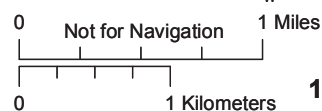


Map 21D

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 21D
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				
129	Raptor	Endangered raptor 1	Nesting	E/E		1 Pair													Mar-Jul	-	-	-
268	Gull/Tern	Least tern	Nesting	T/E		-													May-Sep	-	-	-
277	Wading	BC night-heron	Concentration Area	-/T		3													-	-	-	-
	Wading	Glossy ibis	Concentration Area	-/C		1													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		11													-	-	-	-
	Wading	Great egret	Concentration Area			23													-	-	-	-
	Wading	Green heron	Concentration Area			2													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		18													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		1													-	-	-	-
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													-	-	-	-
293	Gull/Tern	Common tern	Nesting	T/C		100-500 Pairs													May-Sep	-	-	-
	Gull/Tern	G. black-backed gull	Nesting			1-10 Pairs													Apr-Jul	-	-	-
	Gull/Tern	Herring gull	Nesting			1-10 Pairs													Apr-Sep	-	-	-
295	Wading	BC night-heron	Concentration Area	-/T		2													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		7													-	-	-	-
	Wading	Great egret	Concentration Area			10													-	-	-	-
	Wading	Green heron	Concentration Area			4													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		4													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		8													-	-	-	-
296	Wading	BC night-heron	Concentration Area	-/T		10													-	-	-	-
	Wading	Glossy ibis	Concentration Area	-/C		10													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		8													-	-	-	-
	Wading	Great egret	Concentration Area			7													-	-	-	-
	Wading	Green heron	Concentration Area			2													-	-	-	-
297	Wading	BC night-heron	Concentration Area	-/T		35													-	-	-	-
	Wading	Great blue heron	Concentration Area	-/C		32													-	-	-	-
	Wading	Great egret	Concentration Area			31													-	-	-	-
	Wading	Green heron	Concentration Area			6													-	-	-	-
	Wading	Snowy egret	Concentration Area	-/C		11													-	-	-	-
	Wading	YC night-heron	Concentration Area	-/T		3													-	-	-	-
298	Bird	Colonial waterbirds	Roosting			-													-	-	-	-
	Wading	Great egret	Roosting			5													-	-	-	-

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					
506	Freshwater	Bluegill	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Brown bullhead	Harvest Area			High													May-Jun	May-Jun	May-Aug	Jan-Dec	Jan-Dec
	Freshwater	Golden shiner	Harvest Area			-													May-Aug	May-Aug	May-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
507	Freshwater	Bluegill	Harvest Area			-													Apr-Jun	Apr-Jun	Apr-Aug	Jan-Dec	Jan-Dec
	Freshwater	Brown bullhead	Harvest Area			-													May-Jun	May-Jun	May-Aug	Jan-Dec	Jan-Dec
	Freshwater	Golden shiner	Harvest Area			-													May-Aug	May-Aug	May-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
508	Diadromous	Alewife	Nursery Area			-													-	-	Jun-Aug	Aug-Oct	-
	Diadromous	Alewife	Spawning Area			-													Mar-Jun	Mar-Jun	-	-	Mar-Jun
	Diadromous	American shad	Nursery Area			-													-	-	Jun-Aug	Aug-Oct	-
	Diadromous	American shad	Spawning Area			-													Mar-Jun	Mar-Jun	-	-	Mar-Jun
	Diadromous	Blueback herring	Nursery Area			-													-	-	Jun-Aug	Aug-Oct	-
	Diadromous	Blueback herring	Spawning Area			-													Mar-Jun	Mar-Jun	-	-	Mar-Jun

HABITATS & RARE PLANTS

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					
522	Upland	Rare upland community	Vulnerable Occurrence			-													-	-	-	-	-
523	Plant	Threatened plant	Vulnerable Occurrence	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					
583	Turtle	Leatherback sea turtle	General Distribution	E/E	E	-													-	-	-	May-Nov	May-Nov

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				
687	Whale	Humpback whale	General Distribution	E/E	E	Common													-	-	-	-

WIDESPREAD IN MAPPED AREA (> 10 SQUARE KILOMETERS)

