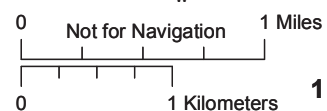


# Map 19C

## Hudson River



**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 19C Hudson River

## BIOLOGICAL RESOURCES

Note: An asterisk (\*) indicates that life stage occurs in this range but not in all months included

### DISPLAYED ON MAP

#### BENTHIC

	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence											
							J	F	M	A	M	J	J	A	S	O	N	D
	SAV	Water celery	High Ecological Value			Present												-
	SAV	Water celery	High Ecological Value			Potential												-

#### 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	-	-	-
197	Raptor	Endangered raptor 2	Nesting	T/E		1 Pair													Mar-Jul	-	-	-
255	Shorebird	Shorebirds	Migration			High													-	Mar-May	-	-
	Wading	Herons	Migration			High													-	Mar-Apr	Sep-Nov	-
	Waterfowl	Waterfowl	Migration			High													-	Mar-Apr	Oct-Nov	-
256	Raptor	Bald eagle	Roosting	T/-		-													-	-	-	-
	Raptor	Northern harrier	Roosting	T/E		-													-	-	-	-
	Raptor	Osprey	Roosting	C/-		-													-	-	-	-
257	Diving	Pied-billed grebe	General Distribution	T/E		-													Apr-Sep	-	-	-
	Wading	Least bittern	General Distribution	T/C		-													Apr-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					
420	Diadromous	Alewife	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	Alewife	Spawning Area			-													Apr-Jun	Apr-Jun	-	-	Apr-Jun
	Diadromous	Blueback herring	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	Blueback herring	Spawning Area			-													Apr-Jun	Apr-Jun	-	-	Apr-Jun
454	Diadromous	Anadromous fish	Concentration Area			High													-	-	-	-	Apr-Jun

#### HABITATS & RARE PLANTS

Map ID	Subelement	Species	Mapping Qualifier	S	F	Concentration	Monthly Presence																
							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		-													-	-	-	-	-
530	Wetland	Rare wetland community	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					
600	Turtle	Wood turtle	Vulnerable Occurrence	C/T		-													-	-	-	Mar-Nov	Mar-Nov

## TERRESTRIAL MAMMALS

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					
698	Small Mammal	Allegheny woodrat	Vulnerable Occurrence	E/E		-													-	-	-	-	-

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	Anadromous fish	Migration			High													-	-	-	-	Mar-Oct*
		Atlantic sturgeon	General Distribution	-/E	E	-													-	-	-	Jan-Dec	Nov-Apr
		Shortnose sturgeon	General Distribution	E/E	E	-													-	-	-	Jan-Dec	Jan-Dec
	Marine Benthic	Atlantic tomcod	Nursery Area			-													-	-	Apr-Jul	Apr-Jul	-

## 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													Aug-Nov	-	-	Jan-Dec	Jan-Dec

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				
	Passerine	Marsh wren													Apr-Aug	-	-	-
		Swamp sparrow													Apr-Sep	-	-	-
	Wading	American woodcock													Mar-Aug	-	-	-
		Green heron													Apr-Sep	-	-	-
	Waterfowl	American black duck													Apr-Aug	-	-	-
		Gadwall													May-Sep	-	-	-
		Mallard													Mar-Sep	-	-	-
		Wood duck													Mar-Sep	-	-	-

## FISH

	<b>Subelement</b>	<b>Species</b>	<b>Monthly Presence</b>												<b>Spawn</b>	<b>Eggs</b>	<b>Larvae</b>	<b>Juveniles</b>	<b>Adults</b>
			<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>					
	Diadromous	Alewife													-	-	May-Jun	Jun-Oct	Apr-Jun
		American eel													-	-	-	Jan-Dec	Sep-Nov
		American shad													-	-	May-Jun	Jun-Oct	Apr-Jun
		Blueback herring													-	-	May-Jun	Jun-Oct	Apr-Jun
		Striped bass													-	-	-	Jul-Oct	Mar-Oct
	Estuarine Nursery	Striped bass													-	-	-	Jan-Dec	Jan-Dec
		Atlantic menhaden													-	-	Apr-Jul	Apr-Nov	May-Nov
		Bay anchovy													May-Aug	May-Aug	May-Aug	Jul-Dec	Apr-Nov
		Bluefish													-	-	-	May-Oct	May-Oct
		Summer flounder													-	-	-	May-Oct	May-Oct
		Weakfish													Jun-Aug	Jun-Aug	Jun-Aug	Jun-Nov	May-Dec
		White perch													May-Jul	May-Jul	May-Jul	Jan-Dec	Jan-Dec
		Windowpane													Apr-Nov	Apr-Nov	Apr-Nov	Jan-Dec	Jan-Dec
	Estuarine Resident	Winter flounder													Nov-Mar	Nov-Mar	Nov-Mar	Jan-Dec	Oct-Jun
		Killifish													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Freshwater	Silversides													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Yellow perch													-	-	Apr-May	Jan-Dec	Jan-Dec
	Marine Benthic	Atlantic tomcod													Dec-Feb	Dec-Mar	Jan-Jul	Jan-Dec	Jan-Dec

## REPTILES & AMPHIBIANS

	<b>Subelement</b>	<b>Species</b>	<b>Monthly Presence</b>												<b>Nest</b>	<b>Hatch</b>	<b>Internest</b>	<b>Juveniles</b>	<b>Adults</b>
			<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>					
	Turtle	Common snapping turtle													-	-	-	Apr-Nov	Apr-Nov
		N. diamondback terrapin													-	-	-	Apr-Nov	Apr-Nov






## INVERTEBRATES

	<b>Subelement</b>	<b>Species</b>	<b>Monthly Presence</b>												<b>Spawn</b>	<b>Eggs</b>	<b>Larvae</b>	<b>Juveniles</b>	<b>Adults</b>
			<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>					
	Crab	Blue crab													Aug-Nov	-	-	Jan-Dec	Jan-Dec














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	240.88	0.38
	10B	Freshwater Marshes	61.09	0.10
	10C	Swamps	279.10	0.44
	10D	Scrub and Shrub Wetlands	32.18	0.05
	7	Exposed Tidal Flats	22.19	0.03

### 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	13,754.42	8.55	18%
	10B	Freshwater Marshes	338.40	0.21	< 1%
	10C	Swamps	36.57	0.02	< 1%
	10D	Scrub and Shrub Wetlands	204.51	0.13	< 1%
	9B	Vegetated Low Banks	21,802.08	13.55	29%
	8B	Sheltered, Solid Man-Made Structures	760.48	0.47	1%
	7	Exposed Tidal Flats	2,939.95	1.83	4%
	6A	Gravel Beaches	1,177.84	0.73	2%
	6B	Riprap	14,857.56	9.23	20%
	5	Mixed Sand and Gravel Beaches	5,492.30	3.41	7%
	4	Coarse Grained Sand Beaches	714.80	0.44	1%
	2A	Exposed, Wave-Cut Platforms (Bedrock/Mud/Clay)	190.61	0.12	< 1%
	1B	Exposed, Solid Man-Made Structures	13,296.34	8.26	18%
Total ESI Shoreline:			75,565.87	Total ESI Shoreline:	46.95
Total Shoreline:			52,771.13	Total Shoreline:	32.79

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)

