



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.
 SSR.- FISH. SPECIAL SCIENTIFIC REPORTS--FISHERIES (LIMITED DISTRIBUTION).
 SEP.- SEPARATES (REPRINTS) FROM COMMERCIAL FISHERIES REVIEW.

Number	Title
CFS-2087	- Texas Landings, May 1959, 3 pp.
CFS-2088	- Frozen Fish Report, June 1959, 8 pp.
CFS-2089	- Shrimp Landings, March 1959, 6 pp.
CFS-2094	- Alabama Landings, April 1959, 2 pp.
CFS-2098	- Rhode Island Landings, April 1959, 3 pp.
CFS-2101	- Fish Meal and Oil, June 1959, 2 pp.
CFS-2102	- North Carolina Landings, June 1959, 3 pp.
CFS-2103	- Georgia Landings, June 1959, 2 pp.
CFS-2104	- New Jersey Landings, June 1959, 3 pp.
CFS-2105	- South Carolina Landings, June 1959, 2 pp.
CFS-2106	- Shrimp Landings, April 1959, 6 pp.
CFS-2107	- Florida Landings, June 1959, 7 pp.
CFS-2108	- Frozen Fish Report, July 1959, 8 pp.
CFS-2109	- Maine Landings, June 1959, 3 pp.
CFS-2112	- Fish Sticks and Portions, April-June 1959, 3 pp.
CFS-2113	- Massachusetts Landings, May 1959, 5 pp.
CFS-2117	- Rhode Island Landings, May 1959, 3 pp.
CFS-2122	- Texas Landings, June 1959, 3 pp.
CFS-2131	- Louisiana Landings, 1958 Annual Summary, 4 pp.
CFS-2135	- Rhode Island Landings, June 1959, 3 pp.
FL-449	- Organizations and Officials Concerned with the Commercial Fisheries, 1959, 19 pp.
FL-478h	- Canned Fish Consumer Purchases by Family Characteristics (October 1958-March 1959), 53 pp., illus., August 1959.

This information is collected as part of a broad marketing research program directed toward improving and expanding the canned tuna, salmon, and sardine markets. It is projected from a nationwide consumer panel of approximately 6,000 families representing 22,000 persons. The data represent estimated purchases of canned fish by household consumers only. This report summarizes data on household consumer purchases of canned tuna, salmon, and sardines for the 6 months

period, October 1958-March 1959. It is developed from data appearing in the current series of monthly reports entitled Canned Fish Consumer Purchases. The data are based on reports covering 26 full weeks, whereas monthly data are derived from reports covering 4-week periods. The purpose of this report is to provide additional information concerning buying practices of households as related to regions, city-size locations, and other socio-economic factors.

Wholesale Dealers in Fishery Products, 1959 (Revised):

- SL- 6 - New York Coastal Area.
 SL-24 - Minnesota (Lakes Area).
 SL-34 - Wisconsin (Mississippi River and Tributaries).
 SL-36 - Iowa (Mississippi River and Tributaries).

SSR-Fish. No. 298 - Leading Adult Squawfish (*Ptychocheilus oregonensis*) Within an Electric Field, by Galen H. Maxfield, Kenneth L. Liscom, and Robert H. Lander, 19 pp., illus., April 1959.

Sep. No. 562 - Effect of Radiation Pasteurization on the Storage Life and Acceptability of Some North Atlantic Fish.

Sep. No. 563 - Observations on Trawl-Door Spread and a Discussion of Influencing Factors.

Sep. No. 564 - Research in Service Laboratories (October 1959): Contains these articles--"Possible Atomic Energy Commission Assistance of Research on Radiation Preservation of Fish," "Optimum Level of Menhaden Fish Meal and Solubles as Sources of Growth Factors in Broiler Diets," "Supplementary Effect of Fish Meal and Fish Solubles in Chick Diets," "Fish Meal as a Source of Unknown Growth Factor and High-Quality Protein," "Feed Formulation Utilizing a High-Speed Digital Computer," and "Gas Chromatographic Studies of Fish Spoilage."

