

in the usual position behind the anal end of the intestine. Transparent views showed that the segmental ducts were tortuous at their anterior extremities. Nothing was learned of the character of the pronephros, one of the features of development which may very properly be studied when we have once prepared sections from the material which has been preserved for the purpose.

On the 30th of June, or when the young were seventeen days old, it was determined to make an examination of the internal organs of both parents, which was done in the presence of Professor Gill, to learn which one of the parent fishes it was that had acted as nurse. Fortunately there was considerable difference between the two in color; the female had also lost a part of one maxillary barbel, so that it was easy to distinguish them apart. The darkest specimen, with the broadest head, we found was the male, and, as already stated, had acted as the nurse. Upon cutting him open and removing a portion of the milt or testes, they were found as a lobulated paired organ on either side of the mesentery, depending from the dorsal wall of the abdomen. The lobes of the testes were digitate. Upon compressing fragments of the testes under the microscope, active spermatozoa were pressed out. The spent roe or ovary of the female was a paired organ, the right and left sacs of which were joined together posteriorly. The ovarian lobes or leaflets were disposed transversely in the sacs.

The foregoing account of the development and breeding habits of *Amiurus albidus* is preliminary to a fuller one, accompanied by illustrations, taken from hardened and preserved material in the hands of the writer.

CENTRAL STATION, UNITED STATES FISH COMMISSION,
Washington, August 1, 1883.

28.—ON RAINBOW TROUT REARED FROM EGGS BROUGHT FROM CALIFORNIA.

By ROLAND REDMOND.

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

There are some Rainbow trout at the South Side Club, raised from a few eggs you sent them three years since, which show an extraordinary growth for their age, one being 22 inches long and weighing fully three pounds. They have begun to show a change in their spawning season, the eggs having become ripe about Christmas time.

Can you kindly spare us some more eggs this spring? The association is anxious to stock one of its ponds with this fish.

105 FRANKLIN STREET, NEW YORK, March 28, 1883.