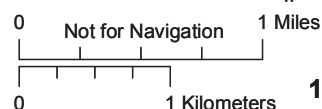


Map 25C  
NY/ NJ Metropolitan Area



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



1:50,000



**Map 25C**  
**New York and New Jersey Metropolitan Area**

**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	S	F	Concentration	Monthly Presence												Nest	Mig.(S)	Mig.(F)	Molt
							J	F	M	A	M	J	J	A	S	O	N	D				
290	Raptor	Threatened raptor	Nesting	-/T		1 Pair													Apr-Jul	-	-	-
292	Diving	D. crested cormorant	Wintering			High													-	-	-	-
	Diving	Great cormorant	Wintering			High													-	-	-	-
	Diving	Horned grebe	Migration			High													-	-	Oct-Nov	-
	Diving	Red-throated loon	Migration			High													-	-	Oct-Nov	-
	Waterfowl	Waterfowl	Wintering			High													-	-	-	-
300	Wading	Least bittern	Nesting	T/C		-													Apr-Sep	-	-	-
333	Shorebird	Shorebirds	Migration			High													-	Mar-May	Aug-Oct	-
350	Waterfowl	Brant	Wintering			1000S													-	-	-	-
	Waterfowl	Canada goose	Wintering			1000S													-	-	-	-
	Waterfowl	Common merganser	Wintering			1000S													-	-	-	-
	Waterfowl	Ruddy duck	Wintering			1000S													-	-	-	-
	Waterfowl	Scaup	Wintering			1000S													-	-	-	-
	Waterfowl	Waterfowl	Wintering			100S													-	-	-	-
351	Waterfowl	American black duck	Wintering			1000S													-	-	-	-
	Waterfowl	Brant	Wintering			1000S													-	-	-	-
	Waterfowl	Long-tailed duck	Wintering			100S													-	-	-	-
	Waterfowl	Mallard	Wintering			100S													-	-	-	-
352	Waterfowl	Brant	Wintering			-													-	-	-	-
	Waterfowl	Bufflehead	Wintering			-													-	-	-	-
	Waterfowl	Canada goose	Wintering			-													-	-	-	-
	Waterfowl	Common merganser	Wintering			-													-	-	-	-
	Waterfowl	Ruddy duck	Wintering			-													-	-	-	-
	Waterfowl	Scaup	Wintering			-													-	-	-	-
	Waterfowl	Waterfowl	Wintering			-													-	-	-	-
353	Wading	BC night-heron	Concentration Area	-/T		2													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		1													-	-	-	-
	Wading	Great egret	Concentration Area			3													-	-	-	-
	Wading	Green heron	Concentration Area			3													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C		1													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		2													-	-	-	-
	Wading	Tricolored heron	Concentration Area	-/C		1													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		2													-	-	-	-
354	Shorebird	Shorebirds	Migration			High													-	Mar-May	Aug-Oct	-
	Wading	BC night-heron	Concentration Area	-/T		3													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		6													-	-	-	-
	Wading	Great egret	Concentration Area			5													-	-	-	-

**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				
355	Wading	Green heron	Concentration Area			2													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C		1													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		5													-	-	-	-
	Wading	BC night-heron	Concentration Area	-/T		40													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		6													-	-	-	-
	Wading	Great egret	Concentration Area			7													-	-	-	-
	Wading	Green heron	Concentration Area			2													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C		2													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		4													-	-	-	-
356	Wading	YC night-heron	Concentration Area	-/T		11													-	-	-	-
	Shorebird	Shorebirds	Migration			High													-	Mar-May	Aug-Oct	-
	Wading	BC night-heron	Concentration Area	-/T		3													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		4													-	-	-	-
	Wading	Great egret	Concentration Area			6													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C		2													-	-	-	-
357	Wading	Snowy egret	Concentration Area	-/C		6													-	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		-													May-Sep	-	-	-
358	Shorebird	Piping plover	Nesting	E/E	T	-													Apr-Aug	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		-													May-Sep	-	-	-
	Shorebird	American oystercatcher	Nesting	-/C		-													Apr-Aug	-	-	-
	Shorebird	Piping plover	Nesting	E/E	T	-													Apr-Aug	-	-	-
359	Shorebird	Red knot	Migration	-/E	T	-													-	May	Sep	-
360	Shorebird	American oystercatcher	Nesting	-/C		-													Apr-Aug	-	-	-
361	Gull/Tern	Black skimmer	Nesting	C/E		-													Apr-Aug	-	-	-

