



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.
- ECML - ECONOMICS AND COOPERATIVE MARKETING LEAFLETS.
- FL - FISHERY LEAFLETS.
- MDL - MARKET DEVELOPMENT SECTION LISTS OF DEALERS, LOCKER PLANTS, ASSOCIATIONS, ETC.
- SEP. - SEPARATES (REPRINTS) FROM COMMERCIAL FISHERIES REVIEW.
- SL - STATISTICAL SECTION LISTS OF DEALERS IN AND PRODUCERS OF FISHERY PRODUCTS AND BYPRODUCTS.
- WL - WILDLIFE LEAFLETS.

<u>Number</u>	<u>Title</u>
CFS-495	- Fish Meal and Oil, August 1949, 2 p.
CFS-496	- Maine Landings, July 1949, 4 p.
CFS-497	- Canned Fish & Byproducts Annual Summary 1948, 20 p.
CFS-498	- Massachusetts Landings, June 1949, 14 p.
SL-106	(Revised)- Firms Canning Shad or Shad Roe, 1948, 1 p.
SL-110	(Revised)- Firms Canning Oysters and Oyster Products, 1948, 2 p.
SL-112	(Revised)- Firms Canning Shrimp, 1948, 2 p.
SL-151	(Revised)- Firms Manufacturing Fish Meal, Scrap, Oils, etc., 1948, 7 p.
SL-157	(Revised)- Firms Manufacturing Fish Liver Oils, 1948, 2 p.
SL-159	(Revised)- Firms Manufacturing Fresh-Water Mussel-Shell Products, 1948, 1 p.
FL-160	(Revised)- Partial List of Journals and Newspapers Concerning the Fisheries, 7 p.
FL-344	- Control of Aquatic Plants in Ponds and Lakes, 26 p., illus.
FL-336b	- Quarterly Outlook for Marketing Fishery Products, Oct.-Dec., 1949, 21 p., illus.
FL-352	- United States Per Capita Consumption of Fishery Products, 10 p.
MDL-51	(Revised)- Officials of Refrigerated Locker Plant Associations, State and National, 3 p.
ECML-3	- Questions and Answers on the Fishery Cooperative Marketing Act of 1934, 6 p.
WL-323	- Old Man of the Pribilofs (A Story of the Alaska Fur Seals), 13 p., illus.

Sep. 238 - Interstate Fishery Cooperation and Conservation

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Effects of Oil Mixed with Carbonized Sand on Aquatic Animals, by Walter A. Chipman and Paul S. Galtsoff, Special Scientific Report: Fisheries No. 1, 72 p., illus., processed, August 1949. Limited distribution. This report is a study of the effects on aquatic organisms of oil mixed with carbonized sand undertaken by the Service at the request of the Department of the Navy. Describes in detail the experiments conducted dealing with the toxic effect of oil and sand mixture, and contains the observations of the authors on the amount of carbonized sand required to submerge a known quantity of oil.

MISCELLANEOUS PUBLICATIONS

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

Annual Report of the Delaware Commission of Shell Fisheries of the State of Delaware for the Fiscal Year Ending June 30, 1949, 8 p., processed. The Delaware Commission of Shell Fisheries, Dover, Del., 1949. Describes the activities of the Commission in regulating and controlling the oyster industry of Delaware. The production of the seed beds as well as of the leased grounds is shown.

Annual Report of the Game Department, Part II--Fisheries (for the year ended December 31, 1946, including the years 1940-45), 82 p., with tables, 3s. (approximately 42 cents). Game Department, Entebbe, Uganda Protectorate, 1948. Data on production, gear, fishermen, fishing effort, and prices for the fisheries of the various lakes in the Protectorate are given in this booklet. In addition, there is a report on nets (supplies, quality, prices, types, etc.) and on the imports and exports of dried fish.

The Common Food-Fishes of the Madras Presidency, by Rao Sahib Dr. D. W. Devanesen and K. Chidambaram, 79 p., printed. Department of Industries and Commerce, Madras, India, 1948. This booklet is a list of the important food-fishes of Madras, giving spawning-season, season of abundant catches, food, methods of capture, economic importance, etc. The book is divided into three parts: Part I - "Cartilaginous Food-Fishes;" Part II - "Marine Food-Fishes;" and Part III - "Fish Byproducts and Glossary."