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

(Chicago) Monthly Summary of Chicago's Fresh and Frozen Fishery Products Receipts and Wholesale Market Prices, July 1959, 13 pp. (Market News Service, U. S. Fish and Wildlife Service, 565 W. Washington St., Chicago 6, Ill.) Receipts at Chicago by species and by states and provinces for fresh- and salt-water fish and shellfish; and wholesale prices for fresh and frozen fishery products; for the month indicated.

Monthly Summary of Fishery Products Production in Selected Areas of Virginia, North Carolina

and Maryland, August 1959, 4 pp. (Market News Service, U. S. Fish and Wildlife Service, 18 So. King St., Hampton, Va.) Fishery landings and production for the Virginia areas of Hampton Roads, Lower Northern Neck, and Eastern Shore; the Maryland areas of Crisfield, Cambridge, and Ocean City; and the North Carolina areas of Atlantic, Beaufort, and Morehead City; together with cumulative and comparative data; for the month indicated.

New England Fisheries--Monthly Summary, July 1959, 22 pp. (Market News Service, U. S. Fish and Wildlife Service, 10 Commonwealth Pier, Boston 10, Mass.) Reviews the principal New England fishery ports, and presents food fish 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 landings and ex-vessel prices for fares landed at the Boston Fish Pier and sold through the New England Fish Exchange; for the month indicated.

Progress Report on Alaska Fisheries Management and Research, 1958, 34 pp., illus., processed. (U. S. Fish and Wildlife Service, Bureau of Commercial Fisheries, Juneau, Alaska.) Describes the accomplishments of the Alaska Region of the Bureau of Commercial Fisheries during 1958. The report is divided into two parts; the first part presents highlights of 1958 Alaska salmon fishery; the second reviews the marine fisheries. It presents information and statistical data on the salmon fisheries of Southeastern Alaska, Yakutat, Copper River-Bering River, Yakataga, Prince William Sound, Cook Inlet, Kodiak, Chignik, Alaska Peninsula, Bristol Bay, and Yukon River and Arctic Area. The review of the marine fisheries describes the fisheries for herring, crab, shrimp, and clam. A table is also included showing the salmon pack for 1958 by area.

(Seattle) Washington, Oregon, and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, July 1959, 10 pp. (Market News Service, U. S. Fish and Wildlife Service, Pier 42 South, Seattle 4, Wash.) Includes landings and local receipts, with ex-vessel and wholesale prices in some instances, as reported by Seattle and Astoria, (Ore.) wholesale dealers; also Northwest Pacific halibut landings; and Washington shrimp landings; for the month indicated.

THE FOLLOWING TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ARE NOT FOR GENERAL DISTRIBUTION. WRITE TO U. S. FISH AND WILDLIFE SERVICE, BUREAU OF COMMERCIAL FISHERIES, FISHERY BIOLOGICAL LABORATORY, HONOLULU, HAWAII, FOR INFORMATION.

Fishing Ground of Goshumagro (Australian Bluefin) and the Fishing Grounds of Bigeye and Yellowfin in the Eastern Equatorial Sea Area, by Tadao Kamimura, 7 pp., processed, translated from Japanese. (Reprinted from Tuna Fishing, No. 53, October 1958, pp. 27-32.)

On Estimating Tuna Fishing Conditions in the North Pacific Ocean, by Akira Suda, 7 pp., processed, translated from Japanese. (Reprinted from Tuna Fishing, no. 64, November 10, 1958, pp. 27-31.)

On the Mechanism of Variation in Water Temperature and Chlorinity of Upper Layer in the Seas Southwest off Kyushu and Around Nansei-Shoto, by Nobue Watanabe, translation from Japanese, 13 pp., illus., processed. (Reprinted from Bulletin of Tokai Regional Fisheries Research Laboratory, no. 21, August 1958, pp. 15-24.)

