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Number	Title
CFS-3505	Fish Sticks and Fish Portions, January-March 1964, 2 pp.
CFS-3507	Frozen Fishery Products, April 1964, 8 pp.
CFS-3517	Fish Meal and Oil, 1963 Annual Summary, 4 pp.
CFS-3521	Fish Meal and Oil, April 1964, 2 pp.
CFS-3525	Wisconsin Landings, March 1964, 2 pp.
CFS-3526	California Landings, March 1964, 4 pp.
CFS-3527	New Jersey Landings, March 1964, 3 pp.
CFS-3528	Virginia Landings, March 1964, 3 pp.
CFS-3529	New Jersey Landings, April 1964, 3 pp.
CFS-3530	Michigan Landings, March 1964, 3 pp.
CFS-3531	New York Landings, April 1964, 4 pp.
CFS-3532	Manufactured Fishery Products, 1962 Annual Summary, 8 pp.
CFS-3533	California Landings, April 1964, 4 pp.
CFS-3535	North Carolina Landings, May 1964, 4 pp.

Wholesale Dealers in Fishery Products, 1963 (Revised):

SL- 1	- Maine, 8 pp.
SL- 2	- New Hampshire, 1 p.
SL- 3	- Massachusetts, 11 pp.
SL- 5	- Connecticut, 1 p.
SL- 9	- Delaware, 1 p.
SL-10	- Maryland, 9 pp.
SL-11	- Washington, D. C., 1 p.
SL-12	- Virginia, 11 pp.
SL-14	- South Carolina, 3 pp.
SL-15	- Georgia, 2 pp.
SL-41	- Arkansas (Mississippi River and Tributaries), 2 pp.
SL-42	- Kentucky (Mississippi River and Tributaries), 1 p.
SL-43	- Alabama (Mississippi River and Tributaries), 1 p.
SL-44	- Nebraska (Mississippi River and Tributaries), 1 p.
SL-45	- Mississippi (Mississippi River and Tributaries), 1 p.
SL-48	- Indiana (Mississippi River and Tributaries), 1 p.
SL-49	- South Dakota (Mississippi River and Tributaries), 1 p.

Sep. No. 707 - The Guinean Trawling Survey.
Sep. No. 708 - Changes in Abundance of the Marine Worm, *Glycera dibranchiata*, Associated with Sea Water Temperature Fluctuations.

FL-558 - Index of Publications by the Branch of Technology, Bureau of Commercial Fisheries, 1955-59 inclusive, by F. Bruce Sanford and Helen E. Plasting, 33 pp., April 1964. Includes publications of Branch of Technology and its personnel, both Government and privately published.

SSR-Fish. No. 454 - Fur Seal Investigations, Pribilof Islands, Alaska, 1962, by Alton Y. Roppel and others, 107 pp., illus., December 1963.

SSR-Fish. No. 466 - Ecology of the Gulf of Mexico Commercial Sponges and its Relation to the Fishery, by John F. Storr, 79 pp., illus., March 1964. Discusses commercial sponges, reproduction, growth, cultivation, distribution, ecological relationships, and disease. Information on the present status of the sponge industry, commercial sponge production, and the structure of the ocean bottom in sponging areas is also included.

America Goes Fishing, Conservation Note 14, 7 pp., illus., April 1964.

Annual Report of the Commissioner, Fish and Wildlife Service, to the Secretary of the Interior, 1963, 72 pp., illus., printed, 1964. (Reprinted from the 1963 Annual Report of the Secretary of the Interior for the Fiscal Year ended June 30, 1963, pp. 281-348.) Summarizes the various activities of the Service. Describes the Bureau of Commercial Fisheries research and development programs, participation in international oceanographic studies, developments in foreign fisheries and trade, services to industry, Columbia River development program, educational activities, fur-seal operations, commissioning of the Albatross IV, and construction of an oceanographic laboratory at La Jolla, Calif. Also covers activities of the Bureau of Sport Fisheries and Wildlife, including the management of wildlife and sport fishery resources, wildlife and fishery research, and pesticides studies.

Commercial Fisheries of the Pacific Coast, Conservation Note 15, 8 pp., illus., April 1964. Describes fisheries for salmon, pelagic fish, groundfish, and shellfish. Discusses "market fish" sold fresh on the Pacific Coast.

Extent of Acid Mine Pollution in the United States Affecting Fish and Wildlife, by Edward C. Kinney, Circular 191, 32 pp., illus., June 1964.