**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					
515	Diadromous	Alewife	Migration			-													-	-	-	-	Mar-Jun
	Diadromous	Blueback herring	Migration			-													-	-	-	-	Mar-Jun

**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		-													-	-	-	-	-
525	Plant	Rare plant	Vulnerable Occurrence	C/C		-													-	-	-	-	-
526	Wetland	Seabeach amaranth	Vulnerable Occurrence	T/E	T	-													-	-	-	-	-
535	Wetland	Maritime holly forest	Vulnerable Occurrence			-													-	-	-	-	-
539	Upland	Coastal dune woodland	Vulnerable Occurrence			-													-	-	-	-	-

# 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					
550	Turtle	Common snapping turtle	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
553	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		Thermal Regulation													-	-	-	-	Jul-Sep
563	Turtle	Eastern box turtle	Nesting	C/C		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
564	Turtle	Eastern box turtle	General Distribution	C/C		Present And Active													-	-	-	Apr-Nov	Apr-Nov
565	Turtle	Spotted turtle	Nesting	C/C		-													Jun-Jul	Mar-Nov*	-	-	Jun-Jul
568	Amphibian	Fowler's toad	Nesting	-/C		-													Apr-Jun	May-Jul	-	-	Apr-Jun
569	Turtle	Spotted turtle	General Distribution	C/C		Present And Active													-	-	-	Mar-Nov	Mar-Nov
571	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		Thermal Regulation													-	-	-	-	Jul-Sep
	Turtle	Spotted turtle	General Distribution	C/C		Present And Active													-	-	-	Mar-Nov	Mar-Nov
575	Turtle	N. diamondback terrapin	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
603	Turtle	Eastern box turtle	Vulnerable Occurrence	C/C		-													-	-	-	Apr-Nov	Apr-Nov
612	Snake	Rare snake	Nesting	C/C		-													Jun-Jul	Aug-Sep	-	-	Jun-Jul
	Turtle	Eastern box turtle	General Distribution	C/C		Present And Active													-	-	-	Apr-Nov	Apr-Nov
	Turtle	Eastern box turtle	Nesting	C/C		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
613	Snake	Rare snake	Nesting	C/C		-													Jun-Jul	Aug-Sep	-	-	Jun-Jul
	Turtle	Eastern box turtle	General Distribution	C/C		Present And Active													-	-	-	Apr-Nov	Apr-Nov
	Turtle	Eastern box turtle	Nesting	C/C		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
	Turtle	N. diamondback terrapin	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
614	Snake	Rare snake	Nesting	C/C		-													Jun-Jul	Aug-Sep	-	-	Jun-Jul
	Turtle	Eastern box turtle	General Distribution	C/C		Present And Active													-	-	-	Apr-Nov	Apr-Nov
	Turtle	Eastern box turtle	Nesting	C/C		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
	Turtle	N. diamondback terrapin	Nesting			High													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
615	Snake	Rare snake	Nesting	C/C		-													Jun-Jul	Aug-Sep	-	-	Jun-Jul
616	Turtle	Eastern mud turtle	Nesting	E/-		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
	Turtle	Painted turtle	Nesting			-													Jun-Jul	Aug-Sep	-	-	Jun-Jul
617	Turtle	Common snapping turtle	Nesting			-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
	Turtle	Eastern mud turtle	Nesting	E/-		-													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
	Turtle	Painted turtle	Nesting			-													Jun-Jul	Aug-Sep	-	-	Jun-Jul
	Turtle	Spotted turtle	Nesting	C/C		-													Jun-Jul	Mar-Nov*	-	-	Jun-Jul
618	Turtle	N. diamondback terrapin	Nesting			High													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					
625	Insect	Monarch butterfly	Migration			High													-	-	-	-	Aug-Oct
641	Crab	Horseshoe crab	Spawning Area			High													May-Jun	May-Jul	-	-	May-Jun
669	Bivalve	Softshell clam	Concentration Area			Historic													May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
671	Insect	H. necked tiger beetle	Vulnerable Occurrence			-													Apr-Jun	Apr-Jun	Jan-Dec	-	Jan-Dec
	Insect	NE beach tiger beetle	Vulnerable Occurrence	-/E	T	-													-	-	Jan-Dec	Jan-Dec	Jan-Dec

