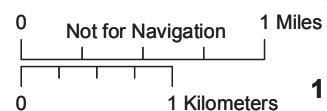


Map 24C
NY/ NJ Metropolitan Area



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 24C
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				
268	Gull/Tern	Least tern	Nesting	T/E	-	-													May-Sep	-	-	-
269	Wading	YC night-heron	Nesting	-/T	-	-													Apr-Aug	-	-	-
290	Raptor	Threatened raptor	Nesting	-/T	1 Pair	-													Apr-Jul	-	-	-
325	Wading	BC night-heron	Concentration Area	-/T	2	-													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C	10	-													-	-	-	-
	Wading	Great egret	Concentration Area	-	27	-													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C	19	-													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T	3	-													-	-	-	-
	Waterfowl	Red-breasted merganser	Wintering	-	100S	-													-	-	-	-
326	Wading	BC night-heron	Concentration Area	-/T	3	-													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C	3	-													-	-	-	-
	Wading	Great egret	Concentration Area	-	16	-													-	-	-	-
	Wading	Green heron	Concentration Area	-	1	-													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C	1	-													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C	9	-													-	-	-	-
	Wading	Tricolored heron	Concentration Area	-/C	2	-													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T	5	-													-	-	-	-
	Waterfowl	Red-breasted merganser	Wintering	-	100S	-													-	-	-	-
327	Wading	BC night-heron	Concentration Area	-/T	2	-													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C	3	-													-	-	-	-
	Wading	Great egret	Concentration Area	-	23	-													-	-	-	-
	Wading	Green heron	Concentration Area	-	1	-													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C	4	-													-	-	-	-
	Wading	Tricolored heron	Concentration Area	-/C	2	-													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T	5	-													-	-	-	-
	Waterfowl	Red-breasted merganser	Wintering	-	100S	-													-	-	-	-
328	Wading	BC night-heron	Concentration Area	-/T	2	-													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C	3	-													-	-	-	-
	Wading	Great egret	Concentration Area	-	16	-													-	-	-	-
	Wading	Green heron	Concentration Area	-	1	-													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C	1	-													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C	2	-													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T	1	-													-	-	-	-
329	Wading	BC night-heron	Concentration Area	-/T	6	-													-	-	-	-
	Wading	Glossy ibis	Concentration Area	-/C	4	-													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C	3	-													-	-	-	-
	Wading	Great egret	Concentration Area	-	7	-													-	-	-	-

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				
330	Wading	Green heron	Concentration Area			1													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		4													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		4													-	-	-	-
	Wading	BC night-heron	Concentration Area	-/T		3													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		6													-	-	-	-
	Wading	Great egret	Concentration Area			17													-	-	-	-
	Wading	Green heron	Concentration Area			3													-	-	-	-
331	Wading	Snowy egret	Concentration Area	-/C		28													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		1													-	-	-	-
	Wading	BC night-heron	Concentration Area	-/T		5													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		2													-	-	-	-
	Wading	Great egret	Concentration Area			6													-	-	-	-
	Wading	Green heron	Concentration Area			1													-	-	-	-
	Wading	Little blue heron	Concentration Area	-/C		1													-	-	-	-
332	Wading	Snowy egret	Concentration Area	-/C		1													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		2													-	-	-	-
	Wading	BC night-heron	Nesting	-/T		-													Mar-Jul	-	-	-
333	Shorebird	Shorebirds	Migration			High													-	Mar-May	Aug-Oct	-
334	Bird	Colonial waterbirds	Roosting			-													-	-	-	-
	Wading	Great egret	Roosting			50													-	-	-	-

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					
513	Diadromous	Alewife	Migration			-													-	-	-	-	Mar-Jun
	Diadromous	American shad	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					
525	Plant	Rare plant	Vulnerable Occurrence	C/C		-													-	-	-	-	-
536	Wetland	Vernal pool	Vulnerable Occurrence			-													-	-	-	-	-

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					
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
667	Crab	Horseshoe crab	Spawning Area			Low													May-Jun	May-Jul	-	-	May-Jun

