

Map 21B
Long Island Sound



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

0 Not for Navigation 1 Miles
0 1 Kilometers

1:50,000



Map 21B
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	-	-
143	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-	-
156	Diving	Common loon	General Distribution	C/C		2													-	-	-	-	-
163	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-Aug	-	-	-	-
	Raptor	Northern harrier	General Distribution	E/T		Present													Mar-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		2													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Shorebird	American oystercatcher	General Distribution	T/-		2													Mar-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	7													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		5													Mar-Aug	-	-	-	-
166	Raptor	Osprey	General Distribution	-/C		2													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-	-
	Wading	Snowy egret	General Distribution	T/-		10S													Mar-Aug	-	-	-	-
173	Raptor	Osprey	General Distribution	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-	-
199	Gull/Tern	Common tern	Concentration Area	E/T		Present													May-Aug	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/T		Present													Apr-Aug	-	-	-	-
	Passerine	Horned lark	Nesting	E/C		Present													Mar-May	-	-	-	-
	Raptor	Osprey	Wintering	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-	-
200	Diving	Common loon	General Distribution	C/C		2													-	-	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		6													May-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		2													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Wading	Great egret	General Distribution	T/-		5													Mar-Aug	-	-	-	-
	Wading	Snowy egret	General Distribution	T/-		6													Mar-Aug	-	-	-	-
201	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		7													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-	-
	Wading	Snowy egret	General Distribution	T/-		2													Mar-Aug	-	-	-	-
202	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-	-
	Passerine	Horned lark	General Distribution	E/C		Present													Mar-May	-	-	-	-
	Raptor	Osprey	General Distribution	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-	-
203	Gull/Tern	Common tern	General Distribution	E/T		Present													May-Aug	-	-	-	-
	Passerine	Horned lark	General Distribution	E/C		Present													Mar-May	-	-	-	-
204	Gull/Tern	Common tern	General Distribution	E/T		7													May-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		5													Apr-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-	-
	Wading	Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-	-
205	Gull/Tern	Common tern	General Distribution	E/T		10S													May-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				
	Gull/Tern	Least tern	General Distribution	T/T		100S													Apr-Aug	-	-	-
	Passerine	Brown thrasher	General Distribution	C/-		Present													Mar-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-
	Shorebird	American oystercatcher	General Distribution	T/-		2													Mar-Aug	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	10S													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		3													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-
206	Gull/Tern	Black skimmer	General Distribution	-/C		Present													Mar-Aug	-	-	-
	Raptor	Osprey	General Distribution	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-
207	Gull/Tern	Black skimmer	Concentration Area	-/C		Present													Mar-Aug	-	-	-
	Gull/Tern	Common tern	Concentration Area	E/T		Present													May-Aug	-	-	-
	Raptor	Osprey	Concentration Area	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-
	Waterfowl	American wigeon	Wintering			Present													-	-	-	-
	Waterfowl	Bufflehead	Wintering			Present													-	Oct-Jun	-	-
	Waterfowl	Mallard	Wintering			Present													Mar-Aug	-	-	-
	Waterfowl	Scaup	Wintering			Present													-	Mar-Apr	Oct-Nov	-
208	Passerine	Bank swallow	Nesting			Present													Apr-Aug	-	-	-
	Passerine	Passerine birds	Migration			Present													Jan-Dec	Jan-Dec	-	-
	Passerine	Passerine birds	Nesting			Present													Jan-Dec	Jan-Dec	-	-
	Raptor	Osprey	Nesting	-/C		Present													Mar-Aug	Mar-Jun	Jul-Nov	-
209	Wading	Great egret	General Distribution	T/-		4													Mar-Aug	-	-	-
210	Raptor	Osprey	General Distribution	-/C		5													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Great egret	General Distribution	T/-		4													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		3													Mar-Aug	-	-	-
211	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					
430	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
552	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
653	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
669	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Common													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
670	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Common													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov

HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence											
				S	F		J	F	M	A	M	J	J	A	S	O	N	D
851	Plant	Bushy St. Johnswort	Vulnerable Occurrence	-E		Present												-
	Plant	Common persimmon	Vulnerable Occurrence	C/T		Present												-
	Plant	Lesser snakeroot	Vulnerable Occurrence	E/E		Present												-
	Plant	Marsh straw sedge	Vulnerable Occurrence	-T		Present												-
	Plant	Mitchell's sedge	Vulnerable Occurrence	-E		Present												-
	Plant	White edge sedge	Vulnerable Occurrence	-T		Present												-
852	Plant	Marsh straw sedge	Vulnerable Occurrence	-T		Present												-
853	Plant	Annual seepweed	Vulnerable Occurrence	-E		5000												-
	Plant	Clustered bluets	Vulnerable Occurrence	-E		200												-
	Plant	Dune sandspur	Vulnerable Occurrence	-T		Present												-
	Plant	Dwarf saltwort	Vulnerable Occurrence	-T		1250												-
	Plant	Marsh straw sedge	Vulnerable Occurrence	-T		Present												-
	Plant	Thicket sedge	Vulnerable Occurrence	-E		Present												-
854	Plant	Atlantic white cedar	Vulnerable Occurrence	-T		10 - 50												-
855	Plant	Annual seepweed	Vulnerable Occurrence	-E		20												-

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					
963	Turtle	Diamondback terrapin	Vulnerable Occurrence	C/-		Present													Jun-Jul	Aug-Oct	-	Jan-Dec	Jan-Dec
967	Amphibian	Rare amphibian	Vulnerable Occurrence	-E		Present													Mar-Apr	May	-	Jan-Dec	Jan-Dec
970	Turtle	K. ridley sea turtle	Vulnerable Occurrence	E/E	E	Present													-	-	-	Jun-Nov	-
971	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		Present													May-Jun	Jul-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
1003	Crab	Horseshoe crab	Spawning Area			High													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
1004	Bivalve	Eastern oyster	Harvest Area			Moderate													Jun-Oct	Jun-Oct	Jun-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		Present													-	-	-	-
	Gull/Tern	Least tern	Concentration Area	T/T		Present													Apr-Aug	-	-	-
		Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	General Distribution	T/-		Present													Mar-Aug	-	-	-
		Piping plover	General Distribution	T/E	T	Present													Mar-Aug	-	-	-
	Waterfowl	American black duck	Wintering			Present													Apr-May	Mar-Apr	Sep-Nov	-
		Canada goose	Wintering			Present													Mar-Aug	Jan-Dec	-	-


BIRDS (continued)

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				
	Canvasback	Wintering			Present													-	-	-	-
	Common goldeneye	Wintering			Present													-	Nov-Apr	-	-
	Greater scaup	Wintering			Present													-	-	-	-
	Lesser scaup	Wintering			Present													-	-	-	-
	Waterfowl	Wintering			Present													-	Jan-Dec	-	-





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	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Striped bass	Nursery Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Striped bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
 Estuarine Nursery	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
	Bay anchovy	Nursery Area			Abundant													May-Sep	May-Sep	May-Nov	Jan-Dec	Jan-Dec
	Bluefish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Bluefish	Nursery Area			Abundant													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Northern puffer	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
	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Summer flounder	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Weakfish	Nursery Area			Common													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
	Winter flounder	Nursery Area			Common													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
 Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Atlantic silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
	Sheepshead minnow	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Striped killifish	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
 Freshwater	Rainbow smelt	Nursery Area	E/-		Uncommon													Feb-May	Feb-May	Feb-May	Feb-May	Feb-May
 Marine Benthic	Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Jan-Dec	Jan-Dec
	Cunner	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Northern searobin	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
	Pollock	Nursery Area			Common													-	-	Mar-Apr	Jan-Apr	Jan-Apr
	Red hake	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Smooth dogfish	Nursery Area			Common													-	-	-	May-Oct	May-Oct
	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	Apr-Nov	Apr-Nov
	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-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	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

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					
	Bivalve	Eastern oyster	Harvest Area			High												Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Northern quahog	Harvest Area			High												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	Channeled whelk	Harvest Area			Low												Sep-Nov	Sep-Nov	-	Jan-Dec	Jan-Dec
	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												-	-	-	-	-