Current Tables Pacific Coast North America, 1950, Serial No. 727, 145 p., with diagrams, printed, 25 cents. Coast and Geodetic Survey, U. S. Department of Commerce, Washington, D. C. or its agencies. Detailed data are contained in this publication on daily ocean current predictions, current differences and constants, velocity of current at any time, duration of slack, coastal tidal currents, wind currents, and current diagrams.

The ECA and Small Business, 16 p., printed. Economic Cooperation Administration, Washington, D. C., August 1949. This booklet is to help the small independent manufacturer or producer, so that he may avoid lost motion, unnecessary expense and possible financial loss. It lists some of the more important problems which one seeking to expand export trade under the Marshall Plan will encounter. Although it does not specifically mention fishery products, the general information will be of value to those interested in exporting these products.

Employment in Canadian Fisheries, Vol. 1, Preliminary Survey, 46 p., processed, illus. Dominion Department of Fisheries, Ottawa, Canada, May 1949. A preliminary survey of information on the conditions of work in the fishing industry of Canada collected for the International Labor Office. It contains the Office's questionnaires, a summary of conditions of work in the fishing industry of Canada (wages, hours, social security, conditions of employment and welfare), and a discussion of Federal assistance to the fishing industry and position of fishermen under the workmen's compensation acts of the various Canadian Provinces.

Establishment of the Indo-Pacific Fisheries Council (Agreement between the United States of America and Other Governments), Treaties and Other International Acts Series 1895, Publication 3473, 7 p., printed, 5 cents. U. S. Department of State, Washington, D. C., 1949. (For sale by U. S. Government Printing Office, Washington, D. C.) Full text of agreement formulated at Baguio February 26, 1948, and entered into force November 9, 1948.

Fifth Annual Report, 1948, Maryland Board of Natural Resources, Annapolis, Md., 186 p., illus., tables. Contains, among others, annual reports of the Department of Tidewater Fisheries giving fisheries production for 1947; Department of Game and Inland Fish, which includes a report on inland fish management; Department of Research and Education giving data on crab, oyster, fish and other fisheries investigations; and a general review of the year 1947 listing new fisheries laws and regulations.

The Fisheries Conventions (Hearing on July 14, 1949, before a Subcommittee of the Committee on Foreign Relations, United States Senate, Eighty-First Congress, First Session, on the Ratification by the United States Government of the International Convention for the Northwest Atlantic Fisheries signed at Washington, February 8, 1949, Executive N; Convention with Mexico for the Establishment of an International Commission for the Scientific Investigation of Tuna, signed at Mexico City, January 25, 1949, Executive K; Convention for the Establishment of an Inter-American Tuna Commission, signed at Washington, May 31, 1949, Executive P), 131 p., with map, printed. Available only from the Senate Committee on Foreign Relations until exhausted. Contains the messages from the President transmitting the three conventions and the full texts of the conventions. In addition, it contains the various statements presented at the hearing.

"Fisheries of Norway Achieved New Record Catch During Past Year," by Shirley G. MacDonald, article, Foreign Trade, September 2, 1949, vol. vi, no. 143, pp. 516-19, illus. Department of Trade and Commerce, Ottawa, Canada. A review of the production and exports of the Norwegian fisheries. Also discusses the extension of trawler fishing in Norway.

Fresh and Frozen Fish (Report of the Secretaries of State and Commerce and of the United States Tariff Commission in Response to House Resolution No. 174, 81st Congress), 126 p., with tables, processed, distribution limited. U. S. Tariff Commission, Washington, D. C., September 1949. This report contains House Resolution No. 174; Section A deals with production, imports, exports, tariff status of fishery products, prices, and fishing industries in principal countries supplying the United States imports of fishery products; Section B discusses production, imports, exports, consumption and duties of fillets, together with factors influencing production and imports and factors affecting domestic and foreign cost of fillets; Section C deals with fresh or frozen fish (other than fillets); and Section D contains the conclusions and recommendations together with a general discussion on the impact of foreign competition and possible courses of action. (See page 26 of this issue for an abstract of the conclusions and recommendations.)