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	-
	Waterfowl	American black duck	Wintering		1000S													-	-	-	-
		Brant	Wintering		1000S													-	-	-	-
		Bufflehead	Wintering		100S													-	-	-	-
		Canada goose	Wintering		100S													-	-	-	-
		Long-tailed duck	Wintering		100S													-	-	-	-
		Mallard	Wintering		100S													-	-	-	-
		Scaup	Wintering		10000S													-	-	-	-
		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


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
		Softshell clam	Concentration Area		Historic													May-Oct	May-Oct	May-Oct	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	Humpback whale	General Distribution	E/E	E	Common												-	-	-	-

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				
 Waterfowl	Waterfowl													-	-	-	-

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
	American eel													-	-	Apr-Aug	Jan-Dec	Sep-Nov
	American eel													-	-	-	Jan-Dec	Sep-Nov
	American shad													-	-	-	Apr-Jun	Apr-May
	Blueback herring													-	-	-	May-Nov	Mar-Jul
 Estuarine Nursery	Striped bass													-	-	-	Jan-Dec	Jan-Dec
	Atlantic croaker													-	-	Sep-Nov	Jul-Nov	Jul-Nov
	Atlantic herring													-	-	Apr-May	Jan-May	Jan-May
	Atlantic menhaden													May-Oct*	May-Oct*	May-Oct*	Apr-Nov	Apr-Nov
	Bay anchovy													May-Aug	May-Aug	Jun-Sep	Jul-Mar	Jan-Dec
	Black drum													-	-	-	Jul-Nov	Jul-Nov
	Black sea bass													-	-	-	Apr-Nov	Apr-Nov
	Bluefish													-	-	-	May-Oct	May-Oct
	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
	Spot													-	-	-	Jun-Nov	Jun-Nov
	Summer flounder													-	-	-	May-Oct	May-Oct
	Weakfish													Jun-Aug	Jun-Aug	Jun-Aug	Jun-Nov	May-Dec
	White perch													-	-	-	Jan-Dec	Jan-Dec
 Estuarine Resident	Windowpane													Apr-Jul	Apr-Jul	Apr-Oct	Jan-Dec	Jan-Dec
	Winter flounder													Nov-Apr	Nov-Apr	Nov-May	Jan-Dec	Oct-Jun
	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
	Atlantic cod													-	-	-	Nov-Apr	-
	Atlantic tomcod													-	-	-	Jan-Dec	Jan-Dec
	Pollock													-	-	-	Mar-Jun	-
 Marine Pelagic	Red hake													-	-	-	Nov-May	Nov-May
	Smooth dogfish													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Tautog													May	May	May	Jan-Dec	Apr-Nov
	Atlantic mackerel													-	-	-	Apr-Nov*	Apr-Nov*
	Butterfish													-	-	-	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	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
	Crab	Blue crab													May-Oct	Jun-Oct	Jun-Oct	Jan-Dec	Jan-Dec
		Blue crab													May-Oct	-	-	Jan-Dec	Jan-Dec
		Horseshoe crab													-	-	-	Jan-Dec	Jan-Dec
	Lobster	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

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	702.20	1.10
	10B	Freshwater Marshes	144.01	0.23
	10C	Swamps	694.41	1.09
	10D	Scrub and Shrub Wetlands	72.12	0.11
	7	Exposed Tidal Flats	11.28	0.02

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	23,982.53	14.90	33%
	10B	Freshwater Marshes	78.22	0.05	< 1%
	10D	Scrub and Shrub Wetlands	49.73	0.03	< 1%
	9B	Vegetated Low Banks	26,457.06	16.44	37%
	8B	Sheltered, Solid Man-Made Structures	5,472.43	3.40	8%
	8C	Sheltered Riprap	256.48	0.16	< 1%
	7	Exposed Tidal Flats	889.58	0.55	1%
	6B	Riprap	2,494.23	1.55	3%
	5	Mixed Sand and Gravel Beaches	1,245.51	0.77	2%
	4	Coarse Grained Sand Beaches	2,400.13	1.49	3%
	3A	Fine to Medium Grained Sand Beaches	6,117.66	3.80	8%
	1B	Exposed, Solid Man-Made Structures	2,605.52	1.62	4%

Total ESI Shoreline:	72,049.07	Total ESI Shoreline:	44.77
Total Shoreline:	44,713.26	Total Shoreline:	27.78

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

