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Salmon-Markings in Esthonia and the Results obtained up to the present Date.

By

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(Communicated by T. H. JÄRVI.)

Since 1932 parr hatched in the Narva River in Esthonia have been marked annually as follows:—

Year.....	1932	1933	1934	1935	1936	1937
Fish marked..	40	96	358	246	397	428

A total of 1565 specimens. The fish have been caught during the autumn from September to November, and the markings have been made with round silver discs of 9 mm. diameter bearing the letters EV, showing that the marking has been carried out by the Esthonian Ministry of Agriculture. The disc is attached to the dorsal fin. The following sizes of fish have been marked the majority being in their second parr-year.

cm.	< 15.0	15.0— 19.5	20.0— 24.5	25.0— 29.5	30.0— 36.0
%.....	0.8	74.3	20.9	2.9	1.1

Up to the present a total of seven specimens of the marked fish have been caught; of these three were taken in the Narva River itself, the remainder from near the southern coast of Finland in its eastern part, as indicated below in greater detail.

1) EV. 400. Marked 19th October 1933, male, length 19.5 cm. Caught 4th March 1935 at Uusikirkko (Vitikkala). The length was then 41 cm. (from tip of tail 44 cm.) and the weight 0.7 kg. The scale is illustrated in the paper by JÄRVI and MENZIES (Rapp. et Proc.-Verb. XCVII, Fig. 28, p. 28).

2) EV. 678. Marked 8th November 1934, length 18 cm. Caught 28th December 1935 at Tyrisevä. The length was then 36 cm. (39 cm.) and the weight 0.44 kg. The scales showed that it belonged to the 2.1 life-cycle class.

3) EV. 514. Marked 1st November 1934, length 18 cm. Caught in the beginning of June 1936 near Vehkaluoto at the mouth of the Kymi River, i. e., about 5—6 km. of the city of Kotka. Weight then ca. 1.5 kg.

4) EV. 583. Marked 26th October 1934. Length then 18.5 cm., male. Caught 11th June 1937 at waters near Nuokko Island about 16 km. east of Kotka. Weight then 3.8 kg.

Although the number of recaptured salmon is fairly low, they nevertheless appear to indicate that the movement of the fish is along the coastal waters, and varying with the flow of the current—first to the east, then to the west, in other words according to the assumed route (dotted) on the map.

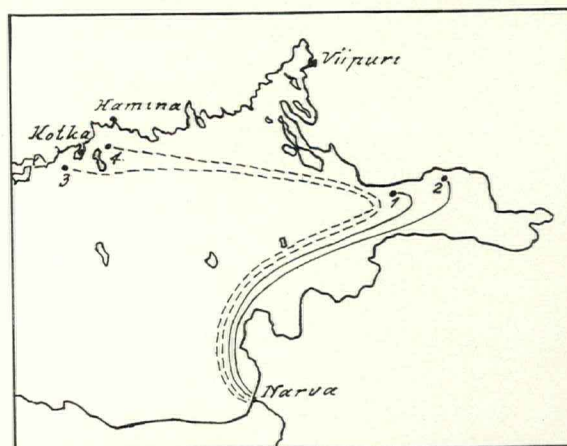


Fig. 1. Migration of Salmon, marked at the Narva River (Esthonia). 1. Uusikirkko; 2. Tyrisevä; 3. Kotka, Vehkaluoto; 4. Kotka, Nuokko.

