

Map 28A
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

BENTHIC

	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>CT/NY</i>		<i>Concentration</i>	<i>Monthly Presence</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>
	SAV	Eelgrass	High Ecological Value			Present												

BIRDS

<i>Map ID</i>	<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>Mig.(S)</i>	<i>Mig.(F)</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>				
29	Raptor	Short-eared owl	General Distribution	T/E		Present													-	Oct-Apr	-	-
152	Diving	Common loon	General Distribution	C/C		Present													-	-	-	-
330	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-
	Passerine	Yellow-breasted chat	General Distribution	E/C		Present													May-Aug	-	-	-
	Raptor	Bald eagle	General Distribution	T/T		Present													Feb-Aug	-	-	-
	Raptor	Northern goshawk	General Distribution	T/C		Present													-	-	-	-
	Raptor	Peregrine falcon	General Distribution	T/E		Present													Mar-Aug	-	-	-
331	Passerine	Seaside sparrow	General Distribution	T/C		Present													May-Aug	-	-	-
	Passerine	Yellow-breasted chat	General Distribution	E/C		Present													May-Aug	-	-	-
	Raptor	Bald eagle	General Distribution	T/T		Present													Feb-Aug	-	-	-
	Raptor	Northern goshawk	General Distribution	T/C		Present													-	-	-	-
	Raptor	Peregrine falcon	General Distribution	T/E		Present													Mar-Aug	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-
332	Raptor	Barn owl	General Distribution	E/-		Present													Mar-Aug	-	-	-
	Shorebird	American oystercatcher	General Distribution	T/-		10S													Mar-Aug	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		10S													Mar-Aug	-	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-
	Wading	Little blue heron	General Distribution	C/-		Present													Apr-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-
333	Raptor	Barn owl	General Distribution	E/-		Present													Mar-Aug	-	-	-
	Wading	Little blue heron	General Distribution	C/-		Present													Apr-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-
334	Passerine	Horned lark	General Distribution	E/C		Present													Mar-May	-	-	-
	Wading	Great egret	General Distribution	T/-		Present													Mar-Aug	-	-	-
	Wading	Snowy egret	General Distribution	T/-		Present													Mar-Aug	-	-	-
335	Gull/Tern	Black skimmer	Concentration Area	-C		Present													Mar-Aug	-	-	-
	Gull/Tern	Common tern	Concentration Area	E/T		Present													May-Aug	-	-	-
	Gull/Tern	Least tern	Concentration Area	T/T		Present													Apr-Aug	-	-	-
	Passerine	Horned lark	Nesting	E/C		Present													Mar-May	-	-	-
	Shorebird	Piping plover	Nesting	T/E	T	Present													Mar-Aug	-	-	-
336	Diving	Common loon	Wintering	C/C		Present													-	-	-	-
337	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-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					
	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	Glossy ibis	General Distribution	C/-		Present													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		7													Mar-Aug	-	-	-	-
338	Shorebird	American oystercatcher	General Distribution	T/-		10S													Mar-Aug	-	-	-	-
	Wading	Glossy ibis	General Distribution	C/-		10S													Mar-Aug	-	-	-	-
	Wading	Great egret	General Distribution	T/-		10S													Mar-Aug	-	-	-	-
339	Gull/Tern	Least tern	General Distribution	T/T		100S													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	10S													Mar-Aug	-	-	-	-
340	Gull/Tern	Black skimmer	General Distribution	-/C		100S													Mar-Aug	-	-	-	-
	Gull/Tern	Common tern	General Distribution	E/T		1000S													May-Aug	-	-	-	-
	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-Aug	-	-	-	-
	Gull/Tern	Roseate tern	General Distribution	E/E	E	100S													May-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	4													Mar-Aug	-	-	-	-
341	Gull/Tern	Least tern	General Distribution	T/T		10S													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	General Distribution	T/E	T	8													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					
716	Diadromous	Striped bass	Nursery Area			Common													-	-	-	Apr-Nov	Apr-Nov
	Estuarine Nursery	Bluefish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	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 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	Striped killifish	Nursery Area			Common													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic	American sand lance	Nursery Area			Common													Nov-Mar	Nov-Mar	Dec-Jun	Jan-Dec	Jan-Dec
717	Estuarine Nursery	Bluefish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Estuarine Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Winter flounder	Nursery Area			Common													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
	Estuarine Resident	Mummichog	Nursery Area			Abundant													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
718	Estuarine Nursery	Bluefish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Estuarine Nursery	Scup	Nursery Area			Common													May-Aug	May-Aug	May-Aug	May-Nov	May-Nov
	Estuarine Nursery	Winter flounder	Nursery Area			Common													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
719	Diadromous	Alewife	Migration			Common													Apr-Jul	Apr-Jul	Apr-Jul	Apr-Nov	Apr-Nov
	Estuarine Nursery	Atlantic herring	Nursery Area			Abundant													-	-	Mar-May	Jan-Dec	Jan-Dec
	Estuarine Nursery	Bluefish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
	Estuarine Nursery	Weakfish	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Jul-Nov	May-Nov
	Estuarine Nursery	Winter flounder	Nursery Area			Common													Feb-May	Feb-May	Mar-Jun	Jan-Dec	Jan-Dec
	Marine Benthic	Red hake	Nursery Area			Common													-	-	-	Mar-Nov	Mar-Nov
	Marine Benthic	Silver hake	Nursery Area			Common													-	-	May-Oct	Mar-Nov	Mar-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					
	Marine Benthic	Striped searobin	Nursery Area			Common													May-Sep	May-Sep	May-Sep	Apr-Nov	Apr-Nov
	Marine Pelagic	Butterfish	Nursery Area			Abundant													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec
	Marine Pelagic	Spiny dogfish	Nursery Area			Common													-	-	-	May-Nov	May-Nov

