



RECENT FISHERY PUBLICATIONS

Recent publications of interest to the commercial fishing industry are listed below.

FISH AND WILDLIFE SERVICE PUBLICATIONS

THESE PROCESSED PUBLICATIONS ARE AVAILABLE FREE FROM THE DIVISION OF INFORMATION, U. S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C. TYPES OF PUBLICATIONS ARE DESIGNATED AS FOLLOWS:

- CFS - CURRENT FISHERY STATISTICS OF THE UNITED STATES AND ALASKA.
 FL - FISHERY LEAFLETS
 SL - STATISTICAL SECTION LISTS OF DEALERS IN AND PRODUCERS OF FISHERY PRODUCTS AND BYPRODUCTS.
 SEP. - SEPARATES (REPRINTS) FROM COMMERCIAL FISHERIES REVIEW

Number	Title	Number	Title
CFS-703	- Fisheries of the United States and Alaska, 1949 Annual Summary, 12 p.	SL-14	- South Carolina, 1951, 2 p.
CFS-706	- Texas Landings, October 1951, 4 p.	SL-15	- Georgia, 1951, 2 p.
CFS-713	- Frozen Fish Report, December 1951, 10 p.	SL-17	- Alabama, 1951, 3 p.
CFS-722	- Frozen Fish Report, January 1952, 10 p.	SL-20	- Texas, 1951, 4 p.
FL-336k	- Quarterly Outlook for Marketing Fishery Products, January-March 1952, 30 p.	SL-21	- California, 1951, 10 p.
		SL-24	- Minnesota (Lakes Area), 1950, 1 p.
		SL-25	- Wisconsin (Lakes Area), 1950, 2 p.
		SL-28	- Michigan, 1950, 3 p.
		Sep. 304	- The Northern Shrimp Fishery of Maine.
		Sep. 305	- Technical Note No. 16 - A Simple Fensometer for the Measurement of Texture Changes in Canned Salmon.

Wholesale Dealers in Fishery Products (Revised):

- SL-2 - New Hampshire, 1951, 1 p.
 SL-4 - Rhode Island, 1951, 2 p.
 SL-10 - Maryland, 1951, 10 p.
 SL-12 - Virginia, 1951, 11 p.

THE FOLLOWING SERVICE PUBLICATION IS FOR SALE AND IS AVAILABLE ONLY FROM THE SUPERINTENDENT OF DOCUMENTS, WASHINGTON 25, D. C.

Estimation of Age and Growth of Yellowfin Tuna (NEOTHUNNUS MACROPTERUS) in Hawaiian Waters by Size Frequencies, by Harvey L. Moore, Fishery Bulletin 65 (From Fishery Bulletin of the Fish and Wildlife Service, vol. 52), 17 p., illus.,

printed, 15 cents, 1951. The growth rate of the yellowfin tuna is estimated from an analysis of original data and the estimates are compared with others in the literature. All evidence points to a very rapid growth of as much as 60 pounds a year.

MISCELLANEOUS PUBLICATIONS

THESE PUBLICATIONS ARE NOT AVAILABLE FROM THE FISH AND WILDLIFE SERVICE, BUT USUALLY MAY BE OBTAINED FROM THE AGENCIES ISSUING THEM. CORRESPONDENCE REGARDING PUBLICATIONS THAT FOLLOW SHOULD BE ADDRESSED TO THE RESPECTIVE AGENCIES OR PUBLISHERS MENTIONED. DATA ON PRICES, IF READILY AVAILABLE, ARE SHOWN.

Bulletin of the Fisheries Society of the Philippines, Commemorative Issue, vol. 1, 104 p., illus., printed, English, \$2.00 (US\$1.00) Fisheries Society of the Philippines, Manila, Philippines, 1950. This Society was inaugurated in

June 1950 to stimulate and encourage research and to promote collaborative research in fisheries, and coordinate these with the economic needs of the nation; to cooperate with the government of the Philippines in the execution of

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fishery laws and in the formulation of policies dealing with the conservation and development of fisheries; and to gather and disseminate technical and other information pertaining to fisheries. Among the articles included in the first bulletin of the newly-organized Society are: A Survey of Fisheries Educational Institutions; The Future of the Trawling Industry in the Philippines; Management of Some Philippine Fisheries; Availability of Calcium in Bagoong (Salted Fish Paste) and Dilis (dried anchovies); Anatomical Evidence in Cases of Fish Killed by Explosives; and New Methods of Fish Capture in the Philippines.

