

Map 13B
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	-	-
10	Shorebird	Piping plover	General Distribution	T/E	T	Present													Mar-Aug	-	-	-	-
23	Wading	Least bittern	General Distribution	T/T		Present													Apr-Aug	Apr	Aug-Sep	-	-
77	Passerine	Saltmarsh sparrow	Concentration Area			Present													May-Aug	-	-	-	-
	Raptor	Bald eagle	Nesting	T/T		Present													Feb-Aug	-	-	-	-
	Raptor	Osprey	Nesting	-/C		Common													Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Wading	American bittern	Wintering	E/C		Abundant													Mar-Aug	-	-	-	-
	Wading	Least bittern	Nesting	T/T		Abundant													Apr-Aug	Apr	Aug-Sep	-	-
	Wading	Wading birds	Concentration Area			Abundant													Jan-Dec	-	-	-	-
	Waterfowl	Dabbling ducks	Concentration Area			Abundant													-	Jan-Dec	-	-	-
79	Gull/Tern	Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-	-
	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		4													Mar-Aug	-	-	-	-
87	Wading	Great egret	General Distribution	T/-		3													Mar-Aug	-	-	-	-
89	Gull/Tern	Common tern	General Distribution	E/T		2													May-Aug	-	-	-	-
90	Diving	Grebes	Concentration Area			Present													-	Jan-Dec	-	-	-
	Diving	Loons	Concentration Area			Present													-	Apr-May	Oct-Nov	-	-
	Gull/Tern	Black skimmer	Concentration Area	-/C		Present													Mar-Aug	-	-	-	-
	Gull/Tern	Black tern	Concentration Area			Abundant													-	-	Jul-Sep	-	-
	Gull/Tern	Common tern	Concentration Area	E/T		Abundant													May-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	E/T		Present													May-Aug	-	-	-	-
	Gull/Tern	Forster's tern	Concentration Area			Abundant													Apr-Aug	-	-	-	-
	Gull/Tern	Least tern	Concentration Area	T/T		Abundant													Apr-Aug	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/T		Present													Apr-Aug	-	-	-	-
	Gull/Tern	Roseate tern	Concentration Area	E/E	E	Abundant													May-Aug	-	-	-	-
	Passerine	Saltmarsh sparrow	Concentration Area			Present													May-Aug	-	-	-	-
	Shorebird	American oystercatcher	Nesting	T/-		Present													Mar-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-	-
	Shorebird	Red knot	Concentration Area		T	Abundant													-	May-Jun	Sep-Nov	-	-
	Shorebird	Semipalmated sandpiper	Concentration Area			Present													-	-	Jul-Oct	-	-
	Shorebird	Shorebirds	Concentration Area			Highly Abundant													-	Jan-Dec	-	-	-
	Wading	Wading birds	Concentration Area			Present													Jan-Dec	-	-	-	-
	Waterfowl	Brant	Concentration Area			Highly Abundant													-	Mar-May	Oct-Nov	-	-
	Waterfowl	Goldeneye	Concentration Area			Common													-	Apr-May	Nov-Dec	-	-
	Waterfowl	Greater scaup	Concentration Area			Abundant													-	-	-	-	-
	Waterfowl	Redhead	Concentration Area			Common													-	Nov-Mar	-	-	-
91	Wading	Snowy 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				
92	Passerine	Saltmarsh sparrow	Concentration Area			Present												May-Aug	-	-	-	-
	Raptor	Bald eagle	General Distribution	T/T		Present												Feb-Aug	-	-	-	-
	Raptor	Bald eagle	Nesting	T/T		Present												Feb-Aug	-	-	-	-
	Raptor	Osprey	General Distribution	-C		2												Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Raptor	Osprey	Nesting	-C		Common												Mar-Aug	Mar-Jun	Jul-Nov	-	-
	Wading	American bittern	Wintering	E/C		Abundant												Mar-Aug	-	-	-	-
	Wading	Least bittern	General Distribution	T/T		4												Apr-Aug	Apr	Aug-Sep	-	-
	Wading	Least bittern	Nesting	T/T		Abundant												Apr-Aug	Apr	Aug-Sep	-	-
	Wading	Wading birds	Concentration Area			Abundant												Jan-Dec	-	-	-	-
	Waterfowl	Dabbling ducks	Concentration Area			Abundant												-	Jan-Dec	-	-	-
93	Passerine	Purple martin	General Distribution	C/-		2												Apr-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		2												Mar-Aug	-	-	-	-
	Wading	YC night-heron	General Distribution	C/-		Present												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					
429	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
447	Diadromous	Brown trout (sea run)	Migration			Uncommon													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Sep-Jan
453	Diadromous	Alewife	Spawning Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
497	Diadromous	Alewife	Spawning Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
512	Estuarine Resident	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
514	Estuarine Nursery	Atlantic menhaden	Nursery Area			Common													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
523	Diadromous	Alewife	Spawning Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	Brown trout	Nursery Area			Common													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Jan-Dec
	Freshwater	Brook trout	Nursery Area			Common													Sep-Dec	Sep-Apr	Feb-May	Jan-Dec	Jan-Dec
551	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
567	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	Striped bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
	Marine Benthic	Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Sep-May	Sep-May
568	Estuarine Nursery	Northern kingfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Apr-Nov	Apr-Nov
	Estuarine Nursery	Northern puffer	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Northern pipefish	Nursery Area			Abundant													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	Inshore lizardfish	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
569	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Resident	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
570	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Resident	Northern pipefish	Nursery Area			Common													Apr-Aug	-	May-Sep	Jan-Dec	Jan-Dec
571	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul

