




Map 9A
South Long Island

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>S</i>	<i>F</i>	<i>Concentration</i>	<i>Monthly Presence</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	Submersed aquatic veg	High Ecological Value			Present												
	Algae	Macroalgae	High Ecological Value			Present												
	Bivalve	Oyster reef	High Ecological Value			Present												

BIRDS

<i>Map ID</i>	<i>Subelement</i>	<i>Species</i>	<i>Mapping Qualifier</i>	<i>S</i>	<i>F</i>	<i>Concentration</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>				
29	Raptor	Short-eared owl	Wintering	E/E		-													-	-	-	-
34	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
83	Gull/Tern	Least tern	Nesting	T/E		1-10 Pairs													May-Sep	-	-	-
121	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		50-100 Pairs													May-Sep	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	25-40 Pairs													Apr-Aug	-	-	-
124	Gull/Tern	Black skimmer	Migration	C/E		100S													-	May	Aug-Oct	-
	Gull/Tern	Common tern	Migration	T/C		100S													-	-	Aug-Sep	-
	Gull/Tern	Least tern	Migration	T/E		1S													-	-	Aug-Sep	-
	Gull/Tern	Roseate tern	Migration	E/E	E	1S													-	May	Aug-Sep	-
	Shorebird	American oystercatcher	Migration	-/C		100S													-	-	Aug-Sep	-
	Shorebird	Piping plover	Migration	E/E	T	10S													-	-	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	100S													-	Apr-May	Jul-Sep	-
	Shorebird	Sanderling	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-
125	Raptor	Short-eared owl	Nesting	E/E		-													Apr-Jul	-	-	-
129	Raptor	Endangered raptor 1	Nesting	E/E		1 Pair													Mar-Jul	-	-	-
130	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		100-500 Pairs													May-Sep	-	-	-
	Gull/Tern	Forster's tern	Nesting			50-100 Pairs													Jun-Aug	-	-	-
	Gull/Tern	Gull-billed tern	Nesting	-/C		1-10 Pairs													Jun-Sep	-	-	-
	Gull/Tern	Herring gull	Nesting			50-100 Pairs													Apr-Sep	-	-	-
131	Gull/Tern	Black skimmer	Nesting	C/E		500-100 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		100-500 Pairs													May-Sep	-	-	-
	Gull/Tern	Forster's tern	Nesting			50-100 Pairs													Jun-Aug	-	-	-
	Gull/Tern	Gull-billed tern	Nesting	-/C		1-10 Pairs													Jun-Sep	-	-	-
	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-

BIRDS (continued)

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
132	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-
	Shorebird	Plovers	Migration			-													-	Apr-May	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	-													-	Apr-May	Jul-Sep	-
	Shorebird	Shorebirds	Migration			-													-	Mar-May	-	-
133	Gull/Tern	Black skimmer	Migration	C/E		10S													-	May	Aug-Oct	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Wading	BC night-heron	Nesting	-/T		1-10 Pairs													Apr-Aug	-	-	-
134	Gull/Tern	Black skimmer	Migration	C/E		10S													-	May	Aug-Oct	-
	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-
	Gull/Tern	G. black-backed gull	Nesting			1-10 Pairs													Apr-Jul	-	-	-
	Gull/Tern	Gull-billed tern	Nesting	-/C		1-10 Pairs													Jun-Sep	-	-	-
	Gull/Tern	Herring gull	Nesting			50-100 Pairs													Apr-Sep	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		100S													-	Apr-May	Aug-Sep	-
	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-
135	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-
	Gull/Tern	Forster's tern	Nesting			1-10 Pairs													Jun-Aug	-	-	-
	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-
136	Gull/Tern	Common tern	Nesting	T/C		10-50 Pairs													May-Sep	-	-	-
	Gull/Tern	Forster's tern	Nesting			10-50 Pairs													Jun-Aug	-	-	-
	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Black skimmer	Nesting	C/E		10-50 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		50-100 Pairs													May-Sep	-	-	-
	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Black skimmer	Nesting	C/E		1-10 Pairs													Apr-Aug	-	-	-
138	Gull/Tern	Common tern	Nesting	T/C		50-100 Pairs													May-Sep	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Black skimmer	Nesting	C/E		50-100 Pairs													Apr-Aug	-	-	-
139	Gull/Tern	Common tern	Nesting	T/C		50-100 Pairs													May-Sep	-	-	-
	Gull/Tern	Forster's tern	Nesting			10-50 Pairs													Jun-Aug	-	-	-
	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-
140	Shorebird	American oystercatcher	Nesting	-/C		1-5 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Black skimmer	Migration	C/E		10S													-	May	Aug-Oct	-
	Shorebird	American oystercatcher	Migration	-/C		10S													-	-	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	1S													-	Apr-May	Jul-Sep	-
141	Shorebird	American oystercatcher	Migration	-/C		10S													-	-	Aug-Sep	-
	Shorebird	Piping plover	Migration	E/E	T	1S													-	-	Aug-Sep	-
	Shorebird	Red knot	Migration	-/E	T	10S													-	Apr-May	Jul-Sep	-
	Shorebird	Sanderling	Migration	-/C		100S													-	Apr-May	Aug-Sep	-
142	Gull/Tern	Black skimmer	Migration	C/E		100S													-	May	Aug-Oct	-
	Gull/Tern	Common tern	Migration	T/C		100S													-	-	Aug-Sep	-

