



FISH AND WILDLIFE SERVICE PUBLICATIONS

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CFS - CURRENT FISHERY STATISTICS OF THE UNITED STATES.
 FL - FISHERY LEAFLETS.
 MNL - REPRINTS OF REPORTS ON FOREIGN FISHERIES.
 SEP. - SEPARATES (REPRINTS) FROM COMMERCIAL FISHERIES REVIEW.
 SL - STATISTICAL LISTS OF DEALERS IN AND PRODUCERS OF FISHERY PRODUCTS AND BYPRODUCTS.
 SSR. - FISH. - SPECIAL SCIENTIFIC REPORTS--FISHERIES (LIMITED DISTRIBUTION).

Number	Title
CFS-3214	- Shrimp Landings, November 1962, 8 pp.
CFS-3258	- Massachusetts Landings, March 1963, 7 pp.
CFS-3259	- Massachusetts Landings, April 1963, 7 pp.
CFS-3309	- Texas Landings, 1962 Annual Summary, 6 pp.
CFS-3320	- Frozen Fishery Products, September 1963, 8 pp.
CFS-3325	- Great Lakes Fisheries, 1962 Annual Summary, 9 pp.
CFS-3332	- Fish Sticks and Fish Portions, July-September 1963, 2 pp.
CFS-3333	- Maryland Landings, August 1963, 4 pp.
CFS-3334	- Virginia Landings, August 1963, 4 pp.
CFS-3335	- Louisiana Landings, August 1963, 3 pp.
CFS-3336	- Georgia Landings, September 1963, 3 pp.
CFS-3337	- North Carolina Landings, September 1963, 4 pp.
CFS-3338	- Michigan Landings, July 1963, 3 pp.
CFS-3339	- Mississippi Landings, August 1963, 3 pp.
CFS-3341	- South Carolina Landings, September 1963, 3 pp.
CFS-3342	- Texas Landings, April 1963, 3 pp.
CFS-3343	- Texas Landings, May 1963, 3 pp.
CFS-3347	- Rhode Island Landings, August 1963, 3 pp.
CFS-3348	- Maine Landings, August 1963, 4 pp.
CFS-3349	- Fish Meal and Oil, September 1963, 2 pp.
CFS-3350	- Florida Landings, September 1963, 8 pp.
CFS-3351	- Michigan Landings, August 1963, 3 pp.
CFS-3353	- Chesapeake Fisheries, 1962 Annual Summary, 7 pp.
CFS-3354	- Maryland Landings, September 1963, 4 pp.
CFS-3355	- Ohio Landings, August 1963, 3 pp.
CFS-3359	- Alabama Landings, August 1963, 4 pp.
CFS-3364	- Shrimp Landings, July 1963, 7 pp.

Wholesale Dealers in Fishery Products (Mississippi River and Tributaries), 1962 (Revised):

SL-32 - Minnesota, 2 pp.
 SL-36 - Iowa, 2 pp.

Sep. No. 698 - Mechanizing the Blue Crab Industry - Part III - Strengthening the Industry's Economic Position.

Sep. No. 699 - Foreign Fisheries Briefs.

FL-455 - Blue Sac Disease of Fish (Also Known as Dropsy, Yolk Sac Disease and Hydrocoele Embryonalis), by Ken Wolf, 5 pp., illus., revised May 1963.

FL-553 - Delicatessen Fish Products, by Norman D. Jarvis, 7 pp., illus., printed, August 1963. Presents recipes for the preparation of large quantities of fish salads, fish and crab cakes, marinated salmon, and other fish dishes.

FL-556 - Saltonstall-Kennedy Act, as Amended (an excerpt from Title 15 of the United States Code), 4 pp., September 1963. Contains Sec. 713c-3. Provides for the promotion of the free flow of domestically-produced fishery products.

FL-557 - Fish and Wildlife Act of 1956, as Amended (an excerpt from Title 16 of the United States Code), 10 pp., September 1963.

SSR-Fish. No. 414 - Zooplankton Volumes Off the Pacific Coast, 1959, by James R. Thraikill, 79 pp., illus., processed, April 1963.

SSR-Fish. No. 447 - The Spiny Dogfish (*Squalus acanthias*) in the Northeastern Pacific, by Dayton L. Alverson and Maurice E. Stansby, 28 pp., illus., processed, July 1963.

SSR-Fish. No. 465 - Stream Catalog of Southeastern Alaska, Regulatory Districts Nos. 3 and 4, edited by Russell F. Orrell, Carl Rosier, and Lyle R. Simpson, 239 pp., illus., processed, August 1963.

Index of Fishery Biological Papers by U. S. Fish and Wildlife Service Authors Appearing in Nongovernmental Publications, 1940-56, by Lola T. Dees, Circular 151, 140 pp., illus., 1963.