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					
572	Diadromous	Alewife	Spawning Area			Common													Mar-Jun	Mar-Jun	Mar-Jun	Mar-Oct	Mar-Oct
	Diadromous	Brown trout (sea run)	Spawning Area			Uncommon													Oct-Nov	Oct-Apr	Feb-May	Jan-Dec	Sep-Jan
573	Diadromous	Alewife	Spawning Area			Abundant													Mar-Jun	Mar-Jun	Mar-Jun	Mar-Oct	Mar-Oct
	Diadromous	American eel	Nursery Area			Abundant													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Banded killifish	Nursery Area			Uncommon													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
574	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
575	Diadromous	American shad	Migration			Common													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
	Diadromous	Blueback herring	Nursery Area	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
576	Estuarine Nursery	Summer flounder	Concentration Area			Abundant													-	-	-	Mar-Nov	Mar-Nov
	Marine Benthic	Tautog	Nursery Area			Abundant													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
577	Diadromous	Alewife	Spawning Area			Uncommon													Mar-Jun	Mar-Jun	Mar-Jun	Mar-Oct	Mar-Oct

HABITATS & RARE PLANTS

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					
797	Plant	New Eng. blazing star	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
800	Plant	Welsh mudwort	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
801	Plant	Widowsfrill	Vulnerable Occurrence	T/-		Present													-	-	-	-	-
821	Plant	Leonard's skullcap	Vulnerable Occurrence			Present													-	-	-	-	-
	Plant	New Eng. blazing star	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
822	Plant	Common persimmon	Vulnerable Occurrence	C/T		150													-	-	-	-	-
823	Upland	Bitter panicum	Vulnerable Occurrence	T/-		Present													-	-	-	-	-
824	Plant	False Indian plaitain	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
	Plant	Squarrose sedge	Vulnerable Occurrence	C/-		Present													-	-	-	-	-

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					
962	Turtle	Diamondback terrapin	Vulnerable Occurrence	C/-		Present													Jun-Jul	Aug-Oct	-	Jan-Dec	Jan-Dec
964	Turtle	Diamondback terrapin	Vulnerable Occurrence	C/-		Present													Jun-Jul	Aug-Oct	-	Jan-Dec	Jan-Dec
	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		Present													May-Jun	Jul-Sep	-	Jan-Dec	Jan-Dec
	Turtle	Wood turtle	Vulnerable Occurrence	C/-		Present													Apr-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					
987	Bivalve	Eastern oyster	Concentration Area			Present													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
996	Crab	Horseshoe crab	Spawning Area			Present													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
997	Lobster	American lobster	Nursery Area			Common													Jun-Nov	Jan-Dec	May-Aug	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													-	-	-	-
 Shorebird	American oystercatcher	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
	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	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
 Estuarine Nursery	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
	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
	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			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
	Grubby	Nursery Area			Common													Dec-Apr	Dec-Apr	Jan-May	Jan-Dec	Jan-Dec
	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	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
	Tautog	Nursery Area			Common													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
	Atlantic mackerel	Nursery Area			Common													Apr-Jun	Apr-Jun	Apr-Jun	Apr-Nov	Apr-Nov
	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	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	-

