

5 cents a pound in San Francisco. The shells are utilized as manure, to some extent, about San Francisco; but, like the meats, are mostly sent to China, where they serve as a fertilizer for rice, the tea plant, &c. In San Francisco they sell at about 25 cents per hundred-weight. Both the meats and shells are shipped to China in sacks. The trade is entirely in the hands of Chinese merchants, who ship by way of Hong Kong. The meats are eaten by all classes, but are cheaper and less esteemed than the native shrimps, which are said to be comparatively scarce.

It is estimated that about 200,000 pounds of shrimps, valued at about \$20,000, are annually sold in the San Francisco markets. The total exports of shrimp meats and shells to China and the Sandwich Islands for 1880 were estimated by Mr. Lockington at above \$100,000. These are at present the most important food invertebrates of the Pacific coast of North America.

The greater part of the Chinese who engage in the shrimp fishery devote nearly all of their time to this industry. They live mainly in small, scattered colonies in San Francisco and Tomales Bays, and number several hundred in all. The more important colonies are at Bay View and along the shores of San Mateo, Santa Clara, Marin, and Contra Costa Counties.

There is no law regulating the shrimp fishery in California, and fishing is carried on more or less continuously throughout the year. It seems quite probable that the consumption of shrimps in the vicinity of San Francisco exceeds their rate of increase, and that a marked decrease in the supply will soon result, as has happened in the case of the food fishes in the bay of San Francisco. No such decrease has, however, been yet observed.

SHAD IN PUGET SOUND.

By JAMES G. SWAN.

Mr. G. M. Haller, of Seattle, Wash., announces the taking by fishermen in a net of a shad, August 26, 1882, in Puget Sound. The Seattle papers also mention it and say that it was preserved by Mr. Levy for the Young Naturalists Society of Seattle. This specimen must have come from the Columbia River or have found its way north from San Francisco Bay. I think it was quite small—say 8 or 10 inches long—but I have not seen the dimensions accurately given.

PORT TOWNSEND, WASH., *August 29, 1882.*