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					
760	FAV	Featherfoil	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
808	Plant	Field paspalum	Vulnerable Occurrence	E/E		Present													-	-	-	-	-
839	Wetland	Northern gamma grass	Vulnerable Occurrence	-/T		Present													-	-	-	-	-
865	Upland	Seaside knotweed	Vulnerable Occurrence	C/C		Present													-	-	-	-	-
884	Plant	Clustered mountainmint	Vulnerable Occurrence	-/T		Present													-	-	-	-	-
885	Plant	Dwarf saltwort	Vulnerable Occurrence	-/T		20													-	-	-	-	-
	Plant	New Eng. blazing star	Vulnerable Occurrence	C/T		Present													-	-	-	-	-
	Plant	Sm. false foxglove	Vulnerable Occurrence	-/T		100S													-	-	-	-	-

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
970	Turtle	K. ridley sea turtle	Vulnerable Occurrence	E/E	E	Present													-	-	-	Jun-Nov	-
972	Turtle	Green sea turtle	Vulnerable Occurrence	T/T	T	Present													-	-	-	Jun-Nov	-
	Turtle	K. ridley sea turtle	Vulnerable Occurrence	E/E	E	Present													-	-	-	Jun-Nov	-
	Turtle	Loggerhead sea turtle	Vulnerable Occurrence	T/T	E	Present													-	-	-	Jun-Nov	-
978	Turtle	Diamondback terrapin	Vulnerable Occurrence	C/-		Present													Jun-Jul	Aug-Oct	-	Jan-Dec	Jan-Dec
	Turtle	Spotted turtle	Vulnerable Occurrence	C/C		Present													May-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					
1023	Bivalve	Eastern oyster	Harvest Area			Moderate													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Bivalve	Northern quahog	Harvest Area			Moderate													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
	Gastropod	Channeled whelk	Harvest Area			Low													Sep-Nov	Sep-Nov	-	Jan-Dec	Jan-Dec

