



## Map 15B 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				
66	Raptor	Endangered raptor 2	Nesting	T/E		-													Mar-Jul	-	-	-
197	Raptor	Endangered raptor 2	Nesting	T/E		1 Pair													Mar-Jul	-	-	-
220	Waterfowl	Waterfowl	Migration			-													-	Mar-Apr	Oct-Nov	-
234	Waterfowl	Canada goose	Nesting			1 Pair													Mar-Jun	-	-	-
	Waterfowl	Mallard	Nesting			1 Pair													Mar-Sep	-	-	-
	Waterfowl	Wood duck	Nesting			1 Pair													Mar-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
421	Diadromous	Alewife	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	Alewife	Spawning Area			High													Apr-Jun	Apr-Jun	-	-	Apr-Jun
	Diadromous	Blueback herring	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	Blueback herring	Spawning Area			High													Apr-Jun	Apr-Jun	-	-	Apr-Jun
426	Estuarine Nursery	White perch	Spawning Area			-													Apr-Jul	Apr-Jul	-	-	Apr-Jul
449	Diadromous	Alewife	Spawning Area			-													Apr-Jun	Apr-Jun	-	-	Apr-Jun
	Diadromous	Blueback herring	Spawning Area			-													Apr-Jun	Apr-Jun	-	-	Apr-Jun
454	Diadromous	Anadromous fish	Concentration Area			High													-	-	-	-	Apr-Jun
459	Diadromous	Alewife	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	American shad	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	Blueback herring	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
467	Estuarine Nursery	White perch	Spawning Area			-													Apr-Jul	Apr-Jul	-	-	Apr-Jul
	Freshwater	Largemouth bass	Concentration Area			High													-	-	-	Sep-Apr	Sep-Apr
	Freshwater	Smallmouth bass	Concentration Area			High													May-Jun	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	Freshwater	Walleye	Concentration Area			High													Mar-Apr	Mar-May	Apr-Jul	Jan-Dec	Mar-Apr
469	Diadromous	American shad	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
	Diadromous	American shad	Spawning Area			-													Apr-Jun	Apr-Jun	-	-	Apr-Jun

**FISH (continued)**

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					
470	Diadromous	Anadromous fish	Concentration Area			High													-	-	-	-	Apr-Jun
	Estuarine Nursery	White perch	Spawning Area			-													Apr-Jul	Apr-Jul	-	-	Apr-Jul
	Freshwater	Largemouth bass	Nursery Area			-													-	-	Jun-Aug	Jan-Dec	-
	Freshwater	Largemouth bass	Spawning Area			-													May-Jun	May-Jul	-	-	May-Aug
	Diadromous	Alewife	Nursery Area			-													-	-	May-Jun	Jun-Oct	-
471	Diadromous	Alewife	Spawning Area			High													Apr-Jun	Apr-Jun	-	-	Apr-Jun
	Diadromous	American eel	Concentration Area			High													-	-	-	Jan-Dec	-
	Diadromous	American shad	Spawning Area			-													Apr-Jun	Apr-Jun	-	-	Apr-Jun
	Diadromous	Anadromous fish	Concentration Area			High													-	-	-	-	Apr-Jun
	Estuarine Nursery	White perch	Spawning Area			-													Apr-Jul	Apr-Jul	-	-	Apr-Jul
472	Freshwater	Largemouth bass	Concentration Area			High													-	-	-	Sep-Apr	Sep-Apr
	Freshwater	Smallmouth bass	Concentration Area			High													May-Jun	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
	Freshwater	Walleye	Concentration Area			High													Mar-Apr	Mar-May	Apr-Jul	Jan-Dec	Mar-Apr
	Diadromous	Shortnose sturgeon	Concentration Area	E/E	E	High													-	-	-	Nov-Mar	Nov-Mar

