourspine stickleback	Nursery Area			Common													Apr-Jul	Apr-Jul	May-Aug	May-Dec	Jan-Dec
		Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
		Oyster toadfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
		Cunner	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Smooth dogfish	Nursery Area			Common													-	-	-	May-Oct	May-Oct
		Striped searobin	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
	Marine Pelagic	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
		Butterfish	Nursery Area			Common													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec

**REPTILES & AMPHIBIANS**

	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</i>												<i>Nest</i>	<i>Hatch</i>	<i>Internest</i>	<i>Juveniles</i>	<i>Adults</i>
				<i>S</i>	<i>F</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>					
	Turtle	Green sea turtle	General Distribution	T/T	T	Present													-	-	-	Jun-Nov	-
		K. ridley sea turtle	General Distribution	E/E	E	Present													-	-	-	Jun-Nov	-
		Loggerhead sea turtle	General Distribution	T/T	E	Present													-	-	-	Jun-Nov	-

**INVERTEBRATES**








	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</i>												<i>Spawn</i>	<i>Eggs</i>	<i>Larvae</i>	<i>Juveniles</i>	<i>Adults</i>
				<i>S</i>	<i>F</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	Bay scallop	Harvest Area			Moderate													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
		Bay scallop	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
		Eastern oyster	Harvest Area			Low													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Northern quahog	Harvest Area			Moderate													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Northern quahog	Harvest Area			Low													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Softshell clam	Harvest Area			Low													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
	Crab	Horseshoe crab	Nursery Area			Common													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
		Gastropod	Harvest Area			Low													Sep-Nov	Sep-Nov	-	Jan-Dec	Jan-Dec

**MARINE MAMMALS**

	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</i>												<i>Mating</i>	<i>Calving</i>	<i>Pupping</i>	<i>Molt</i>
				<i>S</i>	<i>F</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	Harbor porpoise	General Distribution	C/C		Present													-	-	-	-

ALSO PRESENT IN MAPPED AREA (GENERAL DISTRIBUTION)

BIRDS



	Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
			J	F	M	A	M	J	J	A	S	O	N	D				
	Diving	D. crested cormorant													Mar-Aug	-	-	-
		Horned grebe													-	-	-	-
		Red-throated loon													-	-	-	-
	Gull/Tern	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	-	-	-
		Baltimore oriole													Apr-Aug	-	-	-
		Bank swallow													Apr-Aug	-	-	-
		Barn Swallow													Apr-Aug	-	-	-
		Blue jay													Apr-Aug	Mar-May	Sep-Oct	-
		Boat-tailed grackle													Apr-Jun	-	-	-
		Common grackle													Mar-Aug	-	-	-
		Common yellowthroat													Apr-Aug	-	-	-
		Eastern kingbird													Apr-Aug	-	-	-
		European starling													Mar-Aug	-	-	-
		Fish crow													Mar-Aug	-	-	-
		Gray catbird													Mar-Aug	-	-	-
		House sparrow													Mar-Aug	-	-	-
		House wren													Mar-Aug	-	-	-
		Mourning dove													Mar-Aug	-	-	-
		N. r.-winged swallow													Apr-Aug	-	-	-
		Northern mockingbird													Mar-Aug	-	-	-
		Prairie warbler													Apr-Aug	-	-	-
		Red-winged blackbird													Mar-Aug	-	-	-
		Saltmarsh sparrow													May-Aug	-	-	-
		Song sparrow													Mar-Aug	-	-	-
		Tree swallow													Mar-Aug	-	-	-
		Yellow warbler													Apr-Aug	-	-	-
	Pelagic	Northern gannet													-	-	-	-
	Shorebird	Killdeer													Mar-Aug	-	-	-
		Willet													Apr-Aug	-	-	-
	Wading	Clapper rail													Mar-Aug	-	-	-
		Great blue heron													Mar-Aug	-	-	-
	Waterfowl	American black duck													Apr-May	Mar-Apr	Sep-Nov	-
		American coot													-	-	-	-
		American wigeon													-	-	-	-
		Black scoter													-	-	-	-
		Blue-winged teal													-	Mar-May	Sep-Nov	-
		Bufflehead													-	Oct-Jun	-	-
		Canada goose													Mar-Aug	Jan-Dec	-	-