The Operating Conditions of Japanese Tuna Long-Liner Boats, Sea Currents and the Fishing Condition of Yellowfin and Albacore in the Equatorial Waters of the Atlantic Ocean, by Nagai, Nakagome, Kobayashi, and Shimosato, 8 pp., processed, translated from Japanese. (Reprinted from Tuna Fishing, no. 57, 1959, pp. 21-24.)

On the Ovaries of the Skipjack, KATSUWONUS PELAMIS (Linnaeus), Captured in the Fishing Grounds Along the Japanese Coast, by Masakazu Yao, 9 pp., processed, translated from Japanese. (Reprinted from Bulletin of the Tohoku Regional Fisheries Research Laboratory, no. 5, October 1955, pp. 43-52.)

On the Stomach Contents of the Skipjack, KATSUWONUS PELAMIS, by Hideyuki Hotta and Toru Ogawa, translation from Japanese, 30 pp., illus., processed. (Reprinted from Bulletin of Tohoku Regional Research Laboratory, no. 4, March 1955, pp. 62-82.)

A Study of Spawning of Skipjack in the Satsunan Sea Area, by Hiroshi Yabe, 25 pp., illus., processed, translated from Japanese. (Reprinted from Contributions of Fisheries Experimental Station, no. 115, 18 pp.)

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 ORGANIZATION OR PUBLISHER MENTIONED. DATA ON PRICES, IF READILY AVAILABLE, ARE SHOWN.

AGAR:

"Studies on the Antisepsis of Agar During the Manufacturing Process in the Mild Winter. II--On the Physicochemical Changes of Agar and its Intermediate Product, 'Tokoroten' in the Spoilage," by Kiroaki Fujusawa and Terutake Sukegawa, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 23, 1957, pp. 306-314, illus., printed in Japanese with English abstract, figures, and tables. Japanese Society of Scientific Fisheries, c/o Tokyo University of Fisheries, Shiba-kaigandori 6-chome, Tokyo, Japan.

ALMANAC:

The Nautical Almanac for the Year 1960, 276 pp., illus., printed, \$2. Department of Defense,

THESE PUBLICATIONS ARE NOT AVAILABLE FROM THE FISH AND WILDLIFE SERVICE, BUT USUALLY MAY BE OBTAINED FROM THE ORGANIZATION ISSUING THEM.

Washington 25, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.)

ANTIBIOTICS:

Antibiotics in Food Preservation, by Neil Tomlinson, Studies 1957 from the Stations of the Fisheries Research Board of Canada, FRB No. 505, printed. Fisheries Research Board of Canada, Ottawa, Canada.

ANTIOXIDANTS:

"Comparative Study of a Few Commercial Antioxidants," by Charles Pacquot and J. Mercier, article, Journal of the American Oil Chemists' Society, vol. 36, February 1959, pp. 20-21, printed. American Oil Chemists Society, 35 E. Wacker Drive, Chicago 1, Ill.

BIOCHEMISTRY:

"The Action of Pseudomonas on Fish Muscle. 3--Identification of Organisms Producing Fruity and Oniony Odors," by C. H. Castell, Maxine F. Greenough, and Jacqueline Dale, article, Journal of the Fisheries Research Board of Canada, vol. 16, January 1959, pp. 13-19, printed. Queen's Printer and Controller of Stationery, Ottawa, Canada.

"The Action of Pseudomonas on Fish Muscle. 4--Relation Between Substrate Composition and the Development of Odors by Pseudomonas fragi," by C. H. Castell and Maxine F. Greenough, article, Journal of the Fisheries Research Board of Canada, vol. 16, January 1959, pp. 21-31, printed. Queen's Printer and Controller of Stationery, Ottawa, Canada.

"Browning Reaction Initiated by Gamma Irradiation," by R. W. Liggett, C. E. Feagel, and J. Y. Ellenberg, article, Journal of Agricultural and Food Chemistry, vol. 7, April 1959, pp. 277-280, printed. Journal of Agricultural and Food Chemistry, American Chemical Society, 1801 K St., N. W., Washington 6, D. C.