Fishery Research Biological Laboratory, Galveston, Fiscal Year 1963, Circular 183, 11 pp., illus., processed, 1964. Research at the Bureau of Commercial Fisheries Biological Laboratory in Galveston concerns shrimp, estuaries, and industrial bottomfish. It is conducted under four broad programs: (1) shrimp fishery (which includes four research contracts); (2) estuarine; (3) physiology and behavior; and (4) industrial fishery. Each of those programs is subdivided into projects. This report deals with progress in project research during fiscal year 1963. Since this is a progress report, the findings recorded are preliminary in nature.

Press in Sport Fishery Research, 1963, Circular 188, 188 pp., illus., March 1964. Discusses the work during 1963 of the U. S. Bureau of Sport Fisheries and Wildlife disease laboratories, fish nutrition laboratories, California-Nevada sport fishery investigations, Arkansas Fish Farming Experimental Station, fish-pesticide laboratory, and marine laboratories; also reservoir investigations.

Chronic Effects of DDT on Cutthroat Trout, by John Allison and others, Research Report 64, 30 pp., 1964.

THE FOLLOWING REPRINTS FROM FISHERY INDUSTRIAL RESEARCH, VOL. 2, 1963, ARE AVAILABLE FROM THE OFFICE OF INFORMATION, U. S. BUREAU OF WILDLIFE SERVICE, WASHINGTON, D. C. 20240.

Economic Factors Related to Lake Trout Quotas on Lake Superior, by Keith D. Brouillard, pp. 1-4, illus., 1964. In some fisheries, a quota on catch as a method of management has proved successful insofar as physical yield is concerned. This method, however, has been based primarily on biological concepts, with little concern for the economic aspects. The philosophy of management should include consideration of economic rent. This rent can be obtained by limiting costs--that is, effort--as well as by limiting production. The combination of a quota on catch and a limitation on amount of gear will produce both biological and economic benefits. The lake trout fishery on Lake Superior presents an opportunity to apply economic as well as biological principles to the management of an entire body of water. If both of these factors are considered in the regulation of the fishery, the industry will be strengthened in its long-term operations.

of Storage in Refrigerated Sea Water on Amino Acids and Other Components of Whiting (MERLUCCIIUS LINEARIS), by Edward H. Cohen and John A. Peters, pp. 5-11, illus., 1964.

of Publications--Division of Industrial Research, Branch, Year, and Author, 1955-61 Inclusive, by Virginia Whorley, pp. 43-84, 1964.

Age of Fish in Refrigerated Sea Water. 2--Quality Changes in Whiting as Determined by Organoleptic and Chemical Analyses, by Edward H. Cohen and John A. Peters, pp. 21-27, illus., 1964.

THE FOLLOWING MARKET NEWS LEAFLETS ARE AVAILABLE FROM THE MARKET NEWS SERVICE, U. S. BUREAU OF COMMERCIAL FISHERIES, RM. 510, 1815 N. FORT MYER DRIVE, ARLINGTON, VA. 22209.

Denmark's Fisheries, 1963, and 1964 Trends, 20 pp.

MNL-23 - Fisheries of Chile - Part II and Part III (Supplement)--Central and South Chile, 1961-1963, 21 pp.

MNL-44 - Iceland's Fishing Industry, 1963, 31 pp.

MNL-88 - Japan's Imports and Exports of Fisheries Products, 1961/1962, 62 pp.

THE FOLLOWING ENGLISH TRANSLATION OF A FOREIGN LANGUAGE ARTICLE IS AVAILABLE FOR REFERENCE ONLY FROM THE LIBRARY, U. S. DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. 20240.

Studies of the Redfish (SEBASTES MARINUS L.) from the Ecological and Fishery Research Standpoints. I--The Economic Importance of the Redfish; II--Determination of Age in the Redfish, by Adolf Kotthaus, 11 pp., processed. (Translated from the German, Berichte der Deutschen Wissenschaftlichen Kommission für Meeresforschung, vol. 12, no. 4, 1952.)

THE FOLLOWING ENGLISH TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ARE AVAILABLE ONLY FROM THE REGIONAL OFFICE, U. S. BUREAU OF COMMERCIAL FISHERIES, 101 SEASTIDE AVE., TERMINAL ISLAND, CALIF. 90731.

Comparison between Japanese and United States Can Prices, Translation Series No. 10, 4 pp., processed, June 1964. (Translated from the Japanese, Nihon Suisan Shimbum, May 29, 1964.)

