

**Map 6B**  
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 6B**  
**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				
21	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	-
	Waterfowl	Dabbling ducks	Concentration Area			Abundant													-	Jan-Dec	-	-

**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
459	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
475	Diadromous	Alewife	Migration			Abundant													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American eel	Migration			Abundant													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	American shad	Migration			Abundant													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
	Diadromous	Atlantic sturgeon	Vulnerable Occurrence	E/-	E	Rare													May-Jun	May-Jun	May-Jun	Jan-Dec	Jan-Dec
	Diadromous	Blueback herring	Migration	C/-		Abundant													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Hickory shad	Migration			Common													Jun-Aug	Jun-Aug	Jun-Aug	Jul-Nov	Jun-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Diadromous	Shortnose sturgeon	Vulnerable Occurrence	E/E	E	Rare													-	-	-	Nov-May	Nov-May
	Diadromous	Striped bass	Migration			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Estuarine Nursery	Hogchoker	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Atlantic silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Inland silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Sheepshead minnow	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
479	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
	Diadromous	Blueback herring	Nursery Area	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
505	Diadromous	Alewife	Migration			Abundant													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	American eel	Migration			Abundant													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	American shad	Migration			Abundant													May-Jul	May-Jul	May-Aug	Jun-Nov	Apr-Jul
	Diadromous	Atlantic sturgeon	Vulnerable Occurrence	E/-	E	Rare													May-Jun	May-Jun	May-Jun	Jan-Dec	Jan-Dec
	Diadromous	Blueback herring	Migration	C/-		Abundant													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Hickory shad	Migration			Common													Jun-Aug	Jun-Aug	Jun-Aug	Jul-Nov	Jun-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					
	Diadromous	Shortnose sturgeon	Vulnerable Occurrence	E/E	E	Rare													-	-	-	Nov-May	Nov-May
	Diadromous	Striped bass	Migration			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Abundant													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Estuarine Nursery	Hogchoker	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Atlantic silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Inland silverside	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Estuarine Resident	Sheepshead minnow	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
	Estuarine Resident	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
506	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
	Diadromous	Blueback herring	Nursery Area	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Estuarine Nursery	Atlantic menhaden	Nursery Area			Common													May-Oct	May-Oct	May-Nov	Apr-Nov	Apr-Nov
	Estuarine Nursery	Hogchoker	Nursery Area			Common													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Estuarine Nursery	Winter flounder	Nursery Area			Common													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
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	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			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
507	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
	Diadromous	Blueback herring	Nursery Area	C/-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Freshwater	Bridle shiner	Vulnerable Occurrence	C/-		Uncommon													May-Jul	May-Jul	May-Jul	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					
762	Plant	Goldenclub	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
770	Plant	Woolly beachheather	Vulnerable Occurrence	T/-		Present													-	-	-	-	-
780	Plant	Devil's-tongue	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
792	Plant	Dillenius' ticktrefoil	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
	Plant	Goldenclub	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
	Plant	Lesser snakeroot	Vulnerable Occurrence	E/E		Present													-	-	-	-	-
793	Plant	Estuary pipewort	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
	Plant	Goldenclub	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
794	Plant	Drumheads	Vulnerable Occurrence	E/-		Present													-	-	-	-	-
795	Plant	Smooth hedge-nettle	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					
960	Turtle	Rare reptile	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					
988	Insect	Rare insect	Vulnerable Occurrence			Present													-	-	-	-	Jan-Dec
	Insect	Threatened insect	Vulnerable Occurrence	E/-	T	Present													-	-	-	-	Jan-Dec
992	Bivalve	Rare freshwater mussel	Vulnerable Occurrence			Present													Jul-Sep	-	-	Jan-Dec	Jan-Dec

## TERRESTRIAL MAMMALS


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					
1049	Bat	Silver-haired bat	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
1051	Bat	Eastern red bat	Vulnerable Occurrence	C/-		Present													-	-	-	-	-
1052	Bat	Hoary bat	Vulnerable Occurrence	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				
	American black duck													Apr-May	Mar-Apr	Sep-Nov	-
	Bufflehead													-	Oct-Jun	-	-
	Common merganser													-	-	-	-
	Green-winged teal													-	Mar-Apr	Sep-Oct	-
	Mallard													Mar-Aug	-	-	-
	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													Apr-Jun	Apr-Jun	Apr-Jun	Jan-Dec	Jan-Dec
	Freshwater													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
	Channel catfish													May-Jul	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	Common carp													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	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
	Rock bass													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Smallmouth bass													May-Jun	May-Jun	May-Jul	Jan-Dec	Jan-Dec
	Spottail shiner													Jun-Jul	Jun-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	White catfish													May-Jul	May-Jul	Jun-Aug	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					
	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
	Shrimp	Grass shrimp												May-Oct	May-Oct	May-Oct	May-Oct	Jan-Dec

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

ESI Rank	Habitat Classification	Area (Acres)	Area (Sq. Miles)
 10B	Freshwater Marshes	514.41	0.80
 10C	Swamps	1,098.44	1.72
 10D	Scrub and Shrub Wetlands	420.15	0.66
 9A	Sheltered Tidal Flats	13.47	0.02
 7	Exposed Tidal Flats	27.13	0.04

### ESI SHORELINE HABITAT TYPES

ESI Rank	Shoreline Habitat Classification	Length (Meters)	Length (Miles)	% of ESI Shoreline
 10B	Freshwater Marshes	46,827.29	29.10	42%
 10C	Swamps	3,821.58	2.37	3%
 10D	Scrub and Shrub Wetlands	9,296.55	5.78	8%
 9A	Sheltered Tidal Flats	2,946.09	1.83	3%
 9B	Vegetated Low Banks	30,380.87	18.88	27%
 8A	Sheltered, Impermeable, Rocky Shores	778.94	0.48	1%
 8B	Sheltered, Solid Man-Made Structures	7,438.60	4.62	7%
 8C	Sheltered Riprap	3,772.54	2.34	3%
 7	Exposed Tidal Flats	2,268.09	1.41	2%
 5	Mixed Sand and Gravel Beaches	899.17	0.56	1%
 4	Coarse Grained Sand Beaches	1,910.73	1.19	2%
 3A	Fine to Medium Grained Sand Beaches	606.89	0.38	1%

Total ESI Shoreline:	110,947.33	Total ESI Shoreline:	68.94
Total Shoreline:	87,625.29	Total Shoreline:	54.45

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)