Let's Get Hot with Cool Tuna, Load Up on These Hot Selling Tips for Cool Cash Returns, Special Fisheries Marketing Bulletin, 2 pp., illus., 1963.

Quick Cool Tuna for Long Hot Summer, Take It Easy with Tuna, Special Fisheries Marketing Bulletin, 2 pp., illus., 1963.

THE FOLLOWING MARKET NEWS LEAFLETS ARE AVAILABLE FROM THE FISHERY MARKET NEWS SERVICE, U. S. BUREAU OF COMMERCIAL FISHERIES, WYATT BLDG., SUITE 611, 777 14TH ST. NW., WASHINGTON, D. C. 20005.

Number	Title
NL-10	Swedish Fisheries, 1962/63, 13 pp.
NL-12	Major Developments in Peru's Fishing Industry, 1962/63, 19 pp.
NL-13	India's Fishing Industry, 1962, 23 pp.
NL-85	Iran's Fishing Industry, 1963, 9 pp.
NL-86	Hong Kong Fishing Industry, 1962/63, 22 pp.

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

(Baltimore) Monthly Summary--Fishery Products, September 1963, 8 pp. (Market News Service, U. S. Fish and Wildlife Service, 103 S. Gay St., Baltimore, Md. 21202.) Receipts of fresh- and salt-water fish and shellfish at Baltimore by species and by states and provinces; total receipts by species and comparisons with previous periods; and wholesale prices for fresh fishery products on the Baltimore market; for the month indicated.

California Fishery Market News Monthly Summary, Part I - Fishery Products Production and Market Data, October and November 1963, 18 pp. each. (Market News Service, U. S. Fish and Wildlife Service, Post Office Bldg., San Pedro, Calif. 90731.) California cannery receipts of tuna and tunalike fish and other species used for canning; pack of canned tuna, tunalike fish, mackerel, and anchovies; market fish receipts at San Pedro, Santa Monica, and Eureka areas; California and Arizona imports; canned fish and frozen shrimp prices; ex-vessel prices for cannery fish; for the months indicated.

California Fishery Market News Monthly Summary, Part II - Fishing Information, November 1963, 8 pp., illus. (U. S. Bureau of Commercial Fisheries, Biological Laboratory, P. O. Box 6121, Pt. Loma Station, San Diego 6, Calif.) Contains sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists; for the month indicated.

(Chicago) Monthly Summary of Chicago's Wholesale Market Fresh and Frozen Fishery Products Receipts, Prices, and Trends, October 1963, 13 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, October 1963, 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, November 1963, 21 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--October 1963, 19 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; for the month indicated.

Pacific Game Fishing Atlas, by James L. Squire, Circular 174, 28 pp., illus., printed, 1963. (Tiburon Marine Laboratory, U. S. Bureau of Sport Fisheries and Wildlife, P. O. Box 98, Tiburon, Calif. 94920.) A synoptic presentation of the most important marine fishing areas in California, Oregon, Washington, Alaska, and Hawaii. In addition to locating areas for the different kinds of game fish, the locations of surf fishing areas, kelp beds, artificial reefs, fishing piers and barges, ramps, and charter boat and rental skiffs are pinpointed.

Halibut and Troll Salmon Landings, and Ex-Vessel Prices for Seattle, Alaska Ports and British Columbia, 1963-1962, 35 pp., December 1963. (Market News Service, U. S. Fish and Wildlife Service, 706 Federal Office Bldg., Seattle, Wash. 98104.) Gives landings and ex-vessel prices of troll salmon and halibut at leading United States ports of the Pacific Coast; ex-vessel halibut prices and landings at leading British Columbia ports; United States and Canadian Pacific Coast halibut landings, 1936-1963; Seattle season averages of ex-vessel halibut prices, 1954-1963; and troll salmon landings and receipts at Seattle and Alaska ports, with comparative data.

(Seattle) Washington and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, November 1963, 8 pp. (Market News Service, U. S. Fish and Wildlife 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.

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.

ADDITIVES:

Specifications for Identity and Purity of Food Additives. Vol. 1--Antimicrobial Preservatives and Antioxidants, printed, 1962. Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy.

ALASKA:

1962 Alaska Commercial Fisheries Catch and Production Statistics, by P. E. Chitwood, Statistical Leaflet No. 5, 19 pp., printed, 1963. Alaska Department of Fish and Game, Subport Bldg., Juneau, Alaska.

ALGAE:

"Antibiotic Activity of Some Marine Algae of Puerto Rico," by P. R. Burkholder, L. M. Burkholder, and L. R. Almondovar, article, Botanica Marina, vol. 2, no. 1/2, 1960, pp. 149-156, printed in English with German and French summaries. Studiengesellschaft zur Erforschung von Meeresalgen, e.V. Hamburg, Germany.

