

December 8, 1932

Report 184

The Age of a Landlocked Salmon from Lake George, New York

A sample of scales from a landlocked salmon was received, enclosed in letter of December 5, from Dr. Emmeline Moore, New York State Conservation Department. The following data were given for the specimen: "Landlocked salmon, a breeding male, 21 5/8 inches long from tip to tip, standard length 18 3/4 inches, taken from Lake George December 4, 1932. Weight, 3 pounds and 4 ounces". Determination of age was requested.

The scales very clearly show 3 winter marks. The age is, in growing seasons, four years (i.e. 3 full years + one full growing season). The margin of the scale has formed a very conspicuous spawning mark, characterized by extensive absorption of the posterior field of the scale. No spawning mark is seen at the 3rd winter mark; the specimen was probably maturing for the first time when taken. From measurements of the anterior field of the scale, calculations of size at each year of growth were made by use of direct proportion of total length: size of scale at that length:: unknown length : size of scale at that year mark. Computed lengths (total, in inches) at end of each growing season are as follows:

I (1929)	II (1930)	III (1931)	IV (1932)
2.6	6.1	14.7	21.6 (measurement when taken).

INSTITUTE FOR FISHERIES RESEARCH

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