"Determination Method of Freshness of Fish Muscle with Trimethylamine," by Susumu Horie and Yutaka Sekine, article, Journal of Tokyo University of Fisheries, vol. 42, 1956, printed. Tokyo University of Fisheries, Shiba-kaigandori 6-chome, Tokyo, Japan.

"On the Determination of Trimethylamine and Trimethylamine Oxide. A Modification of the Dyer Method," by Yoshiro Hashimoto and Tomotoshi Okaichi, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 23, no. 5, 1957, pp. 269-272, illus., printed in Japanese with English abstract, figures, and tables. Japanese Society of Scientific Fisheries, c/o Tokyo University of Fisheries, Shiba-Kaigandori 6-chome, Tokyo, Japan.

Thermal Copolymerization of Amino Acids to a Product Resembling Protein, by Sidney W. Fox, and Kaoru Harada, 1 p., illus., printed. (Reprinted from Science, vol. 128, no. 3333, November 14, 1958, p. 1214.) Oceanographic Institute and Chemistry Department, Florida State University, Tallahassee, Fla.

BIOLOGICAL RESEARCH:

Preliminary Report BROWN BEAR Cruise 144 off the Washington, Oregon, and Northern California Coasts, 18 July to 31 August 1956, by Herbert F. Frolander and John H. Lincoln with a section on "Geological Observation," by Thomas F. Budinger, 20 pp., illus., processed. University of Washington, Department of Oceanography, Seattle 5, Wash., November 1956.

CALIFORNIA:

"A Revised Check List of the Freshwater and Anadromous Fishes of California," by Leo Shapovalov, William A. Dill, and Almo J. Cordone, article, California Fish and Game, vol. 45, no. 3, July 1959, pp. 159-180, printed. California Department of Fish and Game, 722 Capital Ave., Sacramento 14, Calif.

CANADA:

British Columbia Salmon Spawning Report - 1958, 15 pp., processed. Department of Fisheries, 110 Georgia Street West, Vancouver 5, B. C., Canada, March 17, 1959.

CARP:

The Ecology and Use of Carp in Utah, by William F. Sigler, Bulletin 405, 63 pp., illus., printed. Utah State University, Logan Agriculture Experiment Station, December 1958, Logan, Utah.

CHUBS:

"Study Ecology and Food Habits of the Chubs (Leucichthys sp.) and Their Relation to the Ecology of Lake Michigan," by Silvestre V. Bersamin, article, Papers of the Michigan Academy of Science, Arts, and Letters, vol. 43, part 1, 1958, pp. 107-118, printed. Papers of the Michigan Academy of Science, Arts, and Letters, The University of Michigan Press, Ann Arbor, Mich.

CONCHS:

The Crown Conch (MELONGENA CORONA Gmelin); Its Habits, Sex Ratios, and Possible Relations to the Oyster, by Ralph R. Hathaway, 6 pp., processed. (Reprinted from Proceedings of the National Shellfisheries Association, vol. 48, 1958, pp. 189-193.) Oceanographic Institute, Florida State University, Tallahassee, Fla.

DEEP-SEA FISH:

"Rost i Vozrast GlukoVodnykh Ryb" (Age and Growth of Deep-Sea Fish), by E. B. Kulikova, article, Akademiia Nauk SSSR. Institut Okeanologii, vol. 20, 1957, pp. 347-355, printed in Russian. Akademii Nauk SSSR. Institut Okeanologii, Trudy., Moscow, U. S. S. R.

DIRECTORIES:

Marine Digest, Pacific Northwest Maritime, 1959 Directory, 372 pp., illus., printed, \$2. Marine Digest Publishing Co., 79 Columbia St., Seattle 4, Wash. Contains a world-wide shipping guide and indexed sections on Washington, Oregon, and British Columbia. Lists shippers and carriers in major ports along the Pacific Northwest coast.