MARINE MAMMALS






Map ID	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					
1042	Pinniped	Harbor seal	Haul Out			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	N	D				
	Diving	Common loon	General Distribution	C/C	10S													-	-	-	-
		D. crested cormorant	Nesting		Present													Mar-Aug	-	-	-
		Pied-billed grebe	General Distribution	E/T	5													-	-	-	-
	Gull/Tern	Pied-billed grebe	General Distribution	E/T	10S													-	-	-	-
		Black skimmer	General Distribution	-/C	Present													Mar-Aug	-	-	-
		Black skimmer	Nesting	-/C	Present													Mar-Aug	-	-	-
		Common tern	General Distribution	E/T	10S													May-Aug	-	-	-
		Common tern	General Distribution	E/T	Present													May-Aug	-	-	-
		Common tern	Nesting	E/T	Present													May-Aug	-	-	-
		G. black-backed gull	Nesting		Present													Mar-Aug	-	-	-
		Herring gull	Nesting		Present													Mar-Aug	-	-	-
		Least tern	General Distribution	T/T	Present													Apr-Aug	-	-	-
		Least tern	Nesting	T/T	Present													Apr-Aug	-	-	-
		Roseate tern	General Distribution	E/E E	Present													May-Aug	-	-	-
		Roseate tern	Nesting	E/E E	Present													May-Aug	-	-	-
	Passerine	Bank swallow	Nesting		Present													Apr-Aug	-	-	-
		Yellow-breasted chat	Nesting	E/C	Present													May-Aug	-	-	-
	Raptor	Bald eagle	Wintering	T/T	Present													Feb-Aug	-	-	-
		Northern harrier	General Distribution	E/T	Present													Mar-Aug	-	-	-
		Northern harrier	Nesting	E/T	Present													Mar-Aug	-	-	-
		Osprey	General Distribution	-/C	Present													Mar-Aug	Mar-Jun	Jul-Nov	-
		Osprey	Nesting	-/C	Present													Mar-Aug	Mar-Jun	Jul-Nov	-
		Red-tailed hawk	Nesting		Present													Mar-Aug	-	-	-
	Shorebird	Snowy owl	Wintering		Present													-	Mar-Apr	Nov-Dec	-
		American oystercatcher	General Distribution	T/-	Present													Mar-Aug	-	-	-
		American oystercatcher	Nesting	T/-	Present													Mar-Aug	-	-	-
		Piping plover	General Distribution	T/E T	Present													Mar-Aug	-	-	-
	Wading	BC night-heron	Nesting		Present													Mar-Aug	-	-	-
		Great egret	Nesting	T/-	Present													Mar-Aug	-	-	-
	Waterfowl	Snowy egret	Nesting	T/-	Present													Mar-Aug	-	-	-
		American black duck	Wintering		Present													Apr-May	Mar-Apr	Sep-Nov	-
		Brant	Wintering		Present													-	Mar-May	Oct-Nov	-
		Bufflehead	Wintering		Present													-	Oct-Jun	-	-
		Canada goose	Nesting		Present													Mar-Aug	Jan-Dec	-	-
		Gadwall	Nesting		Present													Jan-Dec	-	-	-
		Greater scaup	Wintering		Present													-	-	-	-
		Lesser scaup	Wintering		Present													-	-	-	-
		Long-tailed duck	Wintering		Present													-	-	-	-
		Red-breasted merganser	Wintering		Present													-	-	-	-
		Ruddy duck	Wintering		Present													-	-	-	-
		Waterfowl	Wintering		Present													-	Jan-Dec	-	-
		White-winged scoter	Wintering		Present													-	Sep-May	-	-



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													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			Common													-	-	Mar-May	Jan-Dec	Jan-Dec
		Atlantic menhaden	Nursery Area			Common													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			Abundant													Jun-Sep	Jun-Sep	Jun-Sep	Jun-Nov	Apr-Nov
		Northern kingfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Apr-Nov	Apr-Nov
		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
		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
		Oyster toadfish	Nursery Area			Common													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
		Atlantic tomcod	Nursery Area			Common													Nov-Feb	Nov-Mar	Dec-May	Jan-Dec	Jan-Dec
	Marine Benthic	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
		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			Common													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	-

