

132.—DATES OF THE APPEARANCE OF HERRING, SHAD, BASS, TAUTOG, SCUP, FROSTFISH, FISH-HAWKS, KINGFISHERS, AND GREENLAND SEAL IN TAUNTON RIVER, FROM 1871 TO 1883, INCLUSIVE.

By ELISHA SLADE.

[From a letter to Prof. S. F. Baird.]

Table of the dates of the appearance of six species of fish and of two species of fish-eating birds in Taunton River, Somerset, Bristol County, Massachusetts, latitude 41° 47' N., longitude 71° 8' W., from 1871 to 1883, inclusive.

Years.	Herring (<i>Pomolobus pseudoharengus</i>).	Shad (<i>Alosa sapidissima</i>).	Bass (<i>Roccus lineatus</i>).	Tautog (<i>Tautoga onitis</i>).
1871.....	March 7.....	March 14.....	March 19.....	April 27.
1872.....	March 21.....	March 27.....	March 31.....	May 8.
1873.....	March 27.....	March 31.....	April 2.....	May 13.
1874.....	March 19.....	March 23.....	March 21.....	May 8.
1875.....	March 28.....	March 30.....	April 4.....	May 16.
1876.....	March 19.....	March 31.....	March 30.....	May 4.
1877.....	March 15.....	March 30.....	March 28.....	May 1.
1878.....	March 5.....	March 26.....	March 17.....	April 25.
1879.....	March 17.....	March 24.....	March 21.....	May 9.
1880.....	February 28.....	March 10.....	March 15.....	April 20.
1881.....	March 14.....	March 21.....	March 24.....	April 29.
1882.....	March 5.....	April 3.....	April 1.....	May 7.
1883.....	March 22.....	April 5.....	April 6.....	May 2.

Years.	Scup (<i>Stenotomus argyrops</i>).	Frostfish (<i>Microgadus pruinosis</i>).	Fish-hawk (<i>Pandion haliaetus</i>).	Kingfisher (<i>Ceryle alcyon</i>).
1871.....	June 3.....	November 27.....	March 11.....	March 7.
1872.....	June 10.....	November 20.....	March 24.....	March 22.
1873.....	June 13.....	November 28.....	March 28.....	March 24.
1874.....	June 8.....	November 21.....	March 20.....	March 19.
1875.....	June 12.....	November 30.....	March 26.....	March 28.
1876.....	June 2.....	November 22.....	March 28.....	March 20.
1877.....	June 6.....	November 29.....	March 27.....	March 18.
1878.....	May 28.....	November 30.....	March 22.....	March 2.
1879.....	June 4.....	November 28.....	March 21.....	March 14.
1880.....	May 27.....	November 20.....	February 20*.....	February 27*.
1881.....	June 7.....	November 26.....	March 17.....	March 12.
1882.....	June 15.....	November 23.....	March 31.....	April 1.
1883.....	June 8.....	November 19.....	March 20.....	March 16.

* Fish-hawks and kingfishers remained throughout the winter of 1879-'80.

The appearance of the Greenland seal, *Phoca Greenlandica*, in Taunton River during the past 12 years has been as follows: 1871, December 1; 1872, December 6; 1873, November 29; 1874, December 5; 1875, December 1; 1876, December 1; 1877, November 29; 1878, November 26; 1879, December 9; 1880, November 26; 1881, November 26; 1882, November 28; 1883, December 2.

SOMERSET, BRISTOL COUNTY, MASSACHUSETTS,
November 20, 1883.