ELECTROFISHING:

"The Development and Evaluation of Interrupted

THESE PUBLICATIONS ARE NOT AVAILABLE FROM THE FISH AND WILDLIFE SERVICE, BUT USUALLY MAY BE OBTAINED FROM THE ORGANIZATION ISSUING THEM.

Direct Current Electrofishing Equipment," by Max Dean Rollefson, article, Colorado Cooperative Fisheries Research Unit Quarterly Report, vol. 4, 1958, pp. 38-40, printed. Colorado Cooperative Fisheries Research Unit, 243 Forestry Bldg., Colorado State University, Fort Collins, Colo.

FACTORY TRAWLER:

"Quick-Freeze Factory Trawler 'Fairtry II'," article, Modern Refrigeration and Air Control News, vol. 62, no. 733, April 1959, p. 374, illus., printed. Modern Refrigeration and Air Control News, Maclaren House, 131 Great Suffolk Street, London S. E. 1, England. Describes the New Fairtry II (sistership of the revolutionary Fairtry I), which was launched early this year in England.

FACTORYSHIPS:

"Fairtry" Factory Fishing Fleet, supplement to Fishing News, no. 2401, April 24, 1959, 28 pp., illus., printed. Fishing News, Suite 27, 110 Fleet St., London, E. C. 4, England. A supplement devoted to articles concerning factory trawlers. Includes articles on "Famous Shipping and Whaling Company Pioneers Modern Factory Trawler"; "Fairtry Story is Told"; "How Problems Were Met and Improvements Made"; "Skipper Romyn Sums up His Experiences on Fairtry and Gives Frank Comment"; "Builders Give Full Technical Details of the New Fairtrys"; "Fairtry II Equipped with Diesel-Electric for Powering"; "Simons of Renfrew Have Specialized for Nearly a Century in Complicated 'Working' Ships"; "The Shipyard that Crossed the Atlantic"; "Extra Fish Meal Capacity Will Win More Money"; "Fish Factory Enlarged to Handle 30 Tons of Fish a Day"; "Special Log Gives Sensitive Accuracy in Speed and Distance"; "Fine Range of Equipment Provided to Find the Fish"; "Good Pay and Conditions Attract Good Men"; "Marketing on Merit Achieved Deserved Success"; and "Sound Refrigeration Ensures a Fine Product."

FARM PONDS:

"Fish for Pet Food from the Arkansas Farms," by Walter G. Jones, article, Petfood Industry, vol. 1, no. 8, August 1959, pp. 21-23, 47, illus., printed. Petfood Industry, Garden State Publishing Co., Sea Isle City, N. J.

FISH FLOUR:

Fish Flour: An Account of Its Properties by the Fishing Industry Research Institute, Cape Town, Memorandum No. 89, July 1958, 3 pp., printed. The Fishing Industry Research Institute, University of Cape Town, Rondebosch, C. P., Union of South Africa.

FISH MEAL:

"The Self-Heating of Fish Meal," by G. M. Dreosti and A. N. Rowan, article, Annual Report, Fishing Industry Research Institute, April-December 1956, vol. 10, pp. 26-28, printed. Fishing Industry Research Institute, Cape Town, Union of South Africa, 1957.

FISH OIL:

"Preparation of a Coating Material By Chlorination of Fish Oil. III--On the Fire-Retardant Property of the Product," by Kosaku Suzuki, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 24, nos. 6 and 7, 1958, pp. 515-518, illus., printed in Japanese with English abstract, figures, and table. Japanese Society of Scientific Fisheries, c/o Tokyo University of Fisheries, Shiba-kaigandori 6-chome, Tokyo, Japan.

FLORIDA:

A Data Report of Florida Gulf Coast Cruises, by Frank Chew, S. J. Bein, and J. H. G. Stimson, 122 pp., illus., printed. The Marine Laboratory, University of Miami, Miami 49, Fla. Contains hydrographic and chemical data collected during the 8 major cruises sponsored by the Florida State Board of Conservation during the two-year period beginning July 1955.