Bulletin of the International Institute of Refrigeration, pp. 457-594, vol. XXXI, no. IV, printed. Institut International du Froid, Paris, France, 1951. Included are brief abstracts on the following subjects: biology and chemistry of food products and sanitation; refrigerating machines and equipment, refrigerated installations and experimental methods; low temperature application; and refrigerated transport.

Canadian Fish Recipes, Consumer Bulletin No. 3, 64 p., illus., printed. Department of Fisheries of Canada, Ottawa, Canada, 1951. This booklet deals with the preparation and cooking of fish and shellfish. The subjects covered include instructions in buying fish, storing fish in the home, preparing whole fish for cooking, general rules for cooking fish, home preparation of fish for freezing, home canning of fish, and recipes for main dishes, smoked, pickled and salted fish, shellfish, soups and chowders, salads, sauces, appetizers and sandwich spreads.

Central Fisheries Station of Japan Contributions 1948-49, Contribution Nos. 113-171, 336 p., illus., printed, Japanese and English. Tokaiku Suisan Kenkyujo, Tsukishima, Kyobashi, Tokyo, Japan, 1951. Reports on the following subjects are included: Injuring Mechanisms of the Oyster Drill (*Purpura clavigera*) to Young Oyster (*Ostrea gigas*); Green Discoloration of Frozen Swordfish (*Xiphias gladius*); Effect of Sodium Nitrite in Preserving Fish; DDT as a Net Preservative; Strength of the Japanese Agar-Agar Gel; Fish Insulin; Sodium Phosphate Crystals Found in Mild-Cured Salmon; Preservation of Marine Products by Chemicals (Chlorine Compounds); Struvite Found in Some Fisheries Products; A Rapid Determination of Sodium Chloride in Fisheries Products; Morphometry and Rate of Growth in Clam (*Matra sulcataria*) in Tokyo Bay; Ecology of a Common Shore Shrimp; and Bad Taste of Amino Acids Mixture (Elimination of Bad Taste).

(Ceylon) Administration Report of the Acting Director of Fisheries for the Years 1940 to 1950 (Part I--1940 to 1947), by E. R. A. de Zylva, 20 p., printed, 50 cents postpaid. Government Publications Bureau, Colombo, Ceylon, October 1951. Reports on the following subjects are included: the Fisheries Ordinance; Fisheries Advisory Board; dynamiting and poisoning of fish; indebtedness of fishermen; cooperative fishing

societies; loans to the fishing industry; fisheries welfare stores; trawler fishing; fish marketing; and fisheries research.

Report on a Survey of the Inland Fisheries of Ceylon, by W. H. Schuster, Sessional Paper XXIV-1951, 15 p., map, printed, 50 cents postpaid. Government Publications Bureau, Colombo, Ceylon, October 1951. Reports on the results of an investigation made to estimate the potentialities of the brackish-water and fresh-water fisheries of Ceylon. The author's recommendations for the development of these fisheries are included.

Condition and Future of Dodecanesian Sponge-Fishery, by Nic S. Pizaniias, 42 p., printed, Greek and English. Central Dodecanesian Committee, Athens, Greece, 1946. Every effort is being made to rehabilitate the sponge fishery, the second most important means of livelihood in the Dodecanese Islands. This report describes the present condition and the future of the Dodecanesian sponge fishery, the importance of the fishery for the Dodecanese, the deficiencies of the economic organization of the sponge fishery enterprise, and discusses means of eliminating these deficiencies.

