

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

FISH AND WILDLIFE SERVICE PUBLICATIONS

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

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

Number	Title
CFS-425	- Massachusetts Landings, March 1948
CFS-426	- New England Fisheries, 1945
CFS-428	- Frozen Fish Report, October 1948
CFS-429	- Fish Meal and Oil, August 1948
CFS-430	- Maine Landings, August 1948
CFS-434	- Manufactured Fishery Products, 1945
FL-320	- Rosefish Cookery--A Demonstration Manual
SL-111 (Revised)	- Firms Canning Clam Products, 1947

Sep. 220 - United States Per Capita Consumption of Fishery Products
 Sep. 221 - Preliminary Study of Total Bacterial Plate Count Method for Fishery Products.

"Bangos Culture in the Philippines," article, by W. F. Carbine, The Progressive Fish-Culturist, October 1948, p. 187-197, illus., bibliography. Reprints available.

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Distribution and Occurrence of Starfish on Connecticut Oyster Beds in the Fall of 1948, Bulletin No. 17, 6 p., mimeographed. Reports in detail on the second semi-annual survey of the distribution and occurrence of starfish on Connecticut oyster grounds conducted by the Service during late October and early November 1948. The area surveyed was the same as that covered in previous surveys (from Morris Cove and Merwin Point at New Haven to Penfield Reef, west of Bridgeport). Available free only from the Fishery Biological Laboratory, U. S. Fish and Wildlife Service, Milford, Conn.

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The publications immediately following, although issued by the Service, are available only by purchase from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., at the price indicated after each listing.

Contributions to the Biology of the Pacific Tunas, by Milner B. Schaefer and John C. Marr, Fishery Bulletin 44, 206 p., printed, with illus. and tables, 15 cents a copy (from Fishery Bulletin of the Fish and Wildlife Service, Volume 51). Although the Pacific tunas support the most valuable fishery on the Pacific Coast of the United States, and are commercially important elsewhere in the Pacific Ocean, little is known of their life histories, according to the authors of this publication. Important observations on the biology of the yellowfin and skipjack tunas are recorded in the three papers which make up this report. Some of the observa-

tions are based upon material gathered off Costa Rica aboard the factory ship Pacific Explorer during the late winter and spring of 1947 by the authors, who were abroad as scientific observers of the Fish and Wildlife Service. The observation of sexually mature fish and later of spent fish, of both species near Costa Rica, together with the capture of very young juveniles, demonstrates the existence there of a spawning area for the yellowfin tuna, Neothunnus macropterus, and the oceanic skipjack, Katsuwonus pelamis. Similar data gathered at Bikini indicate that the oceanic skipjack spawns also in that vicinity. A study of the sizes of yellowfin tuna taken in commercial catches off Costa Rica shows that the tunas tend to aggregate by sizes, which is important to the design of sampling plans. These data also shed light on the problem of age and growth of this species. The three papers contained in this publication are: "Spawning of yellowfin tuna (Neothunnus macropterus) and skipjack (Katsuwonus pelamis) in the Pacific Ocean off Central America, with descriptions of juveniles;" "Size composition of catches of yellowfin tuna (Neothunnus macropterus) from Central America, and their significance in the determination of growth, age, and schooling habits;" and "Observations on the spawning of oceanic skipjack (Katsuwonus pelamis) and yellowfin tuna (Neothunnus macropterus) in the northern Marshall Islands."

English and Local Common Names of Philippine Fishes, by A. W. Herre and A. F. Umali, Circular 14, 128 p., printed, 25 cents a copy. This publication is the first of a series of reports resulting from the cooperative undertakings of the Fish and Wildlife Service and the Philippine Bureau of Fisheries in a program designed to rehabilitate, explore, and develop the Philippine fisheries and fishery industries. The lists of common and local names of Philippine fishes presented in this booklet will assist in clarifying the very confusing problem of popular fishery nomenclature in the Philippines due to the fact that common names of fishes in the Philippines are more or less localized, sometimes being confined to a single town or barrio. It covers the common names of fishes in 11 Philippine languages and dialects. The first section gives the names in English, the equivalent in the 11 languages and dialects, and the scientific name. The second section gives the common or local names in the 11 languages and dialects, the English equivalent, and the scientific name.

Guarding Our Wildlife Resources, by Rachel L. Carson, Conservation in Action, No. 5, 46 p., printed, 30 cents a copy. This booklet, the fifth in a series of "Conservation in Action" bulletins being issued by the Service, contains the following chapters on fisheries: "Marine Fisheries;" "Inland Fishery Resources;" "International Cooperation in Fishery Conservation;" and "Inter-American Cooperation in Conservation."

ARTICLES BY FISH AND WILDLIFE SERVICE AUTHORS IN OTHER PUBLICATIONS

"The Turbulent Oyster Trade, Part 1--In the Nineteenth Century," by James Wharton, The Commonwealth, November 1948, Vol. xv, No. 11, p. 9-12, illus. Virginia State Chamber of Commerce, Richmond, Va., 15 cents per issue. The author traces the efforts made by Virginia in the nineteenth century to stabilize its oyster industry. A second part will appear in a subsequent issue of the publication. (Not available from U. S. Fish and Wildlife Service.)