## BIRDS (continued)





Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Canvasback													-	-	-	-
	Common eider													Sep-May	-	-	-
	Common goldeneye													-	Nov-Apr	-	-
	Eurasian wigeon													-	-	-	-
	Gadwall													Jan-Dec	-	-	-
	Greater scaup													-	-	-	-
	Hooded merganser													-	-	-	-
	Lesser scaup													-	-	-	-
	Long-tailed duck													-	-	-	-
	Mallard													Mar-Aug	-	-	-
	Mute swan													Mar-Sep	-	-	-
	Northern pintail													-	-	-	-
	Northern shoveler													-	-	-	-
	Red-breasted merganser													-	-	-	-
	Ring-necked duck													-	-	-	-
	Ruddy duck													-	-	-	-
	Scoters													-	Apr-May	Sep-Nov	-
	Surf scoter													-	-	-	-
	White-winged scoter													-	Sep-May	-	-
	Wood duck													Mar-Aug	-	-	-

## FISH

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Diadromous	Brown trout													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Jan-Dec
	Rainbow trout													-	-	-	Jan-Dec	Jan-Dec
 Freshwater	Bluegill													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Brown bullhead													May-Jul	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	Chain pickerel													Mar-May	Mar-May	Mar-May	Jan-Dec	Jan-Dec
	Largemouth bass													May-Jul	May-Jul	May-Jul	Jan-Dec	Jan-Dec
	Pumpkinseed													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Smallmouth bass													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Yellow perch													Mar-May	Mar-May	Mar-Aug	Jan-Dec	Jan-Dec



## 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	Blue mussel													Apr-Oct	Apr-Oct	Apr-Oct	Jan-Dec	Jan-Dec
		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	Atlantic rock crab													May-Oct	Jan-Dec	May-Oct	Jan-Dec	Jan-Dec
		Blue crab													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
		Fiddler crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
		Lady crab													Jun-Sep	Jun-Sep	Jun-Sep	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
		Sevenspine bay shrimp													May-Oct	May-Oct	May-Oct	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	512.44	0.80
	10B	Freshwater Marshes	16.97	0.03
	10C	Swamps	74.53	0.12
	10D	Scrub and Shrub Wetlands	77.52	0.12
	9A	Sheltered Tidal Flats	30.98	0.05
	7	Exposed Tidal Flats	49.11	0.08

### 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	43,224.43	26.86	28%
	10D	Scrub and Shrub Wetlands	296.05	0.18	< 1%
	9A	Sheltered Tidal Flats	5,849.75	3.63	4%
	9B	Vegetated Low Banks	57,183.61	35.53	36%
	8B	Sheltered, Solid Man-Made Structures	10,330.78	6.42	7%
	8C	Sheltered Riprap	43.50	0.03	< 1%
	7	Exposed Tidal Flats	4,140.93	2.57	3%
	6A	Gravel Beaches	109.95	0.07	< 1%
	6B	Riprap	1,729.54	1.07	1%
	5	Mixed Sand and Gravel Beaches	9,886.94	6.14	6%
	4	Coarse Grained Sand Beaches	3,036.55	1.89	2%
	3A	Fine to Medium Grained Sand Beaches	10,507.18	6.53	7%
	3B	Scarps and Steep Slopes (Sand)	2,217.07	1.38	1%
	1B	Exposed, Solid Man-Made Structures	8,169.80	5.08	5%

Total ESI Shoreline:	156,726.09	Total ESI Shoreline:	97.39
Total Shoreline:	94,893.04	Total Shoreline:	58.96

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)