FOOD AND AGRICULTURE ORGANIZATION:

Catalogue of FAO Fisheries Publications, compiled by Patricia M. Andrews, FAO/59/4/3186, May 1959, 17 pp., processed. Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy. Lists periodicals; FAO fisheries studies; papers; separate publications; publications of the General Fisheries Council for the Mediterranean, Indo-Pacific Fisheries Council, and Latin American Fisheries Training Centers; reports on the Expanded Technical Assistance Program; and reprints.

Food and Agriculture Legislation, vol. VII, no. 1, 1958, Ceylon, XVI.2/57.1, 2 pp., printed, \$1. Columbia University Press, International Documents Service, 2960 Broadway, New York 27, N. Y.

A Standard Terminology and Notation for Fishery Dynamics, by S. J. Holt, J. A. Gulland, C. Taylor, and S. Kurita, FAO/59/5/3817, 4 pp., printed. (Reprinted from Journal du Conseil International pour l'Exploration de la Mer, vol. 24, 1959, pp. 239-242.) Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy. In view of the rapid increase in publications dealing with various aspects of fishery dynamics, the need was recognized at the Special Meeting held by the Research and Statistics Committee of the International Commission for the Northwest Atlantic Fisheries at Biarritz in March 1956, for standardization of the mathematical symbols for the most commonly used quantities. The basis for discussion was a review prepared by Gulland (1956, 1958); a system of notation was proposed, and provisionally accepted by the Commission at the 1956 Annual Meeting for use in its publications. After some deliberation, the 45th Statutory Meeting of the International Council for the Exploration of the Sea at Bergen in 1957 recommended the adoption by its member countries of the notation as finally amended. English is the basic language of the terminology but equivalents in German and Japanese were also accepted.

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FOOD SPOILAGE:

"The Effect of Several Antifungal Antibiotics on the Growth of Common Food Spoilage Fungi," by John B. Klis, Lloyd D. Witter, and Z. John Ordahl, article, Food Technology, vol. 13, February 1959, pp. 124-128, printed. Food Technology, The Garrard Press, 510 No. Hickory, Champaign, Ill.

FOOD TECHNOLOGY:

The Technology of Food Preservation, by Norman W. Desrosier, 431 pp., illus., printed. The Avi Publishing Co., Inc., Westport, Conn., 1959. A textbook which presents the elements of the technology of food preservation. It contains chapters on: food to preserve; acceptable food to eat; refrigerated storage of perishable commodities; food freezing; principles of food preservation by drying, canning, fermentation and pickling; and preservation of food as sugar concentrates, with chemical additives, and with ionizing radiation. Sections on fish cover canned fish, chemical preservation, cold storage, dehydration, and salting. A suggested reading list is presented at the end of each chapter which greatly expands each of the major subject areas. Also, an appendix contains a list of journals which cover the topics of the text.

FROZEN FOODS:

"Ultrasonic Defrosting of Frozen Foods," by A. L. Brody, article, Food Technology, vol. 13, February 1959, pp. 109-112, printed. Food Technology, The Garrard Press, 510 No. Hickory, Champaign, Ill.

GALVANOTAXIS:

"Die Galvanotaxis der Fische und ihre Auslösung auf Grund Unmittelbarer Irritabilität der Rumpfmuskulatur" (The Galvanotaxis of Fishes and its Release by Means of Direct Irritability of the Muscular System of the Body), by D. Spiecker, article, Zoologische Jahrbücher, Abt. 3, Allgemeine Zoologie und Physiologie, vol. 67, no. 2, 1957, pp. 229-260, printed in German. Zoologische Jahrbücher, Abt. 3, Allgemeine Zoologie und Physiologie, Jena, Germany.