TERRESTRIAL MAMMALS




Subelement	Species	Mapping Qualifier	CT/NY		Concentration	Monthly Presence																
			S	F		J	F	M	A	M	J	J	A	S	O	N	D					
	Small Mammal	Northern river otter	Vulnerable Occurrence			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	-	-	-	-
		Great cormorant												-	-	-	-	-
		Horned grebe												-	-	-	-	-
		Red-throated loon												-	-	-	-	-
	Gull/Tern	G. black-backed gull												Mar-Aug	-	-	-	-
		Herring gull												Mar-Aug	-	-	-	-
		Laughing gull												Apr-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	-	-	-	-
		Bank swallow												Apr-Aug	-	-	-	-
		Barn Swallow												Apr-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				
	Belted kingfisher													Mar-Aug	-	-	-
	Black-capped chickadee													Mar-Aug	-	-	-
	Blue jay													Apr-Aug	Mar-May	Sep-Oct	-
	Boat-tailed grackle													Apr-Jun	-	-	-
	Carolina wren													Apr-Jul	-	-	-
	Cedar waxwing													Mar-Aug	-	-	-
	Chipping sparrow													Mar-Aug	-	-	-
	Common grackle													Mar-Aug	-	-	-
	Common yellowthroat													Apr-Aug	-	-	-
	Eastern kingbird													Apr-Aug	-	-	-
	Eastern phoebe													May-Jul	Apr-May	Sep-Nov	-
	Eastern towhee													Mar-Aug	-	-	-
	European starling													Mar-Aug	-	-	-
	Fish crow													Mar-Aug	-	-	-
	GC flycatcher													Apr-Aug	-	-	-
	Gray catbird													Mar-Aug	-	-	-
	House sparrow													Mar-Aug	-	-	-
	House wren													Mar-Aug	-	-	-
	Marsh wren													Apr-Aug	-	-	-
	Mourning dove													Mar-Aug	-	-	-
	N. r.-winged swallow													Apr-Aug	-	-	-
	Northern cardinal													Mar-Aug	-	-	-
	Northern flicker													Mar-Aug	-	-	-
	Northern mockingbird													Mar-Aug	-	-	-
	Purple finch													-	-	-	-
	Red-bellied woodpecker													Jun-Jul	Apr-May	Aug-Nov	-
	Red-eyed vireo													May-Aug	-	-	-
	Red-winged blackbird													Mar-Aug	-	-	-
	Song sparrow													Mar-Aug	-	-	-
	Swamp sparrow													Mar-Aug	-	-	-
	Tree swallow													Mar-Aug	-	-	-
	Warbling vireo													Apr-Aug	-	-	-
	Willow flycatcher													May-Aug	-	-	-
	Yellow warbler													Apr-Aug	-	-	-
 Pelagic	Black-legged kittiwake													-	-	-	-
	Northern gannet													-	-	-	-
 Raptor	Red-tailed hawk													Mar-Aug	-	-	-
 Shorebird	Black-bellied plover													-	Aug-May	-	-
	Dunlin													-	Apr-May	Oct-Nov	-
	Greater yellowlegs													-	May-Jun	Sep-Oct	-
	Killdeer													Mar-Aug	-	-	-
	Least sandpiper													-	Apr-Jun	Aug-Oct	-
	Ruddy turnstone													-	Mar-May	Aug-Nov	-
	Sanderling													-	Sep-Jun	-	-





BIRDS (continued)