"The Fisheries of Canada--A Valuable Asset," article, Foreign Trade, vol. 11, no. 262 (January 5, 1952), pp. 2-7, printed, single copy 10 cents. Foreign Trade Service, Department of Trade and Commerce, Ottawa, Canada. In this article is presented a resume of the fisheries of Canada. Among the subjects discussed are the early fisheries, the Canadian fishing grounds, the Atlantic and Pacific coast fisheries, fresh-water fishing, and export trade in fishery products.

Freshwater Fish as an Ingredient of Mink Rations, by J. M. Bell and Charles Thompson, Bulletin No. 92, 20 p., printed. Fisheries Research Board of Canada, Minister of Fisheries, Ottawa, Canada, 1951. A survey of 160 mink ranches in western Canada shows that a majority use fresh-water fish in feeding mink. Tullibee (*Leucichthys tullibee*) and jackfish or pike (*Esox eucius*) are the fish most frequently used. Scraps of pickerel (*Stizostedion vitreum*) and whitefish (*Coregonus clupeaformis*) are used when obtainable. Ling or burbot (*Lota lota maculosa*) and suckers (*Catostomus*) are fed by some ranchers. "It would appear therefore that inland fish performed satisfactorily in mink rations (a) when care was taken to destroy the thiaminase by cooking those species containing it, or to feed additional thiamin-rich supplements, (b) when storage conditions for frozen fish were satisfactory, and (c) when recommended levels of 'protective foods' were included in the rations," state the authors in their summary. Of the ranches surveyed, only two regularly fed ocean fish or products.

(Illinois) Commercial Fisheries of Illinois Rivers: A Statistical Report for 1950, William C.

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Starrett and Sam A. Farr, Biological Notes No. 29, 35 p., illus., tables, printed. Natural History Survey Division, Department of Registration and Education, Urbana, Illinois, November 1951. The Illinois commercial fishing industry provided full-time employment for 253 fishermen and part-time work for 442 in 1950. The fish catch amounted to 8,954,015 pounds and was valued at \$682,260. Included in this report are statistics on pounds and value of fish taken from Illinois rivers and the Mississippi River by Illinois commercial fishermen, tabulated by species and by types of gear; and estimated value of fishing devices and equipment. Data by Mississippi navigation pools are also given.

The Indian Dip Net Fishery at Celilo Falls on the Columbia River, by R. W. Schoning, T. R. Merrell, Jr., and D. R. Johnson, Contribution No. 17, 43 p., illus., printed. Oregon Fish Commission, Portland, Oregon, November 1951. This is the first of a series of reports of cooperative studies by the Washington Department of Fisheries and the Oregon Fish Commission. This report discusses the customs of the Indian dip-net fishery at Celilo Falls; geography of the grounds; fishing equipment; analyses of the closed-season catch and the commercial catch; disposition of fish during closed season; conditions affecting the fishery; and evaluation of the Indian catch.

Marine Industries of Eastern Arabia, by Richard LeBaron Bowen, Jr., 17 p., illus., printed, English. (Reprinted from the Geographical Review, July 1951). This report deals with the various methods of fishing utilized in Eastern Arabia--from a simple hand line to large and complicated fish weirs. It also includes a description of the pearl fisheries of the Persian Gulf.

(Colony of Mauritius) Annual Report on the Fisheries Branch for the Year 1950, No. 15 of 1951, by J. de B. Baissac, 14 p., printed, 25 cents. J. Eliel Felix, Government Printer, Fort Louis, Mauritius, April 1951. Reviews briefly the commercial fisheries in the Colony of Mauritius. Statistics are given on the annual production of fishery products for each district, the average monthly catch by gear, and the monthly production for 1946-50.

Mid-Century Alaska, 166 p., illus., with map, printed, 75 cents. Office of Territories, U. S. Department of the Interior, Washington, D. C., 1951. (For sale by Superintendent of Documents, Washington 25, D. C.). This booklet serves as a source of reference to aid the student, the prospective settler, and the potential investor. In addition to general information about Alaska and its industries, it describes the commercial fisheries of Alaska and discusses employment opportunities in the fishing industry.