GENERAL:

The Fertilization of Fishery Waters, by K. I. Ananiadis, 4 pp., processed, translated from the Greek. (Reprinted from Alieia, vol. 12, no. 134, August 1958, pp. 41-42.) Not for general distribution; on deposit at the Central Library, Department of the Interior, Washington 25, D. C.

On the Nature of Production in the Sea, D. H. Cushing, Fishery Investigations, series 2, vol. 22, no. 6, 43 pp., illus., printed, 10 s. (US\$1.40). Her Majesty's Stationery Office, York House, Kingsway, London W. C. 2, England, 1959.

GREAT LAKES:

Fishes of the Great Lakes Region, by Carl L. Hubbs and Karl F. Lagler, Bulletin No. 26, 269 pp., illus., printed. Cranbrook Institute of Science, Bloomfield Hills, Mich.

HERRING:

"The Content of Fat and Fat-Free Dry Matter in Winter Herring During the Years 1930-1956,"

by Einar Flood, article, Fiskeridirektoratets Skrifter Serie Teknologiske Undersøkelser, vol. 3, no. 5, 1958, pp. 1-9, printed in Norwegian. Director of Fisheries, Bergen, Norway.

"Fatness of Small Herring in the Bay of Fundy," by A. H. Leim, article, Journal of the Fisheries Research Board of Canada, vol. 15, November 1958, pp. 1259-1267, printed. Journal of the Fisheries Research Board of Canada, Queen's Printer and Controller of Stationery, Ottawa, Canada.

Oil and Cattle Food from Herrings, by Severin Sirnes, U. S. Patent 2, 832, 684, April 29, 1958, printed. U. S. Patent Office, Washington 25, D. C.

Sildarrannsóknir AEGIS Sumarid 1954 (Herring Investigations with the Research Vessel Aegir in the Summer 1954), by Jon Jonsson and Unnsteinn Stefansson, Fjölrit Fiskideildar Nr. 5, 42 pp., illus., processed in Icelandic with English summary. The University Research Institute, Department of Fisheries, Reykjavik, Iceland, 1955.

IMPORTS:

United States Imports of Merchandise for Consumption (Commodity by Country of Origin), Calendar Year 1958, Report No. FT 110, 168 pp., processed, \$1. Bureau of the Census, U. S. Department of Commerce, Washington, D. C., July 1959. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.) The import statistics include government as well as nongovernment shipments of merchandise (including fish and shellfish and fishery byproducts) from foreign countries to the United States.

INDIA:

Fisheries of the West Coast of India, edited by Dr. S. Jones, 130 pp., illus., printed. Central Marine Fisheries Research Station, Mandapam Camp, India, 1958. Contains a collection of articles on the varied aspects of Indian fisheries.

INSECTICIDES:

"Comparative Effects of the Insecticides DDT and Malathion on Young Atlantic Salmon," by Miles H. A. Keenleyside, article, Progress Reports of the Atlantic Coast Stations, no. 69, 1958, pp. 3-6, printed. Fisheries Research Board of Canada, Atlantic Fisheries Experimental Station, Halifax, Nova Scotia, Canada.

ISRAEL:

An Annotated List of the Decapod Crustacea of the Mediterranean Coast of Israel, with an Appendix Listing the Decapoda of the Eastern Mediterranean, by L. B. Holthuis and E. Gottlieb, Bulletin No. 18, 129 pp., illus., printed. (Reprinted from Bulletin of the Research Council of Israel, vol. 7B, No. 1-2, pp. 1-126. State of Israel, Ministry of Agriculture, Division of Fisheries, The Sea Fisheries Research Station, Haifa, Israel.

JAPAN:

Annual Report on the Fish Resources in Oct. 1951-Sept. 1952--Section 4, Bottom Fish, 144 pp., illus., printed in Japanese. Tonoku Regional

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Fisheries Research Laboratory, Hachinohe Branch, Hachinohe Aomori Pref., Japan, March 1954.