"How to Fight Algae," by William S. Service, Jr., article, Aquarium Journal, vol. XXXIV, no. 9, September 1963, pp. 387-388, 390, printed. San Francisco Aquarium Society, Inc., Steinhart Aquarium, Golden Gate Park, San Francisco 18, Calif.

"The Protein Quality, Digestibility, and Composition of Algae, Chlorella 71105," by Joseph A. Lubitz, article, Journal of Food Science, vol. 28, March-April 1963, pp. 229-232, printed. Institute of Food Technologists, 510-522 N. Hickory St., Champaign, Ill.

ANCHOVY:

La Pesca de la Anchoveta--Estadística de Pesca y Esfuerzo en Abril, Mayo y Junio de 1962 (The Anchovy Fishery--Statistics of the Fishery and Fishing Effort in April, May, and June 1962), by W. F. Doucet, G. Saetersdal, and I. Vasquez A., Report No. 5, 11 pp., illus., processed in Spanish, 1962. Library, Instituto de Investigación de los Recursos Marinos, P. O. Box 3734, Lima, Peru.

La Pesca de la Anchoveta--Estadística de Pesca y Esfuerzo en Enero, Febrero y Marzo de 1962 (The Anchovy Fishery--Statistics of the Fishery and Fishing Effort in January, February, and March 1962), by W. F. Doucet, G. Saetersdal, and I. Vasquez A., Report No. 2, 11 pp., illus., processed in Spanish, 1962. Library, Instituto de Investigación de los Recursos Marinos, P. O. Box 3734, Lima, Peru.

La Pesca de la Anchoveta--Estadística de Pesca y Esfuerzo en Octubre, Noviembre y Diciembre de 1961 (The Anchovy Fishery--Statistics of the Fishery and Fishing Effort in October, November, December 1961), by W. F. Doucet, G. Saetersdal, and I. Vasquez A., Report No. 1, 14 pp., illus., processed in Spanish, 1962. Library, Instituto de Investigación de los Recursos Marinos, P. O. Box 3734, Lima, Peru.

Synopsis of Biological Data on Anchovy, ENGRAULIS ENCRASCOLUS (Linnaeus), 1758 (Mediterranean and Adjacent Seas), by N. Demir, FAO Fisheries Synopsis No. 26, 43 pp., illus., processed, February 1963. Fisheries Division, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy.

ANIMAL NUTRITION:

Nutrition of Pigs and Poultry (Proceedings of the University of Nottingham Eighth Easter School in Agricultural Science), edited by J. T. Morgan and D. Lewis, 375 pp., printed, 70s. (about US\$9.80). Butterworth and Co. (Publishers) Ltd., Bell Yard, Temple Bar, London WC2, England, 1962.

ANTARCTIC:

"Pelagic Gadoid Fish in the Antarctic," by N. R. Merritt, article, Norsk Hvalfangst-Tidende (The Norwegian Whaling Gazette), vol. 52, no. 9, September 1963, pp. 245-247, illus., printed. Hvalfangerforeningen, Sandefjord, Norway.

ANTIOXIDANTS:

"Evaluation of Antioxidants by a Rapid Polarographic Method," by J. W. Hamilton and A. L. Tappel, article Journal of the American Oil Chemists' Society, vol. 40, February 1963, pp. 52-54, printed. American Oil Chemists' Society, 35 E. Wacker Dr., Chicago 1, Ill.

AQUATIC WEEDS:

Aquatic Weeds; Their Identification and Methods of Control, by A. C. Lopinot, Fisheries Bulletin No. 4, 47 pp., printed, 1963. Illinois Department of Conservation, Springfield, Ill.

"Biological Controls for Water-Weeds," by Roy A. Grizzell, Jr. and William W. Neely, article, Transactions of the Twenty-Seventh North American Wildlife and Natural Resources Conference, pp. 107-113, printed. Wildlife Management Institute, Wire Bldg., Washington 5, D. C., 1962.

"The Grip of the Water Hyacinth," by A. D. Evans, article, New Scientist, vol. 19, no. 358, September 26, 1963, pp. 666-668, illus., printed. Cromwell House, Fulwood Pl., High Holborn, London WC1, England. Abnormal growth of water weeds can interfere with fishing, seriously reduce fish populations by deoxygenating the water and blocking the spawning grounds, and lead to increased populations of disease-carrying water snails. A native of Brazil, the water hyacinth now threatens many rivers in Africa and Asia.

AUSTRALIA:

Coastal Hydrological Investigations in the New South Wales Tuna Fishing Area, 1963, by A. D. Crooks, Oceanographical Station List, vol. 53, 84 pp., illus., processed, 1963. Division of Fisheries and Oceanography, Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia.

Coastal Investigations at Port Hacking, New South Wales, 1960, by A. D. Crooks, Oceanographical Station List, vol. 52, 137 pp., processed, 1963. Division of Fisheries and Oceanography, Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia.