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

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		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	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	-	-	-
		Blue jay												Apr-Aug	Mar-May	Sep-Oct	-
		Carolina wren												Apr-Jul	-	-	-
		Chimney swift												Jun-Jul	Apr-May	Aug-Sep	-
		Chipping sparrow												Mar-Aug	-	-	-
		Common grackle												Mar-Aug	-	-	-
		Common yellowthroat												Apr-Aug	-	-	-
		Downy woodpecker												Mar-Aug	-	-	-
		Eastern phoebe												May-Jul	Apr-May	Sep-Nov	-
		European starling												Mar-Aug	-	-	-
		Fish crow												Mar-Aug	-	-	-
		Gray catbird												Mar-Aug	-	-	-
		House finch												Mar-Aug	-	-	-
		House sparrow												Mar-Aug	-	-	-
		Marsh wren												Apr-Aug	-	-	-
		Northern cardinal												Mar-Aug	-	-	-
		Northern mockingbird												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				
	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	Greater yellowlegs													-	May-Jun	Sep-Oct	-
	Killdeer													Mar-Aug	-	-	-
	Least sandpiper													-	Apr-Jun	Aug-Oct	-
	Semipalmated plover													-	Apr-Jun	Sep-Nov	-
	Willet													Apr-Aug	-	-	-
 Wading	Clapper rail													Mar-Aug	-	-	-
	Green heron													Apr-Aug	-	-	-
 Waterfowl	American black duck													Apr-May	Mar-Apr	Sep-Nov	-
	Black scoter													-	-	-	-
	Bufflehead													-	Oct-Jun	-	-
	Canada goose													Mar-Aug	Jan-Dec	-	-
	Canvasback													-	-	-	-
	Common goldeneye													-	Nov-Apr	-	-
	Common merganser													-	-	-	-
	Gadwall													Jan-Dec	-	-	-
	Greater scaup													-	-	-	-
	Green-winged teal													-	Mar-Apr	Sep-Oct	-
	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	-	-





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	Black crappie													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	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
	Common carp													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec

FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Golden shiner													May-Aug	May-Aug	May-Aug	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
	Redbreast sunfish													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Redfin pickerel													Mar-May	Mar-May	Mar-May	Jan-Dec	Jan-Dec
	Walleye													Mar-Apr	Mar-Apr	Mar-May	Jan-Dec	Jan-Dec
	White sucker													Apr-May	Apr-Jun	Apr-Jun	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	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
	Green crab													Mar-Sep	Mar-Sep	May-Oct	Jan-Dec	Jan-Dec
	Horseshoe crab													May-Jun	Jun-Jul	-	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	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

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

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	693.93	1.08
	10B	Freshwater Marshes	137.46	0.21
	10C	Swamps	394.71	0.62
	10D	Scrub and Shrub Wetlands	70.96	0.11
	9A	Sheltered Tidal Flats	66.49	0.10
	7	Exposed Tidal Flats	64.91	0.10
	2A	Exposed Wave-Cut Platforms In Bedrock	10.32	0.02

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	65,823.52	40.90	25%
	10B	Freshwater Marshes	1,040.76	0.65	< 1%
	10C	Swamps	420.51	0.26	< 1%
	10D	Scrub and Shrub Wetlands	391.50	0.24	< 1%
	9A	Sheltered Tidal Flats	19,289.34	11.99	7%
	9B	Vegetated Low Banks	93,509.47	58.10	35%
	8A	Sheltered Scarps (Bedrock/Mud/Clay)	152.28	0.09	< 1%
	8A	Sheltered, Impermeable, Rocky Shores	562.24	0.35	< 1%
	8A	Sheltered Scarps (Bedrock/Mud/Clay)	152.28	0.09	< 1%
	8A	Sheltered, Impermeable, Rocky Shores	562.24	0.35	< 1%
	8B	Sheltered, Solid Man-Made Structures	15,531.43	9.65	6%
	8C	Sheltered Riprap	4,037.25	2.51	2%
	7	Exposed Tidal Flats	9,479.48	5.89	4%
	6A	Gravel Beaches	2,280.61	1.42	1%
	6B	Riprap	8,410.71	5.23	3%
	5	Mixed Sand and Gravel Beaches	4,952.34	3.08	2%
	4	Coarse Grained Sand Beaches	8,504.69	5.28	3%
	3A	Fine to Medium Grained Sand Beaches	57.83	0.04	< 1%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	11,501.86	7.15	4%
	1A	Exposed, Rocky Shores	4,897.57	3.04	2%
	1B	Exposed, Solid Man-Made Structures	13,067.34	8.12	5%

Total ESI Shoreline:	263,910.72	Total ESI Shoreline:	163.99
Total Shoreline:	156,588.17	Total Shoreline:	97.30

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