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
		J	F	M	A	M	J	J	A	S	O	N	D					
	Semipalmated plover													-	Apr-Jun	Sep-Nov	-	-
	Semipalmated sandpiper													-	-	Jul-Oct	-	-
	Spotted sandpiper													-	Apr-Jun	Jul-Oct	-	-
	Willet													Apr-Aug	-	-	-	-
 Wading	BC night-heron													Mar-Aug	-	-	-	-
	Great blue heron													Mar-Aug	-	-	-	-
	Green heron													Apr-Aug	-	-	-	-
 Waterfowl	American black duck													Apr-May	Mar-Apr	Sep-Nov	-	-
	American wigeon													-	-	-	-	-
	Barrow's goldeneye													-	-	-	-	-
	Black brant													-	May	Oct	-	-
	Black scoter													-	-	-	-	-
	Bufflehead													-	Oct-Jun	-	-	-
	Canada goose													Mar-Aug	Jan-Dec	-	-	-
	Canvasback													-	-	-	-	-
	Common eider													Sep-May	-	-	-	-
	Common goldeneye													-	Nov-Apr	-	-	-
	Common merganser													-	-	-	-	-
	Eurasian wigeon													-	-	-	-	-
	Gadwall													Jan-Dec	-	-	-	-
	Greater scaup													-	-	-	-	-
	Green-winged teal													-	Mar-Apr	Sep-Oct	-	-
	Hooded merganser													-	-	-	-	-
	King eider													-	-	-	-	-
	Lesser scaup													-	-	-	-	-
	Long-tailed duck													-	-	-	-	-
	Mallard													Mar-Aug	-	-	-	-
	Mute swan													Mar-Sep	-	-	-	-
	Northern pintail													-	-	-	-	-
	Northern shoveler													-	-	-	-	-
	Red-breasted merganser													-	-	-	-	-
	Redhead													-	Nov-Mar	-	-	-
	Ring-necked duck													-	-	-	-	-
	Ruddy duck													-	-	-	-	-
	Scaup													-	Mar-Apr	Oct-Nov	-	-
	Scoters													-	Apr-May	Sep-Nov	-	-
	Surf scoter													-	-	-	-	-
	White-winged scoter													-	Sep-May	-	-	-

FISH

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Jan-Dec
	Brown trout													-	-	-	Jan-Dec	Jan-Dec
	Freshwater													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Bluegill													May-Jul	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	Brown bullhead													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Common carp													May-Jul	May-Jul	May-Jul	Jan-Dec	Jan-Dec
	Largemouth bass													May-Jun	May-Jun	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

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Bivalve													Apr-Oct	Apr-Oct	Apr-Oct	Jan-Dec	Jan-Dec
	Blue mussel													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Ribbed mussel													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Cephalopod													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
	Crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Blue crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Fiddler crab													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
	Lady crab													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
	Spider crabs													May-Sep	May-Sep	May-Sep	Jan-Dec	Jan-Dec
	Shrimp													May-Oct	May-Oct	May-Oct	May-Oct	Jan-Dec
	Grass shrimp																	







MARINE MAMMALS

Subelement	Species	Monthly Presence												Mating	Calving	Pupping	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	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

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	133.03	0.21
	10B	Freshwater Marshes	4.26	0.01
	10C	Swamps	24.37	0.04
	10D	Scrub and Shrub Wetlands	2.08	0.00
	9A	Sheltered Tidal Flats	221.22	0.35
	7	Exposed Tidal Flats	57.11	0.09

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	23,624.61	14.68	15%
	10C	Swamps	81.29	0.05	< 1%
	10D	Scrub and Shrub Wetlands	99.10	0.06	< 1%
	9A	Sheltered Tidal Flats	24,902.53	15.47	16%
	9B	Vegetated Low Banks	33,246.92	20.66	21%
	8B	Sheltered, Solid Man-Made Structures	4,153.87	2.58	3%
	7	Exposed Tidal Flats	4,667.86	2.90	3%
	6B	Riprap	5,813.71	3.61	4%
	5	Mixed Sand and Gravel Beaches	27,996.48	17.40	18%
	4	Coarse Grained Sand Beaches	17,615.90	10.95	11%
	3A	Fine to Medium Grained Sand Beaches	3,522.56	2.19	2%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	42.53	0.03	< 1%
	1B	Exposed, Solid Man-Made Structures	10,802.74	6.71	7%

Total ESI Shoreline:	156,570.12	Total ESI Shoreline:	97.29
Total Shoreline:	91,217.24	Total Shoreline:	56.68

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