Establishing a Business in Australia, OBR 63-108, 16 pp., printed. Bureau of International Commerce,

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

U. S. Department of Commerce, Washington, D. C., 1963. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Discusses Government policies on investment, external capital, and aiding industry; expropriation and compensation; land tenure regulations; rights of aliens; regulations governing entry and repatriation of capital; tariff policy; and laws regarding the various types of business organization. Also covers patent licensing; mining laws; regulations affecting employment; the various forms of taxation to which businesses are subject; and the availability of factory sites.

Manufacturing Industries, 1961-62, No. 23--Meat and Fish Preserving, by K. M. Archer, 10 pp., processed, October 3, 1963. Commonwealth Bureau of Census and Statistics, Canberra, Australia.

The Results of an Expedition to Bernier and Dorre Islands, Shark Bay, Western Australia, in July 1959, by W. D. L. Ride and others, Fauna Bulletin No. 2, 128 pp., illus., printed, 1962. Fisheries Department, 108 Adelaide Terrace, Perth, Western Australia.

Seventh Annual Report on the Operation of the Fishing Industry Act 1956 during the Year Ended 30th June, 1963, 8 pp., processed. Department of Primary Industry, Canberra, Australia. This report outlines the operations of the Fisheries Development Trust Account, established for the purpose of financing activities designed to foster the development of the Australian fishing industry, for the year ended June 30, 1963. It discusses the shrimp fishery in the Gulf of Carpentaria, research on sperm whales off Western Australia, training school for fisheries field officers, tuna long-lining, and Western Australian spiny lobster biological research.

CHINA:

"The Bloodworm Industry in the Maritimes," by M. C. Cormier, article, Trade News, vol. 16, no. 2, August 1963, pp. 3-5, illus., processed. Information and Consumer Service, Department of Fisheries, Ottawa, Canada.

BARNACLES:

"Effects of Copper Ion on Oxygen Uptake by Planktonic Cyprids of the Barnacle, Balanus amphitrite niveus," by Francis J. Bernard and Charles E. Lane, Contribution No. 465, 3 pp., illus., printed. (Reprinted from Proceedures of the Society for Experimental Biology and Medicine, vol. 113, 1963, pp. 418-420.) University of Miami, Marine Laboratory, Institute of Marine Science, 1 Rickenbacker Causeway, Miami 49, Fla.

BELGIUM:

Market for U. S. Products in Belgium (Supplement to International Commerce), by Robert H. Walker, 60 pp., illus., printed, 45 cents. Bureau of International Commerce, U. S. Department of Commerce, Washington, D. C., February 1963. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Provides general marketing information on Belgium, guidance on prospects for sales of selected commodities of special interest, and related material essential to

the U. S. businessman preparing to sell goods in Belgium. Includes a section on the market for frozen and convenience foods.

BIOCHEMISTRY:

"Autoxidation of Beef and Tuna Oxymyoglobins," by W. Duane Brown and Ami Dolev, article, Journal of Food Science, vol. 28, March-April 1963, pp. 207-210, printed. Institute of Food Technologists, 510-522 N. Hickory St., Champaign, Ill.

"Flavors from Fat," article, Food Processing and Packaging, vol. 31, no. 369, 1962, pp. 212-217, printed. Putman Publishing Co., 111 E. Delaware Pl., Chicago 11, Ill.

BOTULISM:

"FDA Investigating Botulism Outbreak from Smoked Whitefish," article, FDA Report on Enforcement and Compliance, October 1963, p. 18, processed. Food and Drug Administration, U. S. Department of Health, Education, and Welfare, Washington, D. C. 20201.

BRAZIL:

Pesca--1961, Estrutura e Producao (Fishing Industry, 1961, Structure and Production), 45 pp., processed in Portuguese. Ministerio da Agricultura, Servico de Estatistica da Producao, Rio de Janeiro, Brazil, April 1963.

BUFFALOFISH:

Consumer Acceptance of Fresh Buffalo Fish, by W. R. Morrison, Report Series No. 116, 24 pp., printed, 1963. Agricultural Experiment Station, University of Arkansas, Fayetteville, Ark.

CALIFORNIA:

A Historical Review of the Fish and Wildlife Resources of the San Francisco Bay Area, by John E. Skinner, Water Projects Branch Report No. 1, 236 pp., illus., printed, June 1962. Water Projects Branch, Department of Fish and Game, The Resources Agency of California, 722 Capitol Mall, Sacramento, Calif. 95814. Discusses the fishing ports; the early history of the commercial fisheries; the fisheries from 1870 to 1915, and from 1915 to the present; the fisheries of the Bay area today--schooling and pelagic fish, flatfish, bottomfish, sharks and skates, salt-water perch, croakers, molluscan and crustacean fisheries; freshwater fish, anadromous commercial fisheries; and economic aspects of the commercial fisheries. A section on anadromous fisheries covers king salmon, silver salmon and steelhead trout, striped bass, sturgeon, and American shad. The section on molluscan fisheries includes information on oysters, clams, abalone, and marine borers. The section on the crustacean fisheries discusses crabs, shrimp, and freshwater crayfish. The freshwater fisheries and marine mammals of the area are discussed. Included are many statistical tables giving historical data on various aspects of the fisheries.

