



**Map 25A**  
**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				
181	Waterfowl	Black scoter	Concentration Area			High													-	-	-	-
184	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	-
	Shorebird	Sanderling	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		100S													-	Apr-May	Aug-Sep	-
189	Wading	BC night-heron	Concentration Area	-/T		3													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		4													-	-	-	-
	Wading	Great egret	Concentration Area			13													-	-	-	-
	Wading	Green heron	Concentration Area			2													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C		3													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		11													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		4													-	-	-	-
192	Waterfowl	American black duck	Wintering			1000S													-	-	-	-
	Waterfowl	Brant	Wintering			1000S													-	-	-	-
	Waterfowl	Bufflehead	Wintering			1000S													-	-	-	-
	Waterfowl	Canada goose	Wintering			1000S													-	-	-	-
	Waterfowl	Long-tailed duck	Wintering			100S													-	-	-	-
	Waterfowl	Ruddy duck	Wintering			1000S													-	-	-	-
	Waterfowl	Scaup	Wintering			1000S													-	-	-	-
	Waterfowl	Snow goose	Wintering			1000S													-	-	-	-
	Waterfowl	Waterfowl	Wintering			1000S													-	-	-	-
195	Gull/Tern	Black skimmer	Nesting	C/E		100-500 Pairs													Apr-Aug	-	-	-
	Gull/Tern	Common tern	Nesting	T/C		1000-2000 Pairs													May-Sep	-	-	-
	Gull/Tern	Least tern	Nesting	T/E		300-400 Pairs													May-Sep	-	-	-
	Gull/Tern	Roseate tern	Migration	E/E	E	1S													-	May	Aug-Sep	-
	Shorebird	American oystercatcher	Migration	-/C		100S													-	-	Aug-Sep	-
	Shorebird	American oystercatcher	Nesting	-/C		10-25 Pairs													Apr-Aug	-	-	-
	Shorebird	Piping plover	Migration	E/E	T	1S													-	-	Aug-Sep	-
	Shorebird	Piping plover	Nesting	E/E	T	10-25 Pairs													Apr-Aug	-	-	-
	Shorebird	Red knot	Migration	-/E	T	1S													-	Apr-May	Jul-Sep	-
	Shorebird	Sanderling	Migration	-/C		1000S													-	Apr-May	Aug-Sep	-
	Shorebird	Semipalmated sandpiper	Migration	-/C		10S													-	Apr-May	Aug-Sep	-
346	Gull/Tern	Black skimmer	Migration	C/E		100S													-	May	Aug-Oct	-
	Shorebird	American oystercatcher	Migration	-/C		1S													-	-	Aug-Sep	-
347	Gull/Tern	Black skimmer	Migration	C/E		100S													-	May	Aug-Oct	-

## 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					
414	Diadromous	Atlantic sturgeon	Concentration Area	-/E	E	High													-	-	-	May-Nov*	-
514	Diadromous	Atlantic sturgeon	General Distribution	-/E	E	Medium													-	-	-	Jan-Dec	Oct-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					
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					
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
572	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
578	Turtle	N. diamondback terrapin	Nesting			50-100													Jun-Jul	Apr-Nov*	-	-	Jun-Jul
611	Turtle	Common snapping turtle	Nesting			-													Jun-Jul	Apr-Nov*	-	-	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

## 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					
626	Invertebrate	R, LT, or LE invertebrate	Vulnerable Occurrence			-													Apr-Jun	Apr-Jun	Jan-Dec	-	Jan-Dec
641	Crab	Horseshoe crab	Spawning Area			High													May-Jun	May-Jul	-	-	May-Jun
666	Bivalve	Blue mussel	Concentration Area			Historic													Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec
670	Bivalve	Atlantic surfclam	Concentration Area			Historic													Jun-Oct*	Jun-Oct*	Jun-Oct*	Jan-Dec	Jan-Dec

## 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				
	Diving	D. crested cormorant	Wintering			High													-	-	-	-
		Great cormorant	Wintering			High													-	-	-	-
		Horned grebe	Migration			High													-	-	Oct-Nov	-
		Red-throated loon	Migration			High													-	-	Oct-Nov	-
	Gull/Tern	Common tern	General Distribution	T/C		Present													-	-	-	-
	Waterfowl	Waterfowl	Wintering			High													-	-	-	-


## 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	Rare												-	-	-	Jan-Dec	Jan-Dec
		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