First Three-Year Plan to Investigate the Atlantic Ocean Fishing Grounds by Research Vessels Operated by Prefectural Governments, 5 pp., illus., processed, May 1964. (Translated from Official Japanese Government document.) Objectives of the First Three-Year Plan are to collect (1) scientific data and materials on the tuna and spearfish of the Atlantic, (2) samples for systematic study, and (3) oceanographic data; study the distribution of the Atlantic Ocean tuna and spearfish based on data obtained on (a) oceanographic structure and on (b) spawning and early life history, growth, age, and food habits; and ultimately contribute to the analysis on resource fluctuations. This report outlines each year's plan of investigation.

Studies on the Race of GRYPHAEA GIGAS (Thunberg). 1--Local Variation in the Size of Prodissoconch, by Yataro Tanaka, Translation Series No. 8, 4 pp., illus., processed, May 1964. (Translated from the Japanese, The Venus, Japan Journal of Malacology, vol. 18, no. 2, November 1954.) A study of the size of an oyster found in Japan.

Symposium on Tuna Resource and Oceanography, Translation Series No. 9, 33 pp., processed, June 1964. (Translated from the Japanese, Maguro Gyogyo, no. 15, October 1963.) Covers Japanese views with regard to declining tuna hook catch rates, international regulation of the tuna fishery, management and research problems faced by the Japanese tuna fishermen and researchers, the Japanese Government's role, and the relationship of oceanography to tuna research.

THE FOLLOWING PUBLICATIONS ARE AVAILABLE ONLY FROM THE SPECIFIC OFFICE MENTIONED.

California Fishery Market News Monthly Summary, Part II - Fishing Information, May and June 1964, 12 and 8 pp. each, illus. (U.S. Bureau of Commercial Fisheries, Biological Laboratory, P. O. Box 6121, Pt. Loma Station, San Diego, Calif. 92100.) Contains sea-surface temperatures, fishing and research in-

formation of interest to the West Coast tuna-fishing industry and marine scientists; for the months indicated.

(Chicago) Monthly Summary of Chicago's Wholesale Market Fresh and Frozen Fishery Products Receipts, Prices, and Trends, May 1964, 18 pp. (Market News Service, U.S. Fish and Wildlife Service, U.S. Customs House, 610 S. Canal St., Rm. 1014, Chicago, Ill. 60607.) Receipts at Chicago by species and by states and provinces for fresh- and salt-water fish and shellfish; and weekly wholesale prices for fresh and frozen fishery products; for the month indicated.

Gulf of Mexico Monthly Landings, Production and Shipments of Fishery Products, May 1964, 8 pp. (Market News Service, U.S. Fish and Wildlife Service, Rm. 609, 600 South St., New Orleans, La. 70130.) Gulf States shrimp, oyster, finfish, and blue crab landings; crab meat production; LCL express shipments from New Orleans; wholesale prices of fish and shellfish on the New Orleans French Market; fishery imports at Port Isabel and Brownsville, Texas, from Mexico; Gulf menhaden landings and production of meal, solubles, and oil; and sponge sales; for the month indicated.

New England Fisheries--Monthly Summary, May 1964, 25 pp. (Market News Service, U.S. Fish and Wildlife Service, 10 Commonwealth Pier, Boston, Mass. 02210.) Review of the principal New England fishery ports. Presents data on fishery landings by ports and species; industrial fish landings and ex-vessel prices; imports; cold-storage stocks of fishery products in New England warehouses; fishery landings and ex-vessel prices for ports in Massachusetts (Boston, Gloucester, New Bedford, Provincetown, and Woods Hole), Maine (Portland and Rockland), Rhode Island (Point Judith), and Connecticut (Stonington); frozen fishery products prices to primary wholesalers at Boston, Gloucester, and New Bedford; and Boston Fish Pier and Atlantic Avenue fishery landings and ex-vessel prices by species; for the month indicated.

New York City's Wholesale Fishery Trade--Monthly Summary--April 1964, 18 pp. (Market News Service, U.S. Fish and Wildlife Service, 155 John St., New York, N. Y. 10038.) Includes summaries and analyses of receipts and prices on wholesale Fulton Fish Market, including both the salt- and fresh-water sections; imports entered at New York customs district; primary wholesalers' selling prices for fresh, frozen, and selected canned fishery products; marketing trends; and landings at Fulton Fish Market docks and Stonington, Conn.; for the month indicated.