CANADA:

Canadian Fisheries Reports, no. 2, October 1963, 31 pp., illus., printed. Information and Consumer Service, Department of Fisheries, Ottawa, Canada. Includes articles on: "Factors Affecting the Efficiency of Antibiotic Dips for Fresh Fish Fillets," by C. M. Blackwood, J. Liston, and J. A. Stern; "A Critical

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Survey of Differential Media for the Demonstration of Coagulase-Positive Staphylococci in Food," by N. Neufeld and R. Garm; "Coliform Contamination in Lobster Meat Traced to Cooler Construction," by John M. Graham; and "Quality Changes in Vacuum Packed and Non-Vacuum Packed Frozen Lobster Meat during Storage at Different Temperatures," by W. A. Murphy and H. L. Newson.

Fishes of Ontario, by H. H. MacKay, 300 pp., printed, 1963. Department of Lands and Forests, Toronto, Ontario, Canada.

Fishing and Hunting in Canada, 1961, by D. A. Benson, 25 pp., printed, 1963. Canadian Wildlife Service, National Parks Branch, Department of Northern Affairs and National Resources, Ottawa, Canada. A report on an economic survey.

Rapport Annuel, 1962 (Annual Report, 1962), 209 pp., printed in French, 1963. Station de Biologie Marine, Grande-Riviere, Quebec, Canada.

"Trends in Canadian Atlantic Fisheries," by R. U. Mahaffy, article, Canadian Fisherman, vol. 50, no. 11, November 1963, p. 17, printed, single copy C\$2. National Business Publications Ltd., Gardenvale, Que., Canada.

"Trends in Canadian Atlantic Mainland Fisheries Past, Present, and Future," by W. R. Martin, article, Trade News, vol. 16, no. 2, August 1963, pp. 8-15, illus., processed. Information and Consumer Service, Department of Fisheries, Ottawa, Canada.

CANNING:

"Cools Cans Three Times Faster," article, Food Processing, vol. 23, no. 6, 1962, pp. 37-38, printed. Putman Publishing Co., 111 E. Delaware Pl., Chicago 11, Ill.

"Spin Processing of Canned Foods," article, Food Preservation Quarterly, vol. 22, no. 3, 1962, pp. 76-77, printed. Commonwealth Scientific and Industrial Research Organization, Division of Food Preservation, P. O. Box 43, Ryde, N. S. W., Australia.

"Vacuum Sealing Machine with Gas Supply, article, Technological Digests, vol. 7, no. 4, 1962, p. 67, printed. Organisation for Economic Co-Operation and Development, 2 Rue Andre Pascal, Paris, France.

CARP:

"Kanibalizm u Lychynok i Mal'kiv Sazana" (Cannibalism among the Larvae and Fry of the Carp), by O. I. Kudryns'ka, article, Dopovidi Akad. Nauk Ukrain. R. S. R., vol. 1, 1962, pp. 111-113, printed in Russian. Academy of Science of the Ukrainian SSSR, Kiev, Ukraine, U. S. S. R.

CASPIAN SEA:

"Pump Fishing in the Caspian Sea," article, Fishing News International, vol. 2, no. 3, July-September 1963, p. 304, illus., printed, single copy 6s. 6d. (about 85 U. S. cents). Arthur J. Heighway Publications Ltd., Ludgate House, 110 Fleet St., London EC4, England.

CETACEANS:

Riesenfische, Wale und Delphine (Giant Fishes, Whales and Dolphins), by J. R. Norman and F. C. Fraser, 342 pp., illus., printed in German, 1963. Verlag Paul Parey, Spitalerstrasse 12, Postfach 1129, 2000 Hamburg 1, Federal Republic of Germany. (Also available in an English edition from Putnam, 42 Great Russell St., London WC1, England.) Part I of this book is concerned with fishes, such as sharks, rays, perch-like fishes, barracuda, etc. Part II is concerned with cetaceans, such as whales, porpoises, and dolphins. The book includes a description of the better known forms but does not necessarily include every animal in these families. A biological description of these classes of animals is given for ready use to identify those that are covered. The book is designed to help the layman and scientist to make quicker and more ready identification.

--Walter H. Stolting

CEYLON:

Administration Report of the Director of Fisheries for 1961-62, Part IV--Education, Science and Art (L), 70 pp., printed in Sinhalese and English, 2/40 (about 55 U. S. cents), August 1963. Government Publications Bureau, P. O. Box 500, Secretariat, Colombo, Ceylon. Reports on the activities of the Ceylon Department of Fisheries for 1961-62. Includes information on programs of the organization, disputes and regulations, loans to fishermen, cooperative societies, coastal navigation aids, and fishing harbors. Also covers fresh- and brackish-water fisheries, pearl fisheries, Mutwal fisheries factory and harbor, trawler fishing, and fishery research. Included are statistical tables giving data on production of fresh-water and marine fish, mechanized fishing vessels, and imports and exports of fishery products.