## MARINE MAMMALS


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	
	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													-	-	-	-
	Gull/Tern													-	-	-	-
	Bonaparte's gull													-	-	-	-
	G. black-backed gull													-	-	-	-
	Herring gull													-	-	-	-
	Pelagic													-	-	-	-
	Northern gannet													-	-	-	-
	Black scoter													-	-	-	-
	Common eider													-	-	-	-
	Long-tailed duck													-	-	-	-
	Surf scoter													-	-	-	-
	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
		American eel												-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American eel												-	-	Jan-Feb	-	Sep-Dec
		American shad												-	-	-	Apr-Jun	Apr-May
		American shad												-	-	-	Nov-Apr	Nov-Apr





**FISH (continued)**

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
 Estuarine Nursery	Blueback herring													-	-	-	Nov-Apr	Nov-Apr
	Blueback herring													-	-	-	May-Nov	Mar-Jul
	Striped bass													-	-	-	Mar-Nov	Mar-Nov
	Striped bass													-	-	-	Jan-Dec	Jan-Dec
	Atlantic croaker													-	-	-	-	Jun-Dec
	Atlantic croaker													-	-	Sep-Nov	Jul-Nov	Jul-Nov
	Atlantic herring													-	-	-	Nov-May	Nov-May
	Atlantic herring													-	-	Apr-May	Jan-May	Jan-May
	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
	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-Nov	Jun-Nov
	Northern kingfish													-	-	-	May-Nov	May-Nov
	Northern puffer													May-Aug	Jun-Oct	Jun-Oct	May-Oct	May-Oct
	Scup													Jul	Jul	Jul	Jun-Oct	Jun-Oct
	Scup													-	-	-	Apr-Dec	Apr-Dec
	Spot													-	-	-	Jun-Nov	Jun-Nov
	Spot													-	-	-	Sep-Nov	Jun-Nov
	Summer flounder													-	-	-	May-Oct	May-Oct
	Summer flounder													Sep-Nov	Sep-Nov	Sep-Dec	Apr-Nov	Apr-Nov
	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
	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
 Marine Benthic	Silversides													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	American sand lance													Nov-Apr	Nov-Apr	Nov-Apr	Nov-Apr	Nov-Apr
	American sand lance													-	-	-	-	Oct-Jun
	Atlantic cod													-	-	-	Nov-Apr	Nov-Apr
	Atlantic cod													-	-	-	Nov-Apr	-
	Atlantic tomcod													-	-	-	Jan-Dec	Jan-Dec
	Cleomose skate													-	-	-	Apr-Nov	Apr-Nov

**FISH (continued)**

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	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													May	May	May	Jan-Dec	Apr-Nov
	Tautog													May-Aug	May-Aug	Jun-Aug	Jan-Dec	Jan-Dec
	Tautog													May-Aug	May-Aug	Jun-Aug	Mar-Nov	Mar-Nov
	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	-

## 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	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													-	-	Jun-Oct	-	Aug-Mar
		Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
	Lobster	Horseshoe crab													-	-	-	Aug-Mar	Aug-Mar
		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	6.04	0.01
	10B	Freshwater Marshes	14.78	0.02
	10D	Scrub and Shrub Wetlands	0.48	0.00
	9A	Sheltered Tidal Flats	19.07	0.03
	7	Exposed Tidal Flats	157.81	0.25

### 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	826.64	0.51	1%
	9A	Sheltered Tidal Flats	1,840.52	1.14	3%
	9B	Vegetated Low Banks	5,308.63	3.30	9%
	8B	Sheltered, Solid Man-Made Structures	6,876.87	4.27	12%
	8C	Sheltered Riprap	2,414.30	1.50	4%
	7	Exposed Tidal Flats	7,079.93	4.40	13%
	6B	Riprap	7,227.57	4.49	13%
	5	Mixed Sand and Gravel Beaches	14.29	0.01	< 1%
	4	Coarse Grained Sand Beaches	1,980.29	1.23	4%
	3A	Fine to Medium Grained Sand Beaches	11,517.57	7.16	21%
	1B	Exposed, Solid Man-Made Structures	10,920.30	6.79	19%

Total ESI Shoreline:	56,006.91	Total ESI Shoreline:	34.80
Total Shoreline:	41,379.15	Total Shoreline:	25.71

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](https://response.restoration.noaa.gov)