BIRDS (continued)

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt	
							J	F	M	A	M	J	J	A	S	O	N	D					
	Gull/Tern	Least tern	Migration	T/E		1S													-	-	Aug-Sep	-	-
	Gull/Tern	Roseate tern	Migration	E/E	E	1S													-	May	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	10S													-	-	Aug-Sep	-	-
	Shorebird	Red knot	Migration	-E	T	100S													-	Apr-May	Jul-Sep	-	-
	Shorebird	Sanderling	Migration	-C		1000S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated sandpiper	Migration	-C		1000S													-	Apr-May	Aug-Sep	-	-
143	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-	-
144	Raptor	Osprey	General Distribution	C/-		-													Apr-Aug	-	-	-	-
	Raptor	Short-eared owl	Nesting	E/E		-													Apr-Jul	-	-	-	-
145	Shorebird	American oystercatcher	Migration	-C		100S													-	-	Aug-Sep	-	-
146	Shorebird	American oystercatcher	Migration	-C		50S-100S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Dunlin	Migration			100S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	10S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Sanderling	Migration	-C		1000S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated plover	Migration			100S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated sandpiper	Migration	-C		100S													-	-	Aug-Sep	-	-
147	Gull/Tern	Black skimmer	Nesting	C/E		1-10 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		1-10 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		1-10 Pairs													May-Sep	-	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	25-40 Pairs													Apr-Aug	-	-	-	-
148	Raptor	Northern harrier	General Distribution	T/E		1 Pair													Apr-Aug	-	-	-	-
149	Shorebird	Black-bellied plover	Migration			100S													-	-	Aug-Sep	-	-
	Shorebird	Dunlin	Migration			100S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	1S													-	Apr-May	-	-	-
	Shorebird	Red knot	Migration	-E	T	1S-50S													-	Apr-May	Jul-Sep	-	-
	Shorebird	Sanderling	Migration	-C		100S													-	Apr-May	Aug-Sep	-	-
150	Gull/Tern	Black skimmer	Nesting	C/E		100-500 Pairs													Apr-Aug	-	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		500-1000 Pairs													May-Sep	-	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		300-400 Pairs													May-Sep	-	-	-	-
	Shorebird	American oystercatcher	Nesting	-C		25-50 Pairs													Apr-Aug	-	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	10-25 Pairs													Apr-Aug	-	-	-	-
151	Shorebird	Semipalmated sandpiper	Migration	-C		100S													-	-	Aug-Sep	-	-
152	Shorebird	Dunlin	Migration			100S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	1S													-	Apr-May	-	-	-
	Shorebird	Sanderling	Migration	-C		100S													-	-	Aug-Sep	-	-
153	Shorebird	Dunlin	Migration			100S-1000S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Piping plover	Migration	E/E	T	10S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Red knot	Migration	-E	T	10S													-	Apr-May	-	-	-
	Shorebird	Sanderling	Migration	-C		100S-1000S													-	Apr-May	Aug-Sep	-	-
	Shorebird	Semipalmated plover	Migration			100S													-	-	Aug-Sep	-	-