(Seattle) Washington and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, June 1964, 8 pp. (Market News Service, 706 Federal Office Bldg., 909 First Ave., Seattle, Wash. 98104.) Includes Seattle's landings by the halibut and salmon fleets reported through the exchanges; landings of halibut reported by the International Pacific Halibut Commission; landings of otter-trawl vessels as reported by the Fishermen's Marketing Association of Washington; local landings by independent vessels; coastwise shipments from Alaska by scheduled and non-scheduled shipping lines and airways; imports from British Columbia via rail, motor truck, shipping lines, and ex-vessel landings; and imports from other countries through Washington customs district; for the month indicated.

THE FOLLOWING SERVICE PUBLICATIONS ARE FOR SALE AND ARE AVAILABLE ONLY FROM THE SUPERINTENDENT OF DOCUMENTS, U. S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C. 20402.

"An aid in the preparation of blood samples from fish," by S. F. Snieszko, article, Progressive Fish Culturist, vol. 25, no. 4, 1963, p. 174, printed.

"Evolution of recovery nets used in tests on fish passage through hydraulic turbines," by Frederick K. Cramer, article, Progressive Fish-Culturist, vol. 26, no. 1, 1964, pp. 36-41, printed.

"A survey of licensed commercial trout hatcheries in Ontario," by Hugh R. McCrimmon and A. H. Berst, article, Progressive Fish-Culturist, vol. 25, no. 4, 1963, pp. 187-192, printed.

MISCELLANEOUS PUBLICATIONS

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

AIRCRAFT SPOTTING:

"La détection des bancs de poissons par hélicoptère" (The detection of fish schools by helicopter), article France Pêche, no. 83, April 1964, pp. 49-51, 53-54, illus., printed in French, single copy 2,50 F. (about 52 U.S. cents). France Pêche, Boîte Postale 179, Lorient, France.

ALABAMA:

"Seafood industry brings wealth to Alabama," by George Allen, article, Alabama Conservation, vol. 34, no. 2, February-March 1964, pp. 25-27, illus., printed. Alabama Department of Conservation, 64 No. Union St., Montgomery, Ala. 36104. Discusses work of the State of Alabama in development of the oyster and shrimp industries.

ALASKA:

Alaska Commercial Fishery Operators, 1963, Statistical Leaflet No. 6, 22 pp., processed, April 1964. Department of Fish and Game, Subport Bldg., Juneau, Alaska.

Further Studies of the Afognak Lake System, by Eugene W. Roelofs, Informational Leaflet No. 41, 20 pp., illus., processed, May 27, 1964. Alaska Department of Fish and Game, Subport Bldg., Juneau, Alaska.

ALEWIFES:

"A critique of the scale method for determining the age of the alewife, Alosa pseudoharengus (Wilson)," by Brian J. Rothschild, article, Transactions of the American Fisheries Society, vol. 92, no. 4, 1963, pp. 409-413, printed. American Fisheries Society, 1400 New York Ave. NW., Washington, D. C. 20005.

ALGAE:

"Extractive compounds of marine algae (review)," by Kiichi Murata, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 29, February 1963, pp. 189-197, printed in Japanese. Japanese Society of Scientific Fisheries, Shiba-Kaigandori 6, Minato-ku, Tokyo, Japan.

ALLIGATORS:

The Sun Worshiper, by Percy Viosca, Jr., Wildlife Education Bulletin No. 25, 7 pp., illus., printed 1962.

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(Reprinted from Louisiana Conservationist, April 1960.) Louisiana Wild Life and Fisheries Commission, Wild Life and Fisheries Bldg., 400 Royal St., New Orleans 16, La. Discusses the differences between crocodiles and alligators, life history of the alligator, and commercial uses for its hide.

ANGOLA:

Relatorio e Contas do Banco de Angola, Exercicio de 1963 (Report and Accounts of the Bank of Angola, 1963 edition), 254 pp., printed in Portuguese. Impresso na Grafica Monumental, Limitada, Rua Neves Ferreira, 13, 1^o, Lisbon, Portugal. Includes chapters on fishery landings and products produced, export data, and details on exports of fish meal and other fishery products.

ANTI-DUMPING ACT:

Treasury proposes changes in investigation procedures under Antidumping Act of 1921," by Harry Bodansky, article, International Commerce, vol. 70, no. 20, May 18, 1964, pp. 12-13, printed, single copy 35 cents. Bureau of International Commerce, U. S. Department of Commerce, Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Proposed changes in Treasury Department regulations for conducting investigations under the Antidumping Act of 1921, as amended, were published in the Federal Register of April 23, 1964. Until June 22, interested parties were invited to comment in writing to the Commissioner of Customs.