**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					
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			-													-	-	-	-	-
536	Wetland	Vernal pool	Vulnerable Occurrence			-													-	-	-	-	-
537	Plant	Threatened plant	Vulnerable Occurrence	T/-		-													-	-	-	-	-
	Wetland	Vernal pool	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					
589	Amphibian	Endangered amphibian	General Distribution	E/-		-													-	-	-	Jul-Nov	Mar-Nov
	Amphibian	Rare amphibian	General Distribution	C/C		-													Feb-Apr	Feb-May	-	Mar-Sep	Feb-Nov
	Amphibian	Rare salamander	General Distribution	C/C		-													Aug-Nov	Sep-Apr*	-	Mar-Jun	Mar-Nov
590	Reptile	Threatened reptile 1	Vulnerable Occurrence	T/-		-													-	-	-	-	Apr-Nov

**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					
658	Bivalve	Alewife floater	Vulnerable Occurrence			-													Aug-Sep	Aug-May	May-Jun	Jan-Dec	Jan-Dec

**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					
694	Bat	Indiana myotis	Colony	E/-	E	-													-	-	-	-	-

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					
	Waterfowl	Waterfowl	Wintering			-													-	-	-	-	-

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	-													May-Jul	May-Jul	May-Jul	Aug-Oct	May-Jul
		Atlantic sturgeon	Spawning Area	-/E	E	-													Apr-Jul	Apr-Jul	-	-	Apr-Jul
		Shortnose sturgeon	General Distribution	E/E	E	-													-	-	-	Jan-Dec	Jan-Dec

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													Apr-Jun	Apr-Jun	May-Jun	Jun-Oct	Apr-Jun
		American eel													-	-	-	Jan-Dec	Sep-Nov
		American shad													Apr-Jun	Apr-Jun	May-Jun	Jun-Oct	Apr-Jun
		Blueback herring													Apr-Jun	Apr-Jun	May-Jun	Jun-Oct	Apr-Jun
		Striped bass													Apr-Jun	Apr-Jun	May-Jul	Jul-Oct	Mar-Oct
		Striped bass													-	-	-	Jul-Oct	Mar-Oct
	Estuarine Nursery	White perch													Apr-Jul	Apr-Jul	Apr-Jul	Jan-Dec	Jan-Dec
	Estuarine Resident	Killifish													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
		Silversides													May-Aug	May-Aug	May-Aug	Jan-Dec	Jan-Dec
	Freshwater	Largemouth bass													May-Jun	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
		Smallmouth bass													May-Jun	May-Jul	Jun-Aug	Jan-Dec	Jan-Dec
		Walleye													Mar-Apr	Mar-May	Apr-Jul	Jan-Dec	Jan-Dec
		Yellow perch													Apr-Jun	Apr-Jun	Apr-Jun	Jan-Dec	Jan-Dec
	Marine Benthic	Atlantic tomcod													Dec-Mar	Dec-Mar	Dec-Jun	Jan-Dec	Oct-Apr






REPTILES & AMPHIBIANS

	Subelement	Species	Monthly Presence												Nest	Hatch	Internest	Juveniles	Adults
			J	F	M	A	M	J	J	A	S	O	N	D					
	Turtle	Common map turtle													-	-	-	Apr-Oct	Apr-Oct

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>
	10B	Freshwater Marshes	156.53	0.24
	10C	Swamps	501.58	0.78
	10D	Scrub and Shrub Wetlands	114.93	0.18
	9A	Sheltered Tidal Flats	124.59	0.19
	7	Exposed Tidal Flats	1.29	0.00

### 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>
	10B	Freshwater Marshes	4,582.03	2.85	5%
	10C	Swamps	3,053.31	1.90	3%
	10D	Scrub and Shrub Wetlands	789.50	0.49	1%
	9A	Sheltered Tidal Flats	14,331.99	8.91	14%
	9B	Vegetated Low Banks	45,184.17	28.08	45%
	8A	Sheltered, Impermeable, Rocky Shores	6,086.43	3.78	6%
	8B	Sheltered, Solid Man-Made Structures	7,828.91	4.86	8%
	8C	Sheltered Riprap	8,310.37	5.16	8%
	7	Exposed Tidal Flats	315.57	0.20	< 1%
	6A	Gravel Beaches	1,740.73	1.08	2%
	5	Mixed Sand and Gravel Beaches	6,525.85	4.05	7%
	4	Coarse Grained Sand Beaches	1,049.39	0.65	1%

Total ESI Shoreline:	99,798.25	Total ESI Shoreline:	62.01
Total Shoreline:	66,672.96	Total Shoreline:	41.43

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)