## MARINE MAMMALS


Map ID	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				
688	Pinniped	Seals	Concentration Area			High	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
690	Pinniped	Gray seal	Haul Out			Few	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
	Pinniped	Harbor seal	Haul Out			80	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
	Pinniped	Harp seal	Haul Out			Few	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
691	Pinniped	Gray seal	Haul Out			Few	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
	Pinniped	Harbor seal	Haul Out			10	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
	Pinniped	Harp seal	Haul Out			Few	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
692	Pinniped	Gray seal	Haul Out			Occassional	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
	Pinniped	Harbor seal	Haul Out			Occassional	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	
	Pinniped	Harp seal	Haul Out			Occassional	<div></div>	<div></div>	<div></div>	<div></div>				<div></div>	<div></div>	<div></div>	-	-	-	-	-	

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				
	Gull/Tern	Common tern	General Distribution	T/C		Present													-	-	-	-
	Waterfowl	American black duck	Wintering			100S													-	-	-	-
		Brant	Wintering			100S													-	-	-	-
		Bufflehead	Wintering			100S													-	-	-	-
		Canada goose	Wintering			100S													-	-	-	-
		Canvasback	Wintering			100S													-	-	-	-
		Red-breasted merganser	Wintering			100S													-	-	-	-
		Scaup	Wintering			10000S													-	-	-	-


## 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	Concentration Area	-/E	E	High													-	-	-	May-Nov*	-
		Atlantic sturgeon	General Distribution	-/E	E	Rare													-	-	-	Jan-Dec	Jan-Dec
		Atlantic sturgeon	General Distribution	-/E	E	Low													-	-	-	Jan-Dec	Oct-Jun
		Atlantic sturgeon	General Distribution	-/E	E	Medium													-	-	-	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	Northern quahog	Concentration Area			Historic													Jun-Sep	Jun-Sep	Jun-Sep	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													-	-	-	-

## 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													-	-	-	-
	Gull/Tern	Bonaparte's gull													-	-	-	-
		G. black-backed gull													-	-	-	-
		Herring gull													-	-	-	-
		Laughing gull													-	-	-	-
	Pelagic	Northern gannet													-	-	-	-
	Waterfowl	Black scoter													-	-	-	-
		Common eider													-	-	-	-
		Long-tailed duck													-	-	-	-
		Surf scoter													-	-	-	-
		Waterfowl													-	-	-	-
		White-winged scoter													-	-	-	-


## FISH

	Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
			J	F	M	A	M	J	J	A	S	O	N	D					
	Diadromous	Alewife													-	-	-	Jan-Dec	Feb-Jun
		Alewife													-	-	-	Nov-Apr	Nov-Apr
		Alewife													-	-	Jun-Jul	Apr-Nov	Mar-Jun
		American eel													-	-	Jan-Feb	-	Sep-Dec
		American eel													-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American shad													-	-	-	Nov-Apr	Nov-Apr
		American shad													-	-	-	Apr-Jun	Apr-May
		Blueback herring													-	-	-	May-Nov	Mar-Jul
		Blueback herring													-	-	May-Jun	May-Nov	Mar-Jul
		Blueback herring													-	-	-	Nov-Apr	Nov-Apr
		Striped bass													-	-	-	Mar-Nov	Mar-Nov
		Striped bass													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	Atlantic croaker													-	-	Sep-Nov	Jul-Nov	Jul-Nov
		Atlantic croaker													-	-	-	-	Jun-Dec

FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Atlantic herring													-	-	-	Nov-May	Nov-May
	Atlantic herring													-	-	Apr-May	Jan-May	Jan-May
	Atlantic menhaden													-	-	Apr-Jul	Apr-Nov	May-Nov
	Atlantic menhaden													Sep-Dec	Sep-Dec	Oct-Dec	Oct-Apr	Oct-Apr
	Atlantic menhaden													May-Oct*	May-Oct*	May-Oct*	Apr-Nov	Apr-Nov
	Bay anchovy													May-Nov	May-Nov	May-Dec	Jan-Dec	Jan-Dec
	Bay anchovy													May-Aug	May-Aug	Jun-Sep	Jul-Mar	Jan-Dec
	Bay anchovy													May-Aug	May-Aug	May-Aug	Jul-Dec	May-Nov
	Black drum													-	-	-	Jul-Nov	Jul-Nov
	Black drum													-	-	-	-	Mar-Oct
	Black sea bass													-	-	-	Apr-Nov	Apr-Nov
	Black sea bass													May-Oct	May-Oct	May-Nov	Mar-Nov	Mar-Nov
	Bluefish													-	-	-	May-Oct	May-Oct
	Bluefish													-	-	-	May-Nov	May-Nov
	Northern kingfish													-	-	-	Jun-Oct	Jun-Oct
	Northern kingfish													-	-	-	Jun-Nov	Jun-Nov
	Northern kingfish													-	-	-	May-Nov	May-Nov
	Northern puffer													May-Aug	Jun-Oct	Jun-Oct	May-Oct	May-Oct
	Scup													-	-	-	Apr-Dec	Apr-Dec
	Scup													-	-	-	Jun-Oct	Jun-Oct
	Scup													Jul	Jul	Jul	Jun-Oct	Jun-Oct
	Spot													-	-	-	Jun-Nov	Jun-Nov
	Spot													-	-	-	Sep-Nov	Jun-Nov
	Summer flounder													Sep-Nov	Sep-Nov	Sep-Dec	Apr-Nov	Apr-Nov
	Summer flounder													-	-	-	May-Oct	May-Oct
	Weakfish													Jun-Aug	Jun-Aug	Jun-Aug	Jun-Nov	May-Dec
	Weakfish													Apr-Sep	Apr-Sep	May-Sep	Apr-Nov	Apr-Nov
	White perch													-	-	-	Jan-Dec	Jan-Dec
	White perch													May-Jun	May-Jun	May-Jun	Jan-Dec	Jan-Dec
	Windowpane													-	-	Apr-Nov	Jan-Dec	Jan-Dec
	Windowpane													Mar-Nov*	Mar-Nov*	Apr-Nov*	Jan-Dec	Jan-Dec
	Windowpane													Apr-Jul	Apr-Jul	Apr-Oct	Jan-Dec	Jan-Dec
	Winter flounder													Nov-Apr	Nov-Apr	Nov-May	Jan-Dec	Oct-Jun
	Winter flounder													-	-	-	Jan-Dec	Jan-Dec
 Estuarine Resident	Atlantic silverside													-	-	-	Jan-Apr	Jan-Apr
	Killifish													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Northern pipefish													May-Jul	-	May-Aug	Apr-Dec	Apr-Dec
	Silversides													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
 Marine Benthic	American sand lance													-	-	-	-	Oct-Jun
	American sand lance													Nov-Apr	Nov-Apr	Nov-Apr	Nov-Apr	Nov-Apr
	American sand lance													-	-	Nov-Apr	Nov-Apr	Nov-Apr
	Atlantic cod													-	-	-	Nov-Apr	Nov-Apr
	Atlantic cod													-	-	-	Nov-Apr	-
	Atlantic tomcod													-	-	-	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					
	Atlantic tomcod													Dec-Feb	Dec-Mar	Jan-Aug	Jan-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													-	-	-	Nov-May	Nov-May
	Silver hake													May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
	Smooth dogfish													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Tautog													-	Jun	Jun	Apr-Dec	Apr-Nov
	Tautog													May-Aug	May-Aug	Jun-Aug	Mar-Nov	Mar-Nov
	Tautog													May	May	May	Jan-Dec	Apr-Nov
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Jan-Dec
	Winter skate													-	-	-	Sep-May	Sep-Nov
 Marine Pelagic	Atlantic mackerel													-	-	-	Nov-Apr*	Nov-Apr*
	Atlantic mackerel													-	-	-	Apr-Nov*	Apr-Nov*
	Bluefin tuna													-	-	-	Jun-Sep	-
	Butterfish													-	-	-	Apr-Nov	Apr-Nov
	Butterfish													May-Aug	May-Aug	May-Oct	May-Dec	May-Dec
	Dusky shark													-	-	-	May-Sep	May-Sep
	Sand tiger													-	-	-	Jun-Oct	-
	Sandbar shark													-	-	-	Jun-Oct	Jun-Oct
	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