Annual Report on the Fish Resources in Oct. 1952-Sept. 1953--Section 4, Bottom Fish, 141 pp., illus., printed in Japanese. Tohoku Regional Fisheries Research Laboratory, Hachinohe Branch, Hachinohe Aomori Pref., Japan, October 1955.

Fisheries in Japan, by Y. Suzuki, 105 pp., illus., processed. Ministry of Agriculture and Forestry, Tokyo, Japan, 1959. A comprehensive report with many tables, which discusses recent developments in fisheries activities, fisheries production, fishing vessels, apparatus and equipment, fishing vessels equipped with refrigerators, superchargers, movable pitch propellers, wireless telephones and telegraphs, fish finders, fishing lights, synthetic fiber fishing nets and ropes, fishing ports, Japanese fishery statistical areas, types of gear, processing of fishery products, cold-storage, consumption of fishery products in Japan, exports, marketing, transportation of fishery products, activities of cooperatives, fisheries credits, accident insurance, labor problems, current status of marine fisheries, status of whaling, seaweed production, and fresh-water fish culture.

Journal of the Faculty of Fisheries, Prefectural University of Mie, vol. 2, no. 3, 125 pp., illus., printed in Japanese with English summary. Otanimachi, Tsu, Mie Prefecture, Japan, October 25, 1957. Contains "Study on the Small Trawl Net," by Chihiro Miyazaki.

LAW OF THE SEA:

"The Geneva Conference on the Law of the Sea and the Right of Innocent Passage Through the Gulf of Aqaba," by Leo Gross, article, The American Journal of International Law, vol. 53, no. 3, July 1959, pp. 564-594, printed. Executive Secretary, The American Society of International Law, 1826 Jefferson Place, N. W., Washington 6, D. C.

MACKEREL:

"Abundance, Distribution, and Mortality of Jack Mackerel, *Trachurus symmetricus*, Eggs and Larvae," by David Allen Farris, article, Dissertation Abstracts, vol. 19, no. 2, 1958, p. 391, printed. University Microfilms, University of Michigan, 313 No. 1st St., Ann Arbor, Mich.

MARINE ALGAE:

Some Marine Algae from Mauritius, by F. Børgesen, Final Part, Biologiske Meddelelser Danske Videnskabernes Selskab, Bind 23, no. 4, 34 pp., illus., printed. Ejnar Munksgaard, Publishers, 6 Norregade, Copenhagen K, Denmark, 1957.

MARINE BORERS:

Marine Borer Investigations (Submitted April 1958 to Bureau of Yards and Docks), U. S. Department of the Navy, Contract NOY-81879, Annual Report, January 1958 to December 1958, 47 pp., illus., processed. The Marine Laboratory, University of Miami, #1 Rickenbacker Causeway, Miami 49, Fla.

MARINE RESOURCES:

Marine Resources, by Milner B. Schaefer and Roger Revelle, 37 pp., illus., printed. (Reprinted from Natural Resources, 1959, pp. 73-109.) Scripps Institution of Oceanography, La Jolla, Calif. The existing and latent resources of the sea are many and varied; their rational development and utilization offer a technical, economic, and social challenge. This report considers some of these resources and some of the problems that need to be solved to make full use of them. Subjects covered include: nature of marine resources; kinds of marine resources--living resources, petroleum and natural gas under the continental shelves, minerals on the sea floor and in the water, ocean transportation and defense, waste disposal, recreation, and water from the sea; some problems in the development of marine resources--increasing the harvest of marine food resources, conservation of the living resources of the sea, legal and economic problems, international problems, and domestic conflicts over the utilization of resources.

MARINE WORMS:

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consist of a series of morning lectures (to be printed in book form shortly after the Congress) and concurrent afternoon seminars. This volume of summaries in English, with abstracts in a second language, follows the five general topics of the Congress--History of the Oceans, Populations of the Sea, The Deep Sea, Boundaries of the Sea, and Cycles of Organic and Inorganic Substances in the Sea.

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