Handbuch del Fischkonservierung (Fish Canning Handbook). by Otto Wille, vol. III of a series (Der Fisch), in German, 732 p., with numerous tables, DM 35 (approx. \$8.00). Hans A. Keune-Verlag, Hamburg, Germany. Contains 27 chapters giving information and data on the worker in the fisheries; the science of fish preservation--machines and processes used; the preservation of fresh fish; the freezing, drying, smoking, pickling, and salting of fish; the packing of anchovies; canning of fish in oil and other methods of preservation.

The Maryland Crab Industry, 1948, by Lewis Eugene Cronin, Publication No. 76, 42 p., illus., printed. Chesapeake Biological Laboratory, Board of Natural Resources, Solomons Island, Maryland, May 1949. Beginning with 1948, this agency has begun to obtain complete statistics on the catch of blue crabs in Maryland. This bulletin contains 1948 statistics on catch per man per day by various gears in various areas. No attempt is made in this report to analyze the significance of the various catch records. Also included are the results of a poll of the Maryland crab packers and shippers in 1948, which gives for the first time a summarization of the thinking of a large part of the industry on many important questions.

Meat Selections of City Families, Commodity Summary No. 1 (Based on 1948 Food Consumption Surveys, Preliminary Reports 1 to 5), 9 p., processed, free. Bureau of Human Nutrition and Home Economics, Agricultural Research Administration, U. S. Department of Agriculture, Washington, D. C., August 1949. For a picture of urban food practices throughout the United States, 1,600 housekeeping families of two or more persons living in 68 cities were asked for information on their food consumption during one week in the spring of 1948, and approximately 250 housekeeping families of two or more persons gave similar data during the winter of 1948 in each of four cities (Birmingham, Buffalo, Minneapolis-St. Paul, and San Francisco), and the data was published as preliminary reports numbers 1 through 5. From the above reports, some figures on meat (including fish and shellfish) have been brought together in this publication.

"Methods of Estimating Total Runs and Escapements of Salmon," by George A. Rounsefell, article, Biometrics, June 1949, vol. 5, no. 2, pp. 115-126, illus., printed, \$1.00 per issue. American Statistical Association, Washington, D.C. Discusses a method for estimating the total run and the escapement in a salmon fishery, thus providing basic data necessary for intelligent management. It has been shown for one great river, the Fraser, that the size of each year's run is closely correlated with the number of spawners. It has also been shown that the total number of salmon that can be harvested from a run on a permanent basis cannot be increased beyond a certain point merely by increasing the number of spawners, unless either the spawners are so distributed over the watershed as to make better use of the available areas, or the environment of the nursery areas is changed.

"1948 Food Consumption Surveys; Nutritive Value of Family Diets, Four Cities, Winter 1948, I. "Average Values for Families Classified by Income, Birmingham, Ala., Buffalo, N. Y., Minneapolis-St. Paul, Minnesota, and San Francisco, Calif.," Preliminary Report No. 6, FE 620, 32 p., processed, 6/30/49; (Tables 1 to 4 present data on the average nutritive value per person and per nutrition unit per day of food consumed at home, Tables 5 to 24 present data on the average quantity of specified foods, including fish and shellfish, consumed at home per person and per household in a week and the percentage of households consuming these foods, and tables 25 and 26 show the contribution of specified groups of food to the total nutritive value of diets of all families studied in the four cities). Family Food Consumption in Four Cities, Winter 1948, A Summary Report, Preliminary Report No. 7, FE 749, 25 p., processed, September 1949. (A summary of preliminary reports numbers 1 to 4.) See Commercial Fisheries Review, March 1949, p. 93; July 1949, p. 63; and August 1949, p. 57. Available free from the Bureau of Human Nutrition and Home Economics, Agricultural Research Administration, U. S. Department of Agriculture, Washington 25, D. C.