(Oregon) Fisheries Statistics of Oregon, Contribution No. 16, 176 p., illus., printed. Oregon

Fish Commission, Portland, Oregon, September 1951. This statistical bulletin provides a ready source of information concerning the productivity of the marine and river commercial fisheries of the State of Oregon for recent years. With the exception of the river fisheries, only the statistics from 1928 to 1949 are presented. For the Columbia River fisheries, the records are fairly complete and data for earlier years are given. The coastal rivers are covered from 1923 to 1949, and the troll fishery data begin with 1925. A list of the names of commercial fishes is included in this report, together with a description of each fishery.

The Oyster Industry of Willapa Bay, Washington, by Trevor Kincaid, 45 p., illus., printed, \$1.00. Calliostoma Co., 1904 East 52nd St., Seattle, Wash., 1951. An account of the oyster industry in brief non-technical language. This report discusses extent of the industry, kinds of oysters utilized, ownership of oyster lands, tidal conditions, history of the industry, methods employed to maintain supply of oysters, planting of oyster seed, cultivation of beds, harvesting oysters, unloading oysters at plants, preparation of oysters for market, oysters as food, pearls in oysters, enemies of the oyster, uses for oyster shell, and the oyster laboratory of the State Department of Fisheries.

The Pribilof Report, 1949, 83 p., illus., printed. U. S. Department of the Interior (Bureau of Indian Affairs and Fish and Wildlife Service), Washington 25, D. C., 1951. This publication covers the results of a factual study of the living conditions and human problems of the natives in the Pribilof Islands and various other native communities in the Bering Sea area. Because of the close relationship of the natives to the management of the highly valuable fur-seal resource, they enjoy an economic security on a par with the highest income group of any native people in all Alaska, states the report. The school systems now compare favorably with those in the best native communities in Alaska, and the hospitals and medical facilities are adequate. Other findings and recommendations of the survey group are included in this report.

Purse Seines to Lobster Pots, by F. H. Wooding, 19 p., illus., printed. Department of Fisheries of Canada, Ottawa, Canada, 1952. (Reprinted from Canadian Geographical Journal). This booklet describes the principal methods of catching fish in Canada's commercial fisheries. Included are descriptions of catching fish with bait, snaring fish with nets, and capture by direct attack. Short descriptions of the main types of fishing gear, together with illustrations, are included.

(Rhode Island) Division of Fish and Game (1950 Report), by Edward C. Hayes, Jr., Supplement, 18 p., printed. Department of Agriculture and Conservation, Providence, Rhode Island, 1951. This publication includes, among other data, a

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report on the number of commercial fisheries licenses issued for each fiscal year 1945-46 through 1949-50; the lobster catch for 1950; number of lobster licenses issued and revenue received; and the lobster catch by months.

(Scotland) Herring Industry Board Sixteenth Annual Report for the Year Ended March 31st, 1951, 36 p., printed, 1s 3d (about 20 U. S. cents). His Majesty's Stationery Office, London, England, 1951. This is a report of Scotland's herring fisheries, with data on marketing, research and development, and the herring fleet. Included are statistics on the volume and value of catches in principal ports, cured herring production, composition and disposition of the fleet operating in East Anglia, and the utilization of herring. A description of the economic status of the herring industry and a financial statement of the Herring Industry Board for the year ending March 31, 1951, are also included. The economic state and the

present state of the catching section of the herring industry, catching costs, production and consumption trends for 1946-50, the decline of the home market, and production and usage are discussed in an appendix to this report. Certain proposals for the redevelopment of the industry and the exploration of new fields of distribution are presented.

Studies on the Structure of the Fish School, by C. M. Breder, Jr., 27 p., illus., printed, 50¢. Bulletin of the American Museum of Natural History, vol. 98, article 1, November 19, 1951. This paper is concerned with the schooling behavior of one species of fish (Jenkinsia lamprotaenia), and the various influences that bear both on the form a school will take and the location in which it will appear. Observations are made on the effect of light and darkness, approach to backgrounds, formation of a mill, spacing and size of individuals, and effects of weather, isolation, temperature and depth of water.



MARKET NEWS SERVICE SECTION

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