AQUATIC WEEDS:

Chemical control of aquatic vegetation in relation to the conservation of fish and wildlife," by G. E. Burdick, article, Weed Abstracts, vol. 12, no. 2, 1963, 514, printed. British Weed Control Council, 58 Mark Lane, London, England.

Control of aquatic weeds," by C. M. Switzer, article, Weed Abstracts, vol. 12, no. 1, 1963, 167, printed. British Weed Control Council, 58 Mark Lane, London, England.

Control of Eurasian milfoil, Myriophyllum spicatum, in Lake Hopatcong, New Jersey," by A. W. Horrocks and R. F. Smith, article, Weed Abstracts, vol. 12, no. 2, 1963, 516, printed. British Weed Control Council, 58 Mark Lane, London, England.

Eurasian watermilfoil (Myriophyllum spicatum) in the Tennessee Valley," by G. Smith, article, Weed Abstracts, vol. 12, no. 1, 1963, 171, printed. British Weed Control Council, 58 Mark Lane, London, England.

Feasibility of controlling aquatic weeds with snails," by D. E. Seaman and W. A. Porterfield, article, Weed Abstracts, vol. 12, no. 1, 1963, 176, printed. British Weed Control Council, 58 Mark Lane, London, England.

Progress report on the field testing of various herbicides for aquatic weed control," by J. M. Cortell, article, Weed Abstracts, vol. 12, no. 2, 1963, 510, printed. British Weed Control Council, 58 Mark Lane, London, England.

Report on the Results Obtained by a New Method of Fertilization Tried out in the Marine Bay "Mijetskog Jezera," by Miljenko Buljan, Translation Series No. 326, 30 pp., printed, 1960. (Translated from the Serbo-Croatian, Acta Adriatica, vol. 6, no. 6, 1957, 46 pp.) Fisheries Research Board of Canada, Sir Charles Tupper Bldg., Riverside Dr., Ottawa, Canada.

"Results of experimental weed control experiments in Georgia farm ponds using simplified gravity flow techniques," by W. W. Thomaston, article, Weed Abstracts, vol. 12, no. 1, 1963, 175, printed. British Weed Control Council, 58 Mark Lane, London, England.

"The status and prospects in aquatic weed control," by F. L. Timmons, article, Weed Abstracts, vol. 12, no. 3, 1963, 757, printed. British Weed Control Council, 58 Mark Lane, London, England.

ARGENTINA:

Produccion Pesquera de la Republica Argentina, 1963 (Fishery Production in the Republic of Argentina, 1963), 114 pp., illus., processed in Spanish. Direccion General de Pesca y Conservacion de la Fauna, Departamento de Investigaciones Pesqueras, Secretaria de Estado de Agricultura y Ganaderia, Buenos Aires, Argentina.

BALTIC SEA:

"Izmeneniya zapasov promyslovykh ryb Baltiiskogo morya pod vliyaniem okeanologicheskikh faktorov (po dannym Sovetskikh issledovatelei)" (Changes in the Baltic Sea populations of commercially valuable fish under the influence of oceanological factors--based on data of Soviet scientists), by T. F. Dement'eva, article, Okeanologiya, vol. 3, no. 5, 1963, pp. 875-876, illus., printed in Russian. Okeanologiya, Akademiia Nauk SSSR, Moscow, U.S.S.R.

BIBLIOGRAPHIES:

A Partial Bibliography on the Economic Evaluation of Sport Fishing and Fisheries Resources, by William A. Dill, FAO Fisheries Circular No. 8, 8 pp., printed, 1963. Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy.

World List of Periodicals for Aquatic Sciences and Fisheries, FB/T19.1-Suppl. 1, 59 pp., processed in Spanish, French, and English, 1963. Biology Branch, Fisheries Division, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy. This is one of a series of bibliographic Technical Papers listing titles of publications on aquatic sciences and fisheries subjects.

BOTULISM:

"Botulism outbreak from smoked whitefish," article, Food Technology, vol. 18, January 1964, pp. 71-72, printed. The Garrard Press, 510 N. Hickory, Champaign, Ill.

"Radio-resistance of five strains of Clostridium botulinum in selected food products," by E. Wheaton, G. B. Pratt, and J. M. Jackson, article, Journal of Food Science, vol. 26, 1961, pp. 345-350, printed. Institute of Food Technologists, 510-522 N. Hickory St., Champaign, Ill.

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BRACKFISH-WATER FISHERIES:

Marshes and Men, by W. McFadden Duffy, Wildlife Education Bulletin No. 41, 15 pp., illus., printed 1962. Louisiana Wild Life and Fisheries Commission, Wild Life and Fisheries Bldg., 400 Royal St., New Orleans, La. 70130.