Problems in Enumeration of Populations of Spawning Sockeye Salmon (1. "A Study of the Tagging Method in the Enumeration of Sockeye Salmon Populations," by Gerald V. Howard; 2. "A Mathematical Study of Confidence Limits of Salmon Populations Calculated from Sample Tag Ratios," by D. G. Chapman), Bulletin II, 85 p., printed. International Pacific Salmon Fisheries Commission, New Westminster, B. C., Canada, 1948. Since the use of tagging to determine the size of spawning stocks of the Fraser River sockeye was adopted by the Commission, many problems have arisen through its application in different types of streams which indicated that the original material had to be studied carefully with a view to determining as far as possible the limits of accuracy of the population measurements obtained by tagging. Accordingly, the data were subjected to a statistical analysis commensurate with their basic accuracy, and paper number one of this bulletin is a report on this analysis. Paper number two discusses the problems concerning the mathematical background of the various measurements of accuracy of calculated populations. A new solution worked out by the author which presents the advantages of a sound mathematical background as well as greater symmetry in the results is presented. The author brings together and compares the other methods that have been developed for determining confidence limits and in doing so has clarified many points left obscure in previous applications by defining the conditions under which different methods of calculation should be used.

Prospects for the 1949-50 Herring Fishing Season, by J.C. Stevenson, Circular No. 19, September 1949, 3 p., processed. Pacific Biological Station, Fisheries Research Board of Canada, Nanaimo, B. C. Contains a prediction of the success of the 1949-50 herring fishing season off British Columbia by districts.

Regulation and Investigation of the Pacific Halibut Fishery in 1948, Report of the International Fisheries Commission No. 14, 30 p., printed. Inter-

national Fisheries Commission, Seattle, Wash., 1949. A brief review of the Commission's administrative and investigational activities in 1948. The booklet contains data on the 1948 halibut fishery, including length of season, landings by area, incidental catch, condition of and changes in the composition of stocks, and marking experiments. It concludes with the text of the Convention between Canada and the United States for the preservation of the halibut fishery of the northern Pacific Ocean and Bering Sea signed at Ottawa, January 29, 1947, and the 1948 Pacific Halibut Fishery Regulations.

Report on the Fisheries of Scotland 1939-48, 112 p., printed, 2s. (approx. 28 cents). Scottish Home Department, Edinburgh, Scotland, 1949. (Available from His Majesty's Stationery Office, London, England). This report surveys the fishing industry of Scotland. It gives detailed data on conditions affecting the fishermen, fishing fleet, fisheries (herring, white fish, shellfish, salmon, etc.), production, prices, control of the industry, scientific investigations, and fishery harbors. Includes tables, graphs and detailed statistics.

"Story of Australian Fish Canning Industry," Fisheries Newsletter, July 1949, vol. 8, no. 4, complete issue devoted to this article, 24 p., illus., printed. The Commonwealth Fisheries Office, Dept. of Commerce and Agriculture, Sydney, Australia. Reviews the Australian fish canning industry. The publication contains a discussion of the achievements and prospects of the industry, and the production of canned fish by individual leading canneries. In addition, a directory of fish processors is included.

Summary of United States Foreign Trade in Foodstuffs and Allied Products for June 1948 and June 1949 and for the First Six Months of 1948 and 1949, by Helen B. Ingle, Foods and Related Agricultural Products, World Trade in Commodities Supplement, September 1949, vol. VII, part 6-7-8, suppl. no. 50, 17 p., processed. Office of International Trade, Department of Commerce, Washington 25, D. C. A summarized analysis of the United States imports and exports trade, including fishery products.

Transactions of the American Fisheries Society, 1947 (Seventy-Seventh Annual Meeting, Denver, Colorado, September 10-12, 1947), vol. 77, 370 p., printed, \$4.00. American Fisheries Society, Ann Arbor, Mich., 1949. Part I consists of the papers presented at the Seventy-Seventh Annual Meeting of the Society. Included are the following papers relating to commercial fisheries: "Some Trends in the Commercial Fisheries of Lake of the Woods, Minnesota," "Estimating the Fish Production of Great Slave Lake," "Reformation of Excised Fins of King Salmon Fingerlings and Its Effects on Recognition of Marked Adults," "Age and Growth of Lake Whitefish, Coregonus clupeaformis (Mitchill), in Lake Erie;" Part II is a report of the Symposium (Fish and Wildlife in Relation to Flood-Control and Navigation Developments and to the Elimination of Pollution of Public Waters). Part III reports on the business sessions of the Society.