MISCELLANEOUS PUBLICATIONS

THE FOLLOWING PUBLICATIONS MAY BE OBTAINED, IN MOST INSTANCES, FROM THE AGENCIES ISSUING THEM.

The Abalones of California, by Paul Bonnot, article, California Fish and Game, Vol. 34, No. 4, October 1948, p. 141-169, illus. with photos. Department of Natural Resources, San Francisco, Calif. Contains life history notes, discusses the commercial fishery and commercial fishing methods, uses and commercial processing of meat and shells, and the sport fishery.

Advance Report on the Fisheries of Quebec, 1947, 20 p. (mostly statistical tables), processed, 10 cents. Fisheries and Animal Products Statistics, Dominion Bureau of Statistics, Canadian Department of Trade and Commerce, Ottawa, Canada, 1948. This booklet gives the quantity and value of fish caught and marketed in 1947 and 1946 from Quebec's sea and inland fisheries, capital equipment of the fisheries, and employees in the fisheries.

The American Nautical Almanac, 1949, 318 p. with tables, printed, \$1.50. The Nautical Almanac Office, United States Naval Observatory under the authority of the Secretary of the Navy, Washington, D. C., 1948. This book provides the navigator with a compact publication containing all of the ephemeris (astronomical) material essential to the solution of problems of navigational position. The material is similar to that contained in the 1948 issue of this same volume. It also contains an explanation of the arrangement and use of the volume. Only available by purchase from the Superintendent of Documents, Washington 25, D. C.

Annual Report 1947, International Pacific Salmon Fisheries Commission, New Westminster, B. C., Canada, 1948, 32 p. with photos and graphs, printed. A report of the Commission's second year of regulating the sockeye salmon fisheries within the waters outlined by the Convention. Quotes the U. S. Enabling Act (Public Law 255--80th Congress, Chapt. 345--1st Section) which gives the force of law to the Commission's regulations in Treaty waters within the U. S. boundaries, gives the regulations promulgated by the Commission, lists the total landings, escapement, and engineering operations by area, and reports on actions taken by the Commission in various areas on the West Coast of Canada and the United States.

Fish Consumption in Canada (A Statistical Report for 1945, 1946, and 1947), by Jean B. Tousignant, 46 p., mimeographed, limited distribution. Economics Division, Department of Fisheries, Ottawa, Canada, May 1948. Gives Canadian domestic consumption of fish by species and by products. Separate figures are shown for cod, haddock, salmon, halibut, herring (including sardines), pilchards, mackerel, lobster, lake trout, sauger, tullibee, whitefish, other sea fish, other fresh-water fish, and other shellfish. The main groups of products are divided into fresh and frozen round (or dressed), fresh and frozen filleted, fresh and frozen shellfish, smoked fish (divided into "split" and "fillets" for cod and haddock), wet-salted and dried fish ("split" and "fillets"), pickled fish, and canned fish and shellfish. The calculation of the domestic consumption of fish has been worked out in terms of product weight (pounds) which is the form in which the fish is marketed. The quantities on fish consumption appear in product weight and also in edible weight.

Foreign Market Notes--Fish and Fish Products (Arthur M. Sandberg Reports on the Situation in the Netherlands, Belgium, and Switzerland), Foreign Agriculture Circular, FFP-2-48, November 24, 1948, 4 p., mimeographed. Office of Foreign Agricultural Relations, U. S. Department of Agriculture, Washington, D. C., free. A second preliminary report of a study of market outlets in the Netherlands, Belgium, and Switzerland for and competition with United States fish and fish products, conducted under the provisions of the Research and Marketing Act. The first report, FFP-1-48, covered France, the United Kingdom, and Ireland.

Light List Mississippi and Ohio Rivers and Their Tributaries, CG-161, 370 p., printed. United States Coast Guard, Treasury Department, Washington, D. C., 1948. This list, published annually and corrected to January 1, 1948, describes aids to navigation maintained by or under authority of the United States Coast Guard, in waters of the navigable inland rivers, which include the Mississippi, Illinois, Des Plaines, St. Croix, Missouri, Red, Minnesota, Ohio, Tennessee, Cumberland, Kanawha, Monongahela, and Allegheny Rivers.

National Progress in Food and Agriculture Programs, 1948, 147 p., processed. Food and Agriculture Organization of the United Nations, Washington, D. C., September 1948, \$1.00 a copy. Includes an analysis of 1948 progress and program reports on the fisheries of 46 countries and territories together with reports on agriculture and forestry. Data on fisheries covers the expansion and improvement of production, improvements in handling and marketing the catch, education and research, maximum utilization of supplies, and prospects and problems.

Program of Work for 1949, 4th Session FAO Conference, C 48/2, 48 p., processed. Food and Agriculture Organization of the United Nations, Washington, D. C., November 15, 1948. Presents the program of work for 1949 which was considered at the 4th Session of the FAO Conference held in Washington on November 15. Includes the program of the Fisheries Division of FAO.