BRAZIL:

Considerações sobre Amostragem de Peixes Marinhos (II) (Considerations on the Sampling of Marine Fish--II), by H. Nomura, 26 pp., illus., printed in Portuguese with English summary, 1962. (Reprinted from Boletim do Instituto Oceanográfico, vol. 12, no. 1, pp. 7-32.) Instituto Oceanográfico, Universidade de São Paulo, São Paulo, Brazil. Sampling of "pescada-foguete," Macrodon ancylodon (weakfish) landed at Santos, São Paulo, to determine length distribution.

Considerações sobre Amostragem de Peixes Marinhos (III) (Considerations on the Sampling of Marine Fish--III), by H. Nomura, 7 pp., printed in Portuguese with English summary. (Reprinted from Revista Brasileira de Biologia, vol. 23, no. 1, June 1963, pp. 95-101.) Instituto Oceanográfico, Universidade de São Paulo, São Paulo, Brazil. Sampling of "corvina" or croaker (Micropogon furnieri) landed at Santos, São Paulo, to determine length distribution.

Length-Weight Tables of Some Fish Species from Southern Brazil, by H. Nomura, Oceanografia Biológica 1962 No. 2, 6 pp., printed in English with Portuguese summary. Instituto Oceanográfico, Universidade de São Paulo, São Paulo, Brazil.

BRINE SHRIMP:

Brine Shrimp Fishery, Little Manitou Lake, Saskatchewan, by Georges H. Imbeault, 30 pp., illus., printed, 1963. Canadian Department of Fisheries, Ottawa, Canada.

CALIFORNIA:

Statistical Report of Fresh, Canned, Cured and Manufactured Fishery Products for 1963, Circular No. 38, 15 pp., printed, 1964. Biostatistical Section, Marine Resources Operations, Department of Fish and Game, Sacramento, Calif. The published record of California's 1963 fresh and canned fishery products. Tables cover landings, imports of tuna, canned fish pack, receipts of sardines for canning, and other similar topics.

CANADA:

Fisheries Statistics, Alberta and Northwest Territories, 1962, Catalogue No. 24-212, 10 pp., processed in French and English, May 1964, 50 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada. Contains tables giving the value of fish landed in Alberta, 1955-62; and the quantity and value of fishery landings by lakes, 1961-62. Also presents tables showing value of fish landings in the Northwest Territories, 1955-61; quantity and value of fishery products by species, 1961-62; capital equipment used in the primary fishery operations; and the number of persons engaged in the fisheries.

Fisheries Statistics, Newfoundland, 1962, Catalogue No. 24-202, 26 pp., illus., processed in French and English, April 1964, 50 Canadian cents. Queen's

Printer and Controller of Stationery, Ottawa, Canada. Contains tables giving the value of fish and shellfish landed in Newfoundland, 1958-62; quantity and value of landings by species and fisheries areas, 1961/62; capital equipment used in the primary fishery operations; the number of persons engaged in the fisheries; and classification of fishing craft over, and under, 10 tons.

Fisheries Statistics, Prince Edward Island, 1962, Catalogue No. 24-203, 24 pp., illus., printed in French and English, May 1964, 50 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada. Consists of tables giving the quantity and value of fish landed on Prince Edward Island in 1961 and 1962; classification of fishing vessels by tonnage, type of gear used, length, and fisheries districts of Prince Edward Island, 1961/62; new capital investment in the commercial fishery of the Island during those years; number of fishermen; and persons engaged in the major fisheries.

Quebec and Atlantic Coast Fisheries; Main Problems and Prospects, by John Proskie, 9 pp., printed, 1964. Canadian Department of Fisheries, Ottawa, Canada. A paper presented at a symposium of fisheries at Laval University, Quebec, January 14, 1964.

Report of the Fisheries Development Committee, 178 pp., printed, 1964. Fisheries Development Committee, Charlottetown, Prince Edward Island, Canada.

Whales and Dolphins of the West Coast of Canada, by G. C. Pike and L. Giovando, Circular No. 68, illus., printed, March 14, 1963. Biological Station, Fisheries Research Board of Canada, Nanaimo, B. C., Canada.