	<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	Atlantic surfclam													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec
		Blue mussel													Apr-Nov	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec
		Northern quahog													Jun-Sep	Jun-Sep	Jun-Sep	Jan-Dec	Jan-Dec
		Softshell clam													May-Oct	May-Oct	May-Oct	Jan-Dec	Jan-Dec
	Cephalopod	Longfin squid													-	-	-	-	Jan-Dec
	Crab	Blue crab													May-Oct	Jun-Oct	Jun-Oct	Jan-Dec	Jan-Dec
		Blue crab													May-Oct	-	-	Jan-Dec	Jan-Dec
		Blue crab													-	-	Jun-Oct	-	Aug-Mar
		Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
		Horseshoe crab													-	-	-	Aug-Mar	Aug-Mar
	Lobster	American lobster													-	-	-	Jan-Dec	Jan-Dec
		American lobster													Jun-Sep	Jun-Sep	Jun-Oct	Jan-Dec	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													-	-	-	-
		Harbor porpoise													-	-	-	-




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

	<i>ESI Rank</i>	<i>Habitat Classification</i>	<i>Area (Acres)</i>	<i>Area (Sq. Miles)</i>
	10A	Salt and Brackish Water Marshes	54.20	0.08
	10B	Freshwater Marshes	0.89	0.00
	10C	Swamps	256.72	0.40
	10D	Scrub and Shrub Wetlands	80.28	0.13
	9A	Sheltered Tidal Flats	20.08	0.03
	7	Exposed Tidal Flats	49.38	0.08

### 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	5,152.37	3.20	7%
	10C	Swamps	290.79	0.18	< 1%
	9A	Sheltered Tidal Flats	3,232.64	2.01	5%
	9B	Vegetated Low Banks	5,259.79	3.27	7%
	8B	Sheltered, Solid Man-Made Structures	5,029.34	3.13	7%
	8C	Sheltered Riprap	301.00	0.19	< 1%
	7	Exposed Tidal Flats	4,886.36	3.04	7%
	6B	Riprap	6,933.38	4.31	10%
	5	Mixed Sand and Gravel Beaches	41.08	0.03	< 1%
	4	Coarse Grained Sand Beaches	3,771.55	2.34	5%
	3A	Fine to Medium Grained Sand Beaches	32,125.74	19.96	45%
	1B	Exposed, Solid Man-Made Structures	4,722.83	2.93	7%

Total ESI Shoreline:	71,746.88	Total ESI Shoreline:	44.58
Total Shoreline:	51,813.94	Total Shoreline:	32.20

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)