A Survey of the Capacity of Cold Storage Warehouses in the United States as of October 1947, by A. S. Walker and M. R. Banks, 33 p. with tables and graphs, processed. Marketing Facilities Branch, Production and Marketing Administration, U. S. Department of Agriculture, Washington 25, D. C., free, September 1948. This survey is the fourteenth of a series of biennial space surveys issued since 1921 and covers 1,781 plants. The booklet contains a map of the United States showing the distribution of net cold storage space suitable for storing fish, by States. In addition, it contains a table giving the total number of firms, the amount of freezer and cold storage space (29° F. and below), and the amount of cooler space (above 29° through 50° F.) in warehouses handling fish by State or region.

"Surveys of World Fisheries," article, Fisheries Bulletin, October 1948, Vol. 1, No. 3, p. 72-75. Food and Agriculture Organization of the United Nations, Washington, D.C. (Bulletin, 25 cents per copy). Covers the fisheries of Egypt and the Anglo-Egyptian Sudan.

Third Annual Report 1946, Maryland Board of Natural Resources, Annapolis, Md., 140 p., illus., tables, graphs. Contains Reports of the Department of Tidewater Fisheries giving oyster production 1945-46 season, crab and fish production 1945; Department of Game and Inland Fish; Department of Research and Education giving data on oysters, crabs and fish investigations and aid given by the Fish and Wildlife Service. Also contains two articles: "Effect of Susquehanna River Stream Flow of Chesapeake Bay Salinities and History of Past Oyster Mortalities on Upper Bay Bars," by G. Francis Beaven, Maryland Department of Research and Education, and "Commercial Aspects of the Upper Chesapeake Bay Oyster Bars in the Light of Recent Oyster Mortalities," by James B. Engle, Fish and Wildlife Service.

Work of FAO 1947/48, C 48/10, 90 p. printed. Food and Agriculture Organization of the United Nations, Washington, D. C., September 1948, price \$1.00. Report of the Director-General to the Fourth Session of the Conference of the Food and Agriculture Organization of the United Nations. Summarizes the work of FAO since the Third Conference held in Geneva from August 25 to September 11, 1947. The work conducted by the Fisheries Division in 1947-48 is described. (See Commercial Fisheries Review, November 1948, page 41 for review).

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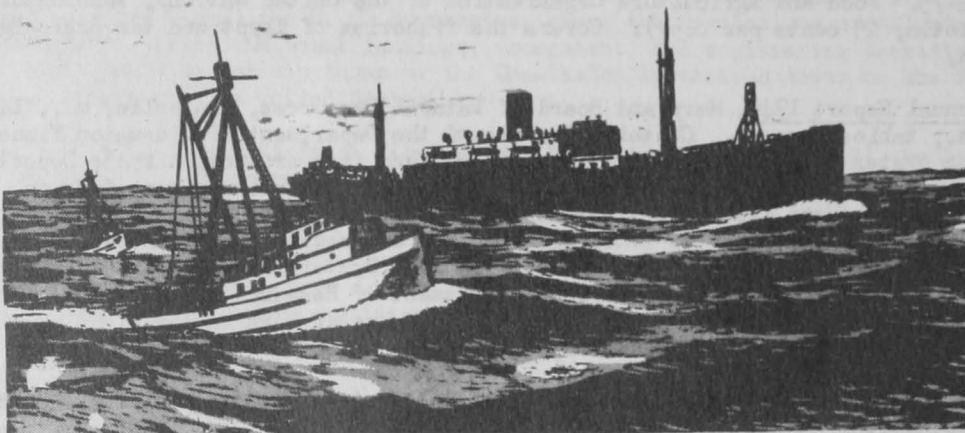
Illustrator -- Gustaf T. Sundstrom

Margaret C. Harris and Norma D. Loeffel

S. S. PACIFIC EXPLORER

Part III - Below Deck Arrangements and Refrigeration Equipment

Fishery Leaflet 316, "S. S. Pacific Explorer, Part III - Below Deck Arrangements and Refrigeration Equipment," recently issued by the Service, is the third of a series of reports on the Pacific Explorer and covers the structure of the ship and the operational features of the refrigeration system. An American factory ship, the Pacific Explorer, became a reality in 1945, when the War Food Administration recommended that the Defense Plants Corporation (a subsidiary of the Reconstruction Finance Corporation) should acquire and convert an ocean-going vessel to a factory ship to further the war effort by increasing the supplies of protein food.



This 39-page illustrated report gives detailed data obtained from the operation of the vessel which will be valuable to the tuna industry and others in the domestic fisheries who may plan to freeze fish at sea or in distant areas. It includes recommendations for the refrigeration plant and recommendations for design of tuna receiving vessels.

The factors considered in the conversion of the ship and a general description of the arrangement of the vessel were published in the January 1947 issue of Commercial Fisheries Review and as Separate No. 161. Part II on suggestions for operators of tuna receiving ships was issued as Fishery Leaflet 301. All of these publications can be obtained free upon request from the U. S. Fish and Wildlife Service, Washington 25, D. C.

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DEPARTMENT OF THE INTERIOR

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