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	Bay scallop	Harvest Area			Low													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			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
		Horseshoe crab	Nursery Area			Common													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
	Crab	American lobster	Nursery Area			Common													Jun-Nov	Jan-Dec	May-Aug	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													-	-	-	-
	Whale	N.A. right whale	General Distribution	-/E	E	Present													-	-	-	-

ALSO PRESENT IN MAPPED AREA (GENERAL DISTRIBUTION)


BIRDS

	<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>				
	Alcid	Razorbill													-	-	-	-
	Diving	D. crested cormorant													Mar-Aug	-	-	-
		Great cormorant													-	-	-	-
		Horned grebe													-	-	-	-
		Red-throated loon													-	-	-	-
	Gull/Tern	Bonaparte's gull													-	-	-	-
		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	-	-	-
		Barn Swallow													Apr-Aug	-	-	-
		Carolina wren													Apr-Jul	-	-	-
		Cedar waxwing													Mar-Aug	-	-	-
		Common grackle													Mar-Aug	-	-	-
		Common yellowthroat													Apr-Aug	-	-	-
		Eastern kingbird													Apr-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	Black-legged kittiwake													-	-	-	-
		Cory's shearwater													-	Jun-Nov	-	-
		Northern gannet													-	-	-	-
		Wilson's storm-petrel													-	-	-	-
	Raptor	Red-tailed hawk													Mar-Aug	-	-	-
	Shorebird	Black-bellied plover													-	Aug-May	-	-
		Greater yellowlegs													-	May-Jun	Sep-Oct	-





BIRDS (continued)

Subelement	Species	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
		J	F	M	A	M	J	J	A	S	O	N	D					
	Lesser yellowlegs													-	Apr-Jun	Aug-Oct	-	-
	Ruddy turnstone													-	Mar-May	Aug-Nov	-	-
	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 coot													-	-	-	-	-
	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	-	-	-
	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	-	-	-
	Wood duck													Mar-Aug	-	-	-	-

FISH

	<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>					
	Marine Benthic	American sand lance													Nov-Mar	Nov-Mar	Dec-Jun	Jan-Dec	Jan-Dec
		Cunner													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Winter skate													Jun-Jan	Jun-Jan	-	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	Northern quahog													Jun-Oct	Jun-Oct	Jun-Nov	Jan-Dec	Jan-Dec
		Ribbed mussel													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
		Softshell clam													Apr-Sep	Apr-Sep	Apr-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
		Horseshoe crab													May-Jun	Jun-Jul	-	Jan-Dec	Jan-Dec
		Jonah crab													Nov-Jun	May-Nov	Jun-Oct	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







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

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	206.74	0.32
	10B	Freshwater Marshes	0.90	0.00
	10C	Swamps	4.73	0.01
	10D	Scrub and Shrub Wetlands	7.27	0.01
	9A	Sheltered Tidal Flats	61.18	0.10
	7	Exposed Tidal Flats	92.47	0.14

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	14,077.62	8.75	18%
	9A	Sheltered Tidal Flats	6,476.61	4.02	8%
	9B	Vegetated Low Banks	19,157.86	11.90	25%
	8B	Sheltered, Solid Man-Made Structures	2,315.92	1.44	3%
	8C	Sheltered Riprap	183.62	0.11	< 1%
	7	Exposed Tidal Flats	1,869.59	1.16	2%
	6A	Gravel Beaches	487.95	0.30	1%
	6B	Riprap	1,283.69	0.80	2%
	5	Mixed Sand and Gravel Beaches	22,050.17	13.70	28%
	4	Coarse Grained Sand Beaches	4,476.64	2.78	6%
	3B	Scarps and Steep Slopes (Sand)	3,394.66	2.11	4%
	1B	Exposed, Solid Man-Made Structures	1,888.97	1.17	2%

Total ESI Shoreline:	77,663.30	Total ESI Shoreline:	48.26
Total Shoreline:	52,246.14	Total Shoreline:	32.46

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