CARIBBEAN:

Gulf and Caribbean Fisheries Institute, Proceedings of the 16th Annual Session, Miami, Florida, November, 1963, edited by James B. Higman, 163 pp., illus., printed, May 1964. Institute of Marine Science, University of Miami, 1 Rickenbacker Causeway, Miami, Fla. 33149. Contains papers presented at the 1963 Annual Session of the Gulf and Caribbean Fisheries Institute. The papers are grouped according to subject: the challenge to U.S. fisheries; shrimp research results; seafood and public health; current fisheries research; and Caribbean fisheries. "Why we need a 12-mile limit" is discussed in the paper presented at the first day's meeting.

CARP:

"Hybridization experiments in cyprinid fishes. 3--Reciprocal crosses between Pseudorasbora parva pumila and Gnathopogon elongatus elongatus," by R. Suzuki, article, Nihon Suisan Gakkai-shi, vol. 29, no. 5, May 1963, pp. 421-423. Japanese Society of Scientific Fisheries, Shiba-Kaigandori 6, Minato-ku, Tokyo, Japan.

"Vliyaniye razrezhennykh posadok na pitaniye i rost molo lodi karpa" (Effect of low stocking densities on the food and growth of carp), by V. L. Grimal'skii and S. N. Tyutyunik, article, Trudy Kishinevsk, vol. 25, 1961, pp. 121-132, printed in Russian. Akademii Nauk S.S.S.R., Moscow, U.S.S.R.

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CHEMICAL COMPOSITION:

"Variations in chemical composition in some commercial fishes from the south of Brazil," by K. Watabe, article, Nihon Suisan Gakkai-shi, vol. 29, no. 5, May 1963, pp. 469-474. Japanese Society of Scientific Fisheries, Shiba-Kaigandori 6, Minato-ku, Tokyo, Japan.

"Studies of the deepwater cisco population of Lake Michigan," by Stanford H. Smith, article, Transactions of the American Fisheries Society, vol. 93, no. 1, 1964, pp. 155-163, printed. American Fisheries Society, 1404 New York Ave. NW., Washington, D. C. 20005.

"Study of Eel River Cove, N. B., Softshell Clam (MYA arenaria) Population," by J. S. MacPhail, II pp., Journal of Biological Sciences, printed, 1964. Biological Station, Fisheries Research Board of Canada, St. Andrews, N. B., Canada.

"Parazitofaune molodi treski v Barentsevom more" (Parasites of young cod in the Barents Sea), by Yu. Polyanskii and I. V. Kulemina, article, Vestnik Leningradsk. Univ. Ser. Biol., vol. 18, no. 15:3, 1963, pp. 12-21, illus., printed in Russian with English summary. Vestnik Leningradsk. Univ. Ser. Biol., Leningrad University, Leningrad, U.S.S.R.

STORAGE:

"Zamrozenie Zamorozhenoi Ryby (Storage of Frozen Fish)," edited by D. G. Riutov, 56 pp., illus., printed in Russian, 1963, 24 Kopecks (about 27 U.S. cents). Gosudarstvennoe Izdatel'stvo Torgovoi Literatury, Moscow, U.S.S.R. Discusses characteristics of changes in stored fish; and indexes of quality analysis and methods for obtaining them. Also covers in detail the storage of sturgeon, herring (Clupeidae), and other species such as ocean perch and horse mackerel.

--Milan A. Kravanja

CONSUMER PREFERENCES:

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pelagic fisheries. Presents a number of statistical tables showing fishing effort and cod catches from the North Sea in 1961/62; fishing effort and cod and haddock catches landed by British vessels from Faroes, 1961/62; herring fishery, catch per unit of effort; catch data for the sprat fishery; and other similar data.

Scottish Sea Fisheries Statistical Tables, 1962, 51 pp., printed, 1963, 5s. 6d. (about 76 U.S. cents). Her Majesty's Stationery Office, 13a Castle St., Edinburgh 2, Scotland. Contains 27 statistical tables showing quantity and value of fish landed and processed, number of vessels and fishermen, and creek returns.

UNITED STATES FISHING INDUSTRY:

"An antiquated and fragmented U. S. fishing industry faces many problems," by Harlan C. Lampe, article, Maritimes, vol. 8, no. 2, Spring 1964, pp. 1-3, illus., printed. Graduate School of Oceanography, University of Rhode Island, Kingston, R. I. "Few countries in the world other than us can afford the luxury of a declining fishing industry. . . . In sum, the fishing industry is a collection of people and firms, buying, selling and producing fish. The interest of the groups in this collection are not common, and important economic forces tend to tear the industry into its component parts. Only in the area of market development and quality improvement does one find reasonable common cause. However, without cooperative effort among all groups in the industry, even this will only slowly be achieved," states the author.

U.S.S.R.