CLAMS:

Seasonal Growth of the Northern Quahog, MERCENARIA MERCENARIA, and the Southern Quahog, M. CAMPECHIENSIS, in Alligator Harbor, Florida, by R. W. Menzel, Contribution No. 184, 10 pp., illus., processed. (Reprinted from Proceedings of the National Shellfish Association, vol. 52, 1961, pp. 37-46.) Oceanographic Institute, Florida State University, Tallahassee, Fla. Monthly shell length measurements were made of Mercenaria mercenaria for 3.5 years and of M. campechiensis for 2 years, in Alligator Harbor, Franklin County, Florida. The northern clams were laboratory-reared natives of Long Island Sound. They showed the best growth recorded for any locality, with greatest growth in spring and fall, less in winter, and least in summer. The southern clams, which originated in Alligator Harbor, grew faster than the northern species, with greatest growth in spring and fall, almost as much in summer, and least in winter.

COD:

"Kolichestvennaya Otsenka Skoplenii Baltiiskoi Treski s Pomoshch'yu Ekholota" (Quantitative Assessment of Cod Concentrations in the Baltic Using Sonar), by K. I. Yudanov, article, Rybnoe Khoziaistvo, no. 1, 1962, pp. 26-32, printed in Russian. VNIRO Glavniproekta, pri Gosplanie SSSR, Moscow, U. S. S. R.

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

"Laanemere Tursk Randab." (Migrations of the Baltic Cod), by I. Stsukina, article, Eesti Loodus, vol. 6, 1961, pp. 361-363, printed in Estonian. Academy of Sciences of the Estonian SSSR, Tartu, U. S. S. R.

Svyaz' Hidrologicheskikh Uslovii s Kolebaniyami Chislennosti Pokolenii Treski" (Relationship between Hydrological Conditions and Fluctuations in the Numbers of Successive Year-Classes of Cod), by A. G. Kislyakov, article, Trudy Soveshchaniy Ikhtiologicheskoi Komissii Akad. Nauk SSSR, vol. 13, 1961, pp. 260-264, printed in Russian. Akademia Nauk SSSR, Ikhtiologicheskaya Komissiya, Moscow, U. S. S. R.

"Where Do Seven Islands Cod Come From?" by Yves Jean, article, Trade News, vol. 16, no. 2, August 1963, pp. 6-7, illus., processed. Information and Consumer Service, Department of Fisheries, Ottawa, Canada.

RABBING:

"Zinc Anodes Save Money for Commercial Crabbers," article, Fish Boat, vol. 8, March 1963, p. 13, printed. H. L. Peace Publications, 624 Gravier St., New Orleans 9, La.

RABS:

Influence of Hosts on the Behavior of the Commensal Crab, PINNOTHERES MACULATUS Say, by A. N. Sastry and R. Winston Menzel, Contribution No. 181, 8 pp., printed. (Reprinted from Biological Bulletin, vol. 123, no. 2, October 1962, pp. 388-395.) Oceanographic Institute, Florida State University, Tallahassee, Fla.

TUBA:

Afloramiento y Corrientes Cercanas a Cuba (Upwelling and Currents Near Cuba), by Juan J. Tapanes, Contribution No. 17, 28 pp., illus., printed in Spanish, July 1963. Centro de Investigaciones Pesqueras, Departamento de Pesca, Playa Habana, Bauta, Cuba.

DAHOMEY:

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fishery production during 1962, with some comparative data for previous years. The tables are grouped together under the headings (1) production, consumption, and requirement; (2) commercial fishing vessels; (3) fish ponds; (4) foreign trade; and (5) other data. Subdivisions of the tables is made according to gear, species caught, monthly production, and fishing grounds. The appendices include, among other items, information on the fishery districts, fishing grounds used by commercial vessels, and forms used in collecting statistics. Except for the table showing production data since 1950, most of the information covers the five-year period 1958-1962.

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Research and Shrimp Production," by Lyle S. St. Amant, article, Louisiana Conservationist, vol. 15, nos. 11 and 12, November-December 1963, pp. 6-9, illus., printed. Louisiana Conservationist, Wild Life and Fisheries Bldg., 400 Royal St., New Orleans 16, La. Recent declines in shrimp production in the northern Gulf of Mexico have resulted in a great impetus in shrimp research by state and federal agencies. During the past 3 years shrimp research in that area has been coordinated and carried out by those agencies at a level which for the first time has made adequate data available in time to apply to each year's production. These data are now being applied annually in the prediction of the shrimp harvest, the setting of seasons, and the general management of the shrimp population. This article attempts to place research in its proper perspective and examines what may be expected from the application of research in the shrimp industry in the near and distant future.