Sea Turtles and the Turtle Industry (of the West Indies, Florida and the Gulf of Mexico, with Annotated Bibliography), by Robert M. Ingle and F. G. Walton Smith, special publication, 107 p., printed. The Marine Laboratory, University of Miami, Coral Gables, Fla., in cooperation with The Caribbean Research Council, August 1949. Several hundred papers, reports and personal communications have been abstracted by the authors and the essential information regarding the biology of the sea turtles and the condition of the industry is presented in summarized form in this publication. The sources are listed in the form of an annotated bibliography. Includes data on green, loggerhead, hawksbill, and leatherback turtles. Discusses the value and administration of the fishery in Florida, Bermuda, Bahamas, Cuba, Cayman Islands, Haiti, Puerto Rico, Virgin Islands, St. Kitts-Nevis, Antigua, Monserrante, St. Vincent, St. Lucia, Barbados, Grenada, Tobago, Trinidad, British Guiana, Panama, Venezuela, Costa Rica, Nicaragua, Honduras, Guatemala, British Honduras, and Mexico.

The Smelt, Capelin and Silverside, by R. A. McKenzie and L. R. Day, Circular, General Series, No. 15, August 1949, 4 p., processed. Atlantic Biological Station, Fisheries Research Board of Canada, St. Andrews, N. B., Canada. How the smelt, capelin and silverside can be distinguished by means of their different external features is the purpose of this circular. A short account of the distribution, life history, and economic importance of each fish is included.

Statistical Report of Fresh and Canned Fishery Products (Year 1948, Sardine Season 1948-49), Circular No. 23, 17 p. of tables, printed. Bureau of Marine Fisheries, Division of Fish and Game, San Francisco, Calif. The tables in this report show the landings of all fish and shellfish by main fishing areas, including the amount of pilchards and tuna landed. Included is the production of canned, cured and manufactured fishery products, as well as meal and oil.

"The Territorial Waters of Newfoundland," by Raymond Gushue, article, Canadian Journal of Economics and Political Science, August 1949, vol. XV, no. 3, pp. 344-52. The Canadian Political Science Association, Toronto, Ontario. Mr. Raymond Gushue of the Newfoundland Fisheries Board discusses various aspects of the "territorial waters" problem as it affects Newfoundland.

World Fisheries Year-Book and Directory 1949 (Incorporating the North Atlantic Fisheries Year-Book and the Herring Exporters Manual), edited by Harry F. Tysser, 457 p., printed, illus., 1 pound sterling (approx. \$2.80). British-Continental Trade Press Ltd., 222 Strand, London, England. The first part of the book consists of editorial articles on various subjects on the fisheries and fish-processing industries and trades, and a chapter "World Survey" which covers the fisheries of several of the more important countries. The second half of the book is a directory which lists names, addresses, and other particulars on firms in eight branches of the industry, grouped by countries. Includes exporters and curers, quick-freezers, trawler owners; importers and wholesalers; fish canners and preservers; machinery and equipment for fish processing, refrigeration, etc.; packing machinery, materials, etc.; supplies for fisheries--ship builders, repairers, nets, cordage, instruments and other equipment; fish byproducts (meal, oil, vitamins, etc.); cold storage and transport; and also gives a list of trade marks and names; buyers' guide and classified list of advertisers; and organizations and trade associations. The articles cover the following subject: International Commission on Fisheries; technical developments in fishing vessel construction; modern wireless for fishing vessels; the cooperative movement in the fishing industry; the control of bacteria in fish; the development of quick freezing in the fishing industry; processing of fish; problems of preserving fish for tropical countries; packing materials and shipping containers; land transport and air transport of fish; shellfish and crustaceans on the market; fish meal and oil production methods, fish oils; fish canning developments, and others.



Processing -- Miscellaneous Service Division

Illustrator -- Gustaf T. Sundstrom

Composer -- Jean Zalevsky