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	-
		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					
	Crab	Blue crab	Concentration Area			High													-	-	-	Dec-Mar	Dec-Mar

ALSO PRESENT IN MAPPED AREA (GENERAL DISTRIBUTION)




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													-	-	Jun-Jul	Apr-Nov	Mar-Jun
		American eel													-	-	Apr-Aug	Jan-Dec	Sep-Nov
		American shad													-	-	-	Apr-Jun	Apr-May
		American shad													-	-	-	Jan-Dec	Apr-Aug
		Blueback herring													-	-	May-Jun	May-Nov	Mar-Jul
		Blueback herring													-	-	-	May-Nov	Mar-Jul
		Striped bass													-	-	-	Jan-Dec	Jan-Dec
	Estuarine Nursery	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
		Atlantic menhaden													-	-	Apr-Jul	Apr-Nov	May-Nov
		Bay anchovy													May-Aug	May-Aug	May-Aug	Jul-Dec	May-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													-	-	-	Jun-Oct	Jun-Oct
		Northern kingfish													-	-	-	May-Nov	May-Nov
		Northern puffer													May-Aug	Jun-Oct	Jun-Oct	May-Oct	May-Oct
		Scup													-	-	-	Jun-Oct	Jun-Oct
		Scup													Jul	Jul	Jul	Jun-Oct	Jun-Oct
		Spot													-	-	-	Jun-Nov	Jun-Nov


FISH (continued)

Subelement	Species	Monthly Presence												Spawn	Eggs	Larvae	Juveniles	Adults
		J	F	M	A	M	J	J	A	S	O	N	D					
	Summer flounder													-	-	-	May-Oct	May-Oct
	Weakfish													Jun-Aug	Jun-Aug	Jun-Aug	Jun-Nov	May-Dec
	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													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
	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													-	-	Nov-Apr	Nov-Apr	Nov-Apr
	Atlantic cod													-	-	-	Nov-Apr	-
	Atlantic tomcod													Dec-Feb	Dec-Mar	Jan-Aug	Jan-Dec	Jan-Dec
	Atlantic tomcod													-	-	-	Jan-Dec	Jan-Dec
	Pollock													-	-	-	Mar-Jun	-
	Red hake													-	-	-	Nov-May	Nov-May
	Smooth dogfish													May-Jun	May-Oct	-	Apr-Oct	Apr-Oct
	Tautog													-	Jun	Jun	Apr-Dec	Apr-Nov
	Tautog													May	May	May	Jan-Dec	Apr-Nov
	Atlantic mackerel													-	-	-	Apr-Nov*	Apr-Nov*
	Butterfish													-	-	-	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					
	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
	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
	American lobster													Jun-Sep	Jun-Sep	Jun-Oct	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				
	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	45.18	0.07
	10B	Freshwater Marshes	16.93	0.03
	10C	Swamps	18.70	0.03
	10D	Scrub and Shrub Wetlands	1.24	0.00
	9A	Sheltered Tidal Flats	80.84	0.13
	7	Exposed Tidal Flats	3.46	0.01

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	3,193.76	1.98	3%
	10B	Freshwater Marshes	135.99	0.08	< 1%
	9A	Sheltered Tidal Flats	9,159.40	5.69	9%
	9B	Vegetated Low Banks	3,673.32	2.28	4%
	8B	Sheltered, Solid Man-Made Structures	14,892.73	9.25	14%
	8C	Sheltered Riprap	8,978.57	5.58	9%
	7	Exposed Tidal Flats	276.99	0.17	< 1%
	6A	Gravel Beaches	5,669.09	3.52	5%
	6B	Riprap	19,915.38	12.37	19%
	5	Mixed Sand and Gravel Beaches	3,485.57	2.17	3%
	4	Coarse Grained Sand Beaches	1,284.15	0.80	1%
	3A	Fine to Medium Grained Sand Beaches	1,207.99	0.75	1%
	1B	Exposed, Solid Man-Made Structures	33,074.56	20.55	32%

Total ESI Shoreline:	104,947.50	Total ESI Shoreline:	65.21
Total Shoreline:	72,243.38	Total Shoreline:	44.89

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