Soviet Fisheries Investigations in the Northwest Atlantic, edited by Yu. Yu. Marti, OTS 63-11102, 377 pp., illus., processed, 1963, \$3.75. (Translated from the Russian, Sovetskie Rybokhozyaistvennye Issledovaniya v Severo-Zapadnoi Chasti Atlanticheskogo Okeana.) Office of Technical Services, U. S. Department of Commerce, Washington, D. C. 20230.

VIET-NAM:

Marine Fisheries Statistics of Vietnam, 1962, compiled by Z. Tokagi and K. Torikai, 51 pp., illus., printed in Vietnamese and English. Division of Agriculture & Natural Resources, United States Operations Mission to Vietnam, U.S. Embassy, Saigon, Vietnam. This booklet presents tables on fisheries of that country's 20 coastal provinces, based on data for 1960 plus results of subsequent on-the-spot surveys. Included are tables and graphs on number of fishermen's households and population by province; fishing boats by year, tonnage, and province; fish catch by year, province, and fishing method; and other topics. Photos and maps add interest to this report.

WALLEYED PIKE:

"The movements of walleyes tagged as yearlings in Lake Erie," by David R. Wolfert, article, Transactions of the American Fisheries Society, vol. 92, no. 4, 1963, pp. 414-420, printed. American Fisheries Society, 1404 New York Ave., NW. Washington, D.C. 20005.

WASHINGTON:

Fisheries Research Papers, vol. 2, no. 3, March 1964, 102 pp., illus., printed. Washington Department of

Fisheries, Rm. 115, General Administration Bldg., Olympia, Wash. Contains, these articles: "The distribution, size, time and current preferences of a ward migrant chinook salmon in the Columbia and Snake Rivers," by Edward M. Mains and John M. Smith; "The relationship of age to length in Puget Sound resident chinook salmon," by J. E. Lasater and Frank Haw; "Maturation, gestation, and birth of fish (Sebastes) from Washington and adjacent waters," by Allan C. Delacy, Charles R. Hitz, and Robert L. Dryfoos; "Notable migrations of sablefish tagged in Puget Sound," by Nicholas Pasquale; and "Growth and ring formation of Washington razor clams," by Herb C. Tegelberg.

Washington State Shellfish, 15 pp., illus., printed, 1964. Washington State Department of Fisheries, 115, General Administration Bldg., Olympia, Wash. Contains sections describing oysters, Pacific razor clams, hardshell clams, shrimp, Dungeness crab, public beaches in Washington, and digging techniques for obtaining shellfish. Also included is a statement of regulations governing the digging of shellfish in the State.

WATER RESOURCES:

Is the Sea Inexhaustible?, by Percy Viosca, Jr., 7 pp., printed. Louisiana Wild Life and Fisheries Commission, Wild Life and Fisheries Bldg., 400 Royal Street, New Orleans, La. 70130.

WEST AFRICA:

Problemes et perspectives de l'organisation des économies de peche maritime dans les états de l'Afrique occidentale en 1962 (Problems and Observations of the Economic Organization of Marine Fisheries in West African Countries, 1962), by F. Demenge, 66 pp., illus., printed in French, 1963. Printed from Bulletin de la Section de Géographie, vol. 75, 1962, pp. 219-284. Section de Géographie, Comité des Travaux Historiques et Scientifiques, Ministère de l'Éducation Nationale, Paris, France.

WHALE-MEAT MEAL:

"Whale meat meal," by G. Ahman, article, Vara Natur, vol. 33, 1962, pp. 97-98, printed in Swedish. Sveriges Palsdjur Suppfodares Rikssorbund, Fuglgatzen 4, Stockholm, Sweden.

WHALES:

"A Review of Japanese whale marking in the North Pacific to the end of 1962, with some information on marking in the Antarctic," by Hideo Omura and Ohsumi, article, Norsk Hvalfangst-Tidende (The Norwegian Whaling Gazette), vol. 53, no. 4, April 1963, pp. 90, 92-112, illus., printed. Hvalfangerforening Sandefjord, Norway. Reviews Japanese whale marking in the North Pacific since 1949, and in the Antarctic during the 1955/56-1961/62 seasons. Includes several statistical tables showing number of whales marked, recovery of marks, and recapture of whales.

WORLD PRODUCTION:

"Marine fish production: A world-wide view," by Idyll, article, Proceedings of the International Congress of Zoology, vol. 16, no. 4, 1963, pp. 330-331, printed. Secretary, Permanent Committee of International Zoological Congresses, 105 Blvd. Raspail, Paris 6, France.