FISH

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
390	Diadromous	Striped bass	Concentration Area			High													-	-	-	Apr-Nov	Mar-Nov
	Estuarine Nursery	Black sea bass	Concentration Area			High													-	May-Oct	May-Nov	-	-
	Estuarine Nursery	Bluefish	Concentration Area			High													-	-	-	May-Oct	Apr-Dec
	Marine Benthic	American sand lance	Concentration Area			High													Nov-Feb	Nov-Feb	Dec-Jun	Dec-Jun	Nov-May
	Marine Benthic	Tautog	Concentration Area			High													-	May-Aug	Jun-Aug	-	-
394	Diadromous	Alewife	Nursery Area			-													-	-	Mar-May	Apr-Oct	-
405	Diadromous	Alewife	Migration			-													-	-	-	Apr-Oct	Mar-May
410	Diadromous	Alewife	Spawning Area			-													Mar-May	Mar-May	-	-	Mar-May
	Diadromous	American eel	Nursery Area			-													-	-	-	Jan-Dec	-
	Freshwater	Bluegill	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Chain pickerel	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Common carp	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Largemouth bass	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Pumpkinseed	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Yellow perch	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Yellow perch	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec

HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
520	Plant	Endangered plant	Vulnerable Occurrence	E/E		-													-	-	-	-	-
523	Plant	Threatened plant	Vulnerable Occurrence	T/-		-													-	-	-	-	-
525	Plant	Rare plant	Vulnerable Occurrence	C/C		-													-	-	-	-	-
526	Wetland	Seabeach amaranth	Vulnerable Occurrence	T/E	T	-													-	-	-	-	-

REPTILES & AMPHIBIANS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
575	Turtle	N. diamondback terrapin	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
576	Turtle	N. diamondback terrapin	Nesting			100-200													Jun-Jul	Apr-Nov*	-	-	Jun-Jul

INVERTEBRATES





Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
624	Crab	Horseshoe crab	Spawning Area			-													May-Jun	May-Jul	-	-	May-Jun
626	Invertebrate	R, LT, or LE invertebrate	Vulnerable Occurrence			-													Apr-Jun	Apr-Jun	Jan-Dec	-	Jan-Dec

MARINE MAMMALS


Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Mating	Calving	Pupping	Molt	Adults
							J	F	M	A	M	J	J	A	S	O	N	D					
678	Pinniped	Seals	Concentration Area			High													-	-	-	-	-
685	Pinniped	Gray seal	Haul Out			Few													-	-	-	-	-
	Pinniped	Harbor seal	Haul Out			150													-	-	-	-	-
	Pinniped	Harp seal	Haul Out			Few													-	-	-	-	-

WIDESPREAD IN MAPPED AREA (> 10 SQUARE KILOMETERS)


BIRDS

Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
						J	F	M	A	M	J	J	A	S	O	N	D				
	Passerine	Seaside sparrow	General Distribution	C/-	-													May-Aug	-	-	-
	Raptor	Osprey	General Distribution	C/-	10S													Apr-Aug	-	-	-
	Shorebird	Shorebirds	Migration		High													-	Mar-May	-	-
		Threatened shorebird	General Distribution	T	-													May-Aug	-	-	-
	Waterfowl	Brant	Wintering		1000S													-	-	-	-
		Brant	Wintering		10000S													-	-	-	-
		Waterfowl	Migration		High													-	Mar-Apr	Oct-Nov	-
		Waterfowl	Migration		1000S													-	Mar-Apr	Oct-Nov	-
		Waterfowl	Wintering		1000S													-	-	-	-



FISH

Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
						J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous	Atlantic sturgeon	General Distribution	-/E	E	Low												-	-	-	Jan-Dec	Oct-Jun
		Atlantic sturgeon	Migration	-/E	E	High												-	-	-	May-Jul	May-Jul


REPTILES & AMPHIBIANS

Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
						J	F	M	A	M	J	J	A	S	O	N	D					
	Turtle	Green sea turtle	General Distribution	T/T	T	-												-	-	-	May-Nov	May-Nov
		K. ridley sea turtle	General Distribution	E/E	E	-												-	-	-	May-Nov	-
		Leatherback sea turtle	General Distribution	E/E	E	-												-	-	-	May-Nov	May-Nov
		Loggerhead sea turtle	General Distribution	T/E	T	-												-	-	-	May-Nov	May-Nov

INVERTEBRATES








Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
						J	F	M	A	M	J	J	A	S	O	N	D					
	Bivalve	Atlantic razor	Harvest Area		3 Bushels/Yr Avg													Apr-May	Apr-May	Apr-May	Jan-Dec	Jan-Dec
		Atlantic surfclam	Harvest Area		224702 Bushels/Yr													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
		Bay scallop	Harvest Area		1 Bushel/Yr Avg													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	Jan-Dec
		Northern quahog	Harvest Area		2034 Bushels/Yr Avg													Jun-Aug	Jun-Aug	Jun-Sep	Jan-Dec	Jan-Dec
		Softshell clam	Harvest Area		117 Bushels/Yr Avg													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
	Crab	Horseshoe crab	Concentration Area		High													-	-	-	Jan-Dec	Jan-Dec