SMALL BUSINESS MANAGEMENT:

Bringing Management Information to Small Business, by J. Richard Stevens, Management Research Summary, 4 pp., processed. Small Business Administration, Washington, D. C. 20416. A major block to greater success for many small businessmen is failure to make use of the management information that is available. There are many sources of good management information and counsel. Major problems are (1) to present the material in such a form that the small businessman can and will use it, and (2) to develop channels through which the small businessman can find the help he needs when he needs it. Agencies that originate and communicate business information, the report suggests, should coordinate their efforts in order to reduce the avalanche of duplicate and overlapping materials. Effort should be made to provide local personal sources of management information and counsel.

Environment vs. Management in Small Business Failure, Management Research Summary, 2 pp., processed, 1963. Small Business Administration, Washington, D. C. 20416. Environmental rather than managerial factors were dominant in the termination of 20 of the 37 out-of-business firms studied. Some environmental factors were economic decline of the industry in that area and unavailability of financing. The most noticeable difference between successful and unsuccessful owners lay in their approach to decision making. In general, owner-managers of the out-of-business firms had relied less on outside management and technical help than had owner-managers of the firms that were still active.

Keeping Score with Effective Records, by William L. Raby, Small Marketers Aid No. 94, 4 pp., processed. Small Business Administration, Washington, D. C. 20416, August 1963. Designed for small marketers who may wish to check their records. To be effective, records should provide needed facts at the proper time, and they should be easy to handle. The kinds of records and how many depend on the nature of the particular business. Types of records often used by small marketers include inventory and purchasing, sales records, cash records, credit records, personnel records, fixtures and property, and bookkeeping.

Profitability and Size of Firm, by H. O. Stekler, Management Research Summary, 2 pp., processed, 1963. Small Business Administration, Washington, D. C. 20416. Findings showed that small firms generally have lower profit ratios than large firms. The report concludes that small firms as a group have less ability to expand than large firms. The profit ratios of the small firms, however, are not excessively low in comparison with industry averages. Small firms showed more variation than large ones in the profit ratios of firms within a size class.

Tax Guide for Small Business, 1964, 144 pp., printed, 40 cents, December 1963. Internal Revenue Service, U. S. Department of the Treasury, Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) For use in filing the 1963 income tax returns, excise tax returns, and other returns. It answers the Federal tax questions of corporations, partnerships, and sole proprietorships. Explains in plain layman's language the tax results from buying, starting, operating, and the sale and other disposition of a business. In addition, contains a tax calendar for 1964 which should prove helpful to the businessman throughout the year, since it indicates what he should do and when he should do it in regard to the various Federal taxes. Also has a checklist of special interest for the man just starting in business in that it affords a quick method for determining for what Federal taxes he may be liable.

Trends and Prospects for Affiliated Food Retailers, by Russell L. Childress, 168 pp., printed, \$2. Department of Agricultural Economics, University of Delaware, Newark, Del., 1962.

Will Profit Sharing Help Your Firm?, by B. L. Metzger, Management Aid for Small Manufacturers No. 157, 4 pp., processed, October 1963. Small Business Administration, Washington, D. C. 20416. Small companies are finding that profit sharing, when properly handled, provides incentives which can help to bring about employee teamwork, reduced labor turnover, high productivity, better product quality, and lower costs. These results are achieved because profit sharing programs "share the caring" by giving employees a stake in the company's success. Yet the success of a profit-sharing program is not automatic. It depends on many factors, including the company's profit potential, a plan tailored to the company's needs, and keeping employees interested.

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

SMOKING:

Recommendations for the Preparation of Smoked Salmon, by A. Bannerman, Torry Advisory Note No. 5, 3 pp., printed, 1962. Torry Research Station, Aberdeen, Scotland.

Smoked White Fish--Recommended Practice for Producers, Torry Advisory Note No. 9, 7 pp., printed, 1963. Torry Research Station, Aberdeen, Scotland.

SOUTH AFRICA REPUBLIC:

Thirty-First Annual Report for the Period 1st April, 1959 to 31st March, 1960, 242 pp., printed, 1963. Division of Sea Fisheries, Department of Commerce and Industries, Pretoria, South Africa Republic.

SPAIN:

Las Conservas de Pescado Espanolas ante el Mercado Comun (The Spanish Canned Fish Industry and the Common Market), by Francisco Lopez Capont, 7 pp., printed in Spanish. (Reprinted from Informacion Conservera, no. 111-112, March-April 1963.) Informacion Conservera, Colon, 62, Valencia, Spain.

