

## 45.—NOTES ON FISHES OBSERVED IN LAKE SUPERIOR.

By DAVID S. JORDAN.

In a recent brief visit to Lake Superior (Marquette, Munising, Sault Sainte Marie) some observations were made on fishes obtained by the fishermen in pound-nets and seines. The following is a list of the species seen, only fourteen in number. It embraces, however, most of the species commonly taken in the lake. Although the waters of Lake Superior everywhere abound in fish, the number of different species represented in its fauna is very small.

1. *Acipenser rubicundus* Le Sueur. *Sturgeon*.

Seen in the market at Marquette. Not studied by the writer.

2. *Catostomus catostomus* Forster. *Red sucker*.

Everywhere common. Seen ascending the streams in great numbers, apparently for spawning purposes (July 1). Many adult specimens in rocky pools about cascades in streams running into the lake. Males with a bright red band along the sides.

3. *Catostomus teres* Mitchill. *Common sucker*.

Common in the lake, and at Sault Sainte Marie.

4. *Catostomus nigricans* Le Sueur.

One large specimen seen at the Sault.

5. *Coregonus clupeiformis* Mitchill. *Whitefish*.

Everywhere abundant; taken chiefly in the pound-nets.

6. *Coregonus labradoricus* Richardson. *Sault whitefish*.

Found in enormous numbers early in July ascending the rapids at Sault Sainte Marie. Taken by the Indians in dip-nets. Most fishermen apparently do not distinguish this species from the common whitefish, and no discrimination is made between the two species by consumers. The river whitefish is a smaller fish than *C. clupeiformis*, more elongate, and the flesh is less fat, drier, and less agreeable to the taste. In fresh specimens of this species the teeth on the tongue are very evident. The lower jaw is always shorter than the upper. The coloration is darker than that of the lake whitefish.

7. *Coregonus artedii* Le Sueur. *Lake herring*.

Everywhere very common, in great schools near shore.

8. *Salvelinus namaycush* Walbaum. *Mackinaw trout*; *Lake trout*.

Everywhere abundant. Taken by trolling and in the pound-nets. Extremely variable in markings and shade of coloration. The form or species called siscowet (*S. siscowet* Agassiz) is found only in deep water.

9. *Salvelinus fontinalis* Mitchill. *Brook trout*.

Everywhere. Specimens taken in Lake Superior are larger than brook examples, often reaching a weight of four or five pounds. The specimens found in the lake are paler, duller, and more silvery in color than those taken in the streams.

10. *Esox lucius* L. *Pike*.

Common.

11. *Perca lutea* Rafinesque. *Yellow perch*.

Seen only at the Sault Sainte Marie.

12. *Stizostedion vitreum* Mitchill. *Wall-eyed pike*.

Seen only at the Sault.

13. *Uranidea richardsoni* Agassiz. *Doonfish*.

Said to be common in the lake. One specimen secured. This is evidently specifically identical with specimens from Southern Missouri and the Ohio Valley. Compared with specimens from Southern Missouri the example from Marquette is a little more slender, the coloration a little less definite, being a little darker, with fainter cross-bars, and more conspicuous dark punctulations. The vent is similar in position in all, contrary to the statements of Girard, who finds the vent further back in examples from Lake Superior (Original types of *Cottus richardsoni*). D. VIII—18, A. 12.

14. *Lota lota* L. *Lawyer; Loche*.

Common.

INDIANA UNIVERSITY, BLOOMINGTON, IND., July 11, 1885.

**46.—REPORT UPON THE SHAD AND HERRING FISHERIES OF THE POTOMAC RIVER FOR 1885.**

**By GWYNN HARRIS.**

Number of shad landed at Washington .....	125,408
Number of shad landed at Alexandria .....	19,189
Number of shad shipped to Baltimore per steamer.....	8,800
Number of shad sold on the shores and from trap-nets ....	4,300
Total .....	<u>157,697</u>
Number of herring landed at Washington.....	9,814,033
Number of herring landed at Alexandria.....	3,911,186
Number of herring sold on the river shores and from trap-nets .....	1,700,000
Number of herring shipped to Baltimore by vessels.....	71,800
Total .....	<u>15,497,019</u>