MARINE MAMMALS



Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence												Mating	Calving	Pupping	Molt
						J	F	M	A	M	J	J	A	S	O	N	D				
	Whale	Fin whale	General Distribution	E/E	E	Common												-	-	-	-
		Humpback whale	General Distribution	E/E	E	Common												-	-	-	-
		N.A. right whale	General Distribution	E/E	E	Uncommon, Regular												-	-	-	-
		N.A. right whale	Migration	E/E	E	-												-	-	-	-

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													-	-	-	-
	Gull/Tern	G. black-backed gull													-	-	-	-
		Herring gull													-	-	-	-
	Passerine	Marsh wren													Apr-Aug	-	-	-
		Nelson's sparrow													May-Aug	-	-	-
	Pelagic	Northern gannet													-	-	-	-
		Wilson's storm-petrel													-	-	-	-
	Shorebird	Willet													May-Aug	-	-	-
	Wading	Clapper rail													Apr-Sep	-	-	-
	Waterfowl	American black duck													Apr-Aug	-	-	-
		Black scoter													-	-	-	-
		Canada goose													Mar-Jun	-	-	-
		Common eider													-	-	-	-
		Long-tailed duck													-	-	-	-
		Mallard													Mar-Sep	-	-	-
		Surf scoter													-	-	-	-
		White-winged scoter													-	-	-	-

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>					
	Diadromous	Alewife													-	-	-	Nov-Apr	Nov-Apr
		Alewife													-	-	-	Apr-Nov	Mar-Jun
		American eel													-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American eel													-	-	Jan-Feb	-	Sep-Dec
		American shad													-	-	-	Nov-Apr	Nov-Apr
		American shad													-	-	-	Apr-Nov	Apr-Jul
		Blueback herring													-	-	-	Nov-Apr	Nov-Apr
		Blueback herring													-	-	-	May-Nov	Mar-Jul
		Striped bass													-	-	-	Apr-Nov	Mar-Nov
		Striped bass													-	-	-	Mar-Nov	Mar-Nov
	Estuarine Nursery	Atlantic croaker													-	-	-	-	Jun-Dec
		Atlantic herring													-	-	-	Nov-Apr	Nov-Apr
		Atlantic herring													-	-	-	Nov-May	Nov-May
		Atlantic menhaden													Sep-Dec	Sep-Dec	Oct-Dec	Oct-Apr	Oct-Apr
		Atlantic menhaden													-	-	-	Apr-Nov	Mar-Nov
		Bay anchovy													May-Nov	May-Nov	May-Dec	Jan-Dec	Jan-Dec
		Bay anchovy													May-Jul	May-Jul	May-Dec	Jan-Dec	Jan-Dec
		Black sea bass													May-Oct	May-Oct	May-Nov	Mar-Nov	Mar-Nov
		Black sea bass													-	-	-	Apr-Nov	Apr-Nov
		Bluefish													-	-	-	May-Nov	May-Nov
		Bluefish													-	-	-	May-Oct	Apr-Dec

FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Northern kingfish													-	-	-	May-Nov	May-Nov
	Northern kingfish													-	-	-	Jun-Nov	Jun-Nov
	Northern puffer													May-Aug	Jun-Oct	Jun-Oct	May-Oct	May-Oct
	Scup													-	-	-	Apr-Dec	Apr-Dec
	Scup													-	-	-	May-Nov	May-Nov
	Spot													-	-	-	Sep-Nov	Jun-Nov
	Spot													-	-	-	Apr-Nov	Apr-Nov
	Summer flounder													Sep-Nov	Sep-Nov	Sep-Dec	Apr-Nov	Apr-Nov
	Summer flounder													-	-	-	Apr-Oct	Apr-Oct
	Weakfish													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
	Weakfish													May-Aug	May-Aug	Jun-Aug	May-Nov	Apr-Nov
	White perch													Apr-Jun	Apr-Jul	Jun-Nov	Jan-Dec	Jan-Dec
	Windowpane													Apr-Jun	Apr-Jul	Jun-Nov	Jan-Dec	Jan-Dec
	Windowpane													Mar-Nov*	Mar-Nov*	Apr-Nov*	Jan-Dec	Jan-Dec
	Winter flounder													-	-	-	Jan-Dec	Jan-Dec
	Winter flounder													Feb-Apr	Feb-Apr	Mar-Jun	Jan-Dec	Jan-Dec
	Estuarine Resident Atlantic silverside													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Atlantic silverside													-	-	-	Jan-Apr	Jan-Apr
	Killifish													May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Marine Benthic Northern pipefish													May-Aug	-	May-Oct	Jan-Dec	Jan-Dec
	American sand lance													Nov-Feb	Nov-Feb	Dec-Jun	Dec-Jun	Nov-May
	American sand lance													-	-	-	-	Oct-Jun
	Atlantic cod													-	-	-	Nov-Apr	-
	Atlantic cod													-	-	-	Nov-Apr	Nov-Apr
	Atlantic tomcod													-	-	Dec-Apr	Apr-Dec	Jan-Dec
	Clearnose skate													-	-	-	Apr-Nov	Apr-Nov
	Goosefish													-	-	-	-	Jan-Jun
	Little skate													Jan-Dec	Jan-Dec	-	Jan-Dec	Jan-Dec
	Ocean pout													-	-	-	Dec-Aug	Dec-Aug
	Pollock													-	-	-	Mar-Jun	-
	Red hake													Jun-Sep	Jun-Sep	Jul-Oct	Jan-Dec	Jan-Dec
	Red hake													-	-	-	May-Oct	May-Oct
	Silver hake													May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
	Smooth dogfish													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Mar-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Jan-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Mar-Nov	Mar-Nov
	Marine Pelagic Winter skate													-	-	-	Sep-May	Sep-Nov
	Atlantic mackerel													-	-	-	Nov-Apr	-
	Atlantic mackerel													-	-	-	Nov-Apr*	Nov-Apr*
	Bluefin tuna													-	-	-	Jun-Sep	-
	Butterfish													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec
	Dusky shark													-	-	-	May-Sep	May-Sep
	Sandbar shark													-	-	-	Jun-Oct	Jun-Oct





FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Shortfin mako													-	-	-	May-Oct	May-Oct
	Skipjack tuna													-	-	-	Jun-Sep	Jun-Sep
	Spiny dogfish													-	-	-	Oct-Apr	Oct-Apr
	Thresher shark													-	-	-	May-Nov	May-Nov
	Tiger shark													-	-	-	Jul-Oct	-

REPTILES & AMPHIBIANS

Subelement	Species	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Turtle	N. diamondback terrapin													-	-	-	Apr-Nov	Apr-Nov

INVERTEBRATES

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Bivalve	Atlantic surfclam													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
 Cephalopod	Longfin squid													-	-	-	-	Jan-Dec
 Crab	Blue crab													-	-	Jun-Oct	-	Aug-Mar
	Blue crab													May-Oct	Jun-Oct	Jun-Oct	Jan-Dec	Jan-Dec
	Horseshoe crab													-	-	-	Aug-Mar	Aug-Mar
	Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
 Lobster	American lobster													-	-	-	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													-	-	-	-
	Harbor porpoise													-	-	-	-















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	3,116.22	4.87
	10B	Freshwater Marshes	114.02	0.18
	10C	Swamps	46.49	0.07
	10D	Scrub and Shrub Wetlands	56.41	0.09
	9A	Sheltered Tidal Flats	2,140.96	3.35
	7	Exposed Tidal Flats	325.86	0.51

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	190,906.27	118.62	28%
	10B	Freshwater Marshes	200.37	0.12	< 1%
	10D	Scrub and Shrub Wetlands	135.03	0.08	< 1%
	9A	Sheltered Tidal Flats	157,120.39	97.63	23%
	9B	Vegetated Low Banks	200,681.95	124.70	29%
	8B	Sheltered, Solid Man-Made Structures	82,771.87	51.43	12%
	8C	Sheltered Riprap	2,549.64	1.58	< 1%
	7	Exposed Tidal Flats	14,638.74	9.10	2%
	6B	Riprap	3,998.68	2.48	1%
	5	Mixed Sand and Gravel Beaches	314.02	0.20	< 1%
	4	Coarse Grained Sand Beaches	10,458.88	6.50	2%
	3A	Fine to Medium Grained Sand Beaches	17,830.32	11.08	3%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	170.87	0.11	< 1%
	1B	Exposed, Solid Man-Made Structures	4,380.60	2.72	1%

Total ESI Shoreline:	686,157.64	Total ESI Shoreline:	426.36
Total Shoreline:	315,953.60	Total Shoreline:	196.32

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