"Glance at Some Spanish Fishing Methods," by G. Christian, article, Fishing News International, vol. 2, no. 3, July-September 1963, pp. 299-300, 302-303, illus., printed, single copy 6s. 6d. (about 85 U. S. cents). Arthur J. Heighway Publications Ltd., Ludgate House, 110 Fleet St., London EC4, England. Discusses long-line fishing, trammel net fishing, and ring net fishing as practiced by Spanish fishermen in the province of Catalonia.

SPAWNING:

"Izmenenie Polovykh Tsiklov u Ryb s Edinovremennym Ikrometaniem v Svyazi s Izmeneniem Uslovii Sushchestvovaniya" (Change of the Sexual Cycle of Fishes Having a Single Spawning Time (Each Year) Associated with Changed Conditions of Existence), by B. V. Koshelev, article, Voprosy Ikhtiologii, vol. 1, no. 4, 1961, pp. 716-724, printed in Russian. Akademiya Nauk SSSR, Ikhtiologicheskaya Komissiya, Moscow, U. S. S. R.

SPOILAGE:

"The Effect of Tylosin on Coagulase-Positive Staphylococci in Food Products," by R. A. Greenberg and J. H. Silliker, article, Journal of Food Science, vol. 27, no. 1, 1962, pp. 60-63, printed. Institute of Food Technologists, 510-522 N. Hickory St., Champaign, Ill.

SPORT FISHERY:

"Valuation of a Fishery," by James A. Crutchfield, article, Transactions of the Twenty-Seventh North American Wildlife and Natural Resources Conference, pp. 335-347, printed. Wildlife Management Institute, Wire Bldg., Washington 5, D. C., 1962.

SQUID:

"A New Species of Gonatid Squid from the Northeastern Pacific," by William G. Percy and Gilbert L. Voss, Contribution No. 466, 7 pp., illus., printed. (Reprinted from Proceedings of the Biological Society of Washington, vol. 76, August 2, 1963, pp. 105-112.) University of Miami, Marine Laboratory, Institute of Marine Science, 1 Rickenbacker Causeway, Miami 49, Fla.

STERN TRAWLERS:

"Brunswick Type Stern Trawler," article, Canadian Fisherman, vol. 49, no. 5, 1962, pp. 15-17, illus., printed. National Business Publications Ltd., Gardenvale, Que., Canada.

"French Yard Claims Improved Stern Trawler Arrangement," article, World Fishing, vol. 11, no. 5, 1962, p. 55, illus., printed. John Trundell & Partners, Ltd., St. Richards House, Eversholt St., London NW1, England.

"Stern Trawler with Ferry-Type Bridge," article, World Fishing, vol. 11, no. 11, 1962, pp. 40, 43, illus., printed. John Trundell & Partners, Ltd., St. Richards House, Eversholt St., London NW1, England.

STRIPED BASS:

"Resultats d'Etiquetage du Bar d'Amerique, dans le Fleuve Saint Laurent de 1945 a 1960" (Results of Tagging Striped Bass in the Saint Lawrence River during the Period 1945 to 1960), by G. Beaulieu, article, Naturaliste Canadien, vol. 89, no. 8/9, 1962, pp. 217-236, printed in French. Naturaliste Canadien, l'Universite Laval, Quebec, Canada.

SWEDEN:

"Vastkustfiskarna Begar att fa Behalla sin Olycksfallsforsakring; Uppvaktning infor Yrkesskadeutredningen" (The Fishermen of the West Coast Demand to Keep Their Accident Insurance; a Delegation before the Work-Hazards Investigating Group), by Ingemar Gerhard, article, Svenska Vastkust Fiskaren, vol. 33, no. 16, August 1963, p. 388, printed in Swedish. Svenska Vastkustfiskarnas Centralforbund, Goteborg, Sweden.

TAGGING:

"Zavisimost' Sokhrannosti Metok ot Povedeniya i Uslovii Obitaniya Ryb." (The Relation of Retention Tags to the Behavior and Environmental Conditions of Fishes), by K. R. Fortunatova and N. I. Chugunov, article, Voprosy Ikhtiologii, no. 15, 1960, pp. 91-105, printed in Russian. Akademiya Nauk SSSR, Ikhtiologicheskaya Komissiya, Moscow, U. S. S. R.

TARIFF AND TRADE:

Negotiations under the Trade Expansion Act of 1962 Publications 63-1, 30 pp., processed, 20 cents, October 1963. Office of the Special Representative for Trade Negotiations, Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Contains "Notice of Proposed Trade Agreement Negotiations and Articles to be Considered for Negotiation;" and "Notice of Public Hearings: Trade Information Committee."

Public Notice of Investigation and Hearings (Investigation No. TEA-221 (b)-1 Under Section 221 of the Trade Expansion Act of 1962, With Respect to President's List of Articles for Possible Consideration in Trade Agreement Negotiations), 6 pp., processed, October 22, 1963. U. S. Tariff Commission, Washington, D. C. 20436. Included in requests for reservation of certain