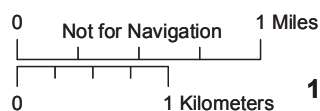


Map 16B
Long Island Sound



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



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Map 16B
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				
54	Wading	YC night-heron	General Distribution	C/-		Present													Mar-Aug	-	-	-
60	Passerine	Purple martin	General Distribution	C/-		Present													Apr-Aug	-	-	-
118	Raptor	Long-eared owl	General Distribution	E/-		Present													-	Jan-Mar	-	-
125	Diving	Common loon	General Distribution	C/C		10S													-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		Present													Apr-Aug	-	-	-
126	Diving	Common loon	General Distribution	C/C		2													-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		5													Apr-Aug	-	-	-
	Gull/Tern	Roseate tern	General Distribution	E/E	E	Present													May-Aug	-	-	-
127	Raptor	Osprey	General Distribution	-/C		10S													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Great egret	General Distribution	T/-		Present													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		5													Mar-Aug	-	-	-
128	Diving	Common loon	Wintering	C/C		Present													-	-	-	-
	Diving	Horned grebe	Wintering			Present													-	-	-	-
	Diving	Red-throated loon	Wintering			Present													-	-	-	-
	Gull/Tern	Bonaparte's gull	Wintering			Abundant													-	-	-	-
	Gull/Tern	Laughing gull	Concentration Area			Highly Abundant													Apr-Aug	-	-	-
	Waterfowl	Waterfowl	Wintering			Abundant													-	Jan-Dec	-	-
129	Wading	Great egret	General Distribution	T/-		5													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		3													Mar-Aug	-	-	-
130	Raptor	Osprey	General Distribution	-/C		9													Mar-Aug	Mar-Jun	Jul-Nov	-
	Wading	Great egret	General Distribution	T/-		8													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		4													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
544	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
585	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Resident	Striped killifish	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
600	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Diadromous	Striped bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	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 Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov

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					
601	Estuarine Resident	Atlantic silverside	Nursery Area			Abundant													May-Aug	May-Aug	May-Aug	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
	Diadromous	American eel	Nursery Area			Common													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	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 Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
604	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	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
	Diadromous	Striped bass	Harvest Area			Common													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Bluefish	Harvest Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Estuarine Nursery	Scup	Harvest Area			Abundant													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Weakfish	Harvest Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Marine Benthic	Tautog	Harvest Area			Common													Apr-Sep	Apr-Sep	May-Sep	Jan-Dec	Jan-Dec
605	Estuarine Nursery	Black sea bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													-	-	-	Jun-Oct	Jun-Oct
	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 Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	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	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
606	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	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Estuarine Nursery	White perch	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Aug	Jan-Dec	Jan-Dec
	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
	Diadromous	Blueback herring	Spawning Area	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Spawning Area			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Diadromous	Alewife	Nursery Area			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
607	Diadromous	Blueback herring	Nursery Area	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Diadromous	Alewife	Spawning Area			Abundant													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
608	Diadromous	Blueback herring	Nursery Area	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Diadromous	Alewife	Spawning Area			Abundant													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
609	Diadromous	Blueback herring	Nursery Area	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Diadromous	Alewife	Spawning Area			Abundant													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	Blueback herring	Nursery Area	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			Common													May-Jun	May-Jun	Jan-Dec	Apr-Jul	Apr-Jul
	Estuarine Resident	Mummichog	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Diadromous	Alewife	Spawning Area			Abundant													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Diadromous	Blueback herring	Nursery Area	CI-		Common													May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Diadromous	Sea lamprey	Migration			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											
				S	F		J	F	M	A	M	J	J	A	S	O	N	D
835	Plant	Sand dropseed	Vulnerable Occurrence	T/-		Present												-
	Plant	Seaside threeawn	Vulnerable Occurrence	E/-		Present												-
	Upland	Bitter panicum	Vulnerable Occurrence	T/-		Present												-
836	Plant	N. coastal violet	Vulnerable Occurrence	E/-		Present												-

INVERTEBRATES



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
994	Insect	Rare insect	Vulnerable Occurrence			Present												-
997	Lobster	American lobster	Nursery Area			Common												-

TERRESTRIAL MAMMALS



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
1050	Small Mammal	New England cottontail	Vulnerable Occurrence			Present												-

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				
	Gull/Tern	Common tern	General Distribution	E/T		Present											May-Aug	-	-	-
	Shorebird	American oystercatcher	General Distribution	T/-		Present											Mar-Aug	-	-	-
		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					
	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
	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

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	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	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
		Little skate	Nursery Area			Common													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
		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
	Marine Pelagic	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

	<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	Eastern oyster	Concentration Area			Present													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec

MARINE MAMMALS


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

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						
	Diving	D. crested cormorant														Mar-Aug	-	-	-	-
		Horned grebe														-	-	-	-	-
		Red-necked grebe														-	-	-	-	-
		Red-throated loon														-	-	-	-	-
	Gull/Tern	Forster's tern														Apr-Aug	-	-	-	-
		G. black-backed gull														Mar-Aug	-	-	-	-
		Herring gull														Mar-Aug	-	-	-	-
		Ring-billed gull														-	-	-	-	-


BIRDS (continued)

		<i>Subelement</i>	<i>Species</i>	<i>Monthly Presence</i>												<i>Nest</i>	<i>Mig.(S)</i>	<i>Mig.(F)</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>					
		Passerine	Acadian flycatcher													Jun-Jul	May-Jun	Aug-Sep	-	-
			American crow													Mar-Aug	-	-	-	-
			American goldfinch													Mar-Aug	-	-	-	-
			American robin													Mar-Aug	-	-	-	-
			Barn Swallow													Apr-Aug	-	-	-	-
			Blue jay													Apr-Aug	Mar-May	Sep-Oct	-	-
			Chimney swift													Jun-Jul	Apr-May	Aug-Sep	-	-
			Common grackle													Mar-Aug	-	-	-	-
			Common yellowthroat													Apr-Aug	-	-	-	-
			Eastern phoebe													May-Jul	Apr-May	Sep-Nov	-	-
			European starling													Mar-Aug	-	-	-	-
			Gray catbird													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	-	-	-	-
			Swamp sparrow													Mar-Aug	-	-	-	-
			Tree swallow													Mar-Aug	-	-	-	-
			Willow flycatcher													May-Aug	-	-	-	-
			Yellow warbler													Apr-Aug	-	-	-	-
		Pelagic	Black-legged kittiwake													-	-	-	-	-
			Northern gannet													-	-	-	-	-
		Shorebird	Greater yellowlegs													-	May-Jun	Sep-Oct	-	-
			Killdeer													Mar-Aug	-	-	-	-
			Semipalmated plover													-	Apr-Jun	Sep-Nov	-	-
			Willet													Apr-Aug	-	-	-	-
		Wading	BC night-heron													Mar-Aug	-	-	-	-
			Clapper rail													Mar-Aug	-	-	-	-
		Waterfowl	American black duck													Apr-May	Mar-Apr	Sep-Nov	-	-
			American wigeon													-	-	-	-	-
			Black brant													-	May	Oct	-	-
			Black scoter													-	-	-	-	-
			Blue-winged teal													-	Mar-May	Sep-Nov	-	-
			Bufflehead													-	Oct-Jun	-	-	-
			Canada goose													Mar-Aug	Jan-Dec	-	-	-
			Canvasback													-	-	-	-	-
			Common eider													Sep-May	-	-	-	-
			Common goldeneye													-	Nov-Apr	-	-	-





BIRDS (continued)

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
		J	F	M	A	M	J	J	A	S	O	N	D				
	Common merganser													-	-	-	-
	Eurasian wigeon													-	-	-	-
	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 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					
 Freshwater	Bluegill													May-Jun	May-Jun	May-Jul	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
	White sucker													Apr-May	Apr-Jun	Apr-Jun	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													-	-	-	-
	Pinniped													-	-	-	-
	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

ESI Rank	Habitat Classification	Area (Acres)	Area (Sq. Miles)
 10A	Salt and Brackish Water Marshes	261.25	0.41
 10B	Freshwater Marshes	50.60	0.08
 10C	Swamps	210.37	0.33
 10D	Scrub and Shrub Wetlands	30.39	0.05
 9A	Sheltered Tidal Flats	99.44	0.16
 7	Exposed Tidal Flats	260.90	0.41

ESI SHORELINE HABITAT TYPES

ESI Rank	Shoreline Habitat Classification	Length (Meters)	Length (Miles)	% of ESI Shoreline
 10A	Salt and Brackish Water Marshes	25,945.20	16.12	21%
 10B	Freshwater Marshes	1,940.23	1.21	2%
 10C	Swamps	1,300.43	0.81	1%
 10D	Scrub and Shrub Wetlands	201.52	0.13	< 1%
 9A	Sheltered Tidal Flats	9,098.82	5.65	7%
 9B	Vegetated Low Banks	48,818.45	30.33	39%
 8A	Sheltered, Impermeable, Rocky Shores	54.87	0.03	< 1%
 8B	Sheltered, Solid Man-Made Structures	5,183.14	3.22	4%
 8C	Sheltered Riprap	1,932.32	1.20	2%
 7	Exposed Tidal Flats	8,668.16	5.39	7%
 6A	Gravel Beaches	128.84	0.08	< 1%
 6B	Riprap	5,272.51	3.28	4%
 5	Mixed Sand and Gravel Beaches	1,468.80	0.91	1%
 4	Coarse Grained Sand Beaches	9,376.14	5.83	8%
 2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	322.89	0.20	< 1%
 1B	Exposed, Solid Man-Made Structures	3,956.60	2.46	3%

Total ESI Shoreline:	123,668.92	Total ESI Shoreline:	76.84
Total Shoreline:	73,558.67	Total Shoreline:	45.71

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

