

45.—SPAWNING OF ESOX (PIKE OR PICKEREL) IN NORTH CAROLINA.**By E. H. WALKER.**

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

I have been setting gill nets in Salmon Creek. Last Wednesday morning I caught eight pike or pickerel, and four of them were ripe. I tried to impregnate the eggs, but they had been dead too long. I hope to be able to get some more ripe ones. I thought you would like to know what time they spawned.

AVOCA, BERTIE COUNTY, N. C., *February 21, 1883.*

46.—SUMMARY OF DISTRIBUTION OF FISH BY ONE CAR DURING THE PAST SEASON.**By MARSHALL McDONALD.**

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

Mr. Moore's report on the season's work has just come in. The following summary will be of interest to you. The number of miles traveled by car No. 1 in the carp, salmon, and shad distributions aggregates 31,993. The number of shad distributed was 6,715,000, of herring 5,550,000, of carp 113,605, and of salmon 450,000.

UNITED STATES FISH COMMISSION, *August 8, 1883.*

47.—THE MOVEMENTS OF SCHOOLS OF MACKEREL.**By S. J. MARTIN.**

[From letters to Prof. S. F. Baird.]

The mackerel catchers along this coast are doing poorly. Mackerel are plenty on the eastern shore, but they are small ones, and mesh in the seine, and before they can be picked out the dogfish destroy the netting. Two vessels have come in with seines spoilt. There were five vessels in Boothbay yesterday repairing their seines where the dogfish had eaten them. As I told you in my last letter, the large mackerel come up once a week, stay one hour, and then sink. They are full of feed.

All the vessels which were in the Bay of Saint Lawrence came home with full fares, and have all gone back again. One vessel arrived from the bay this morning with 450 barrels, which she caught in twelve days. She reports that mackerel were abundant when she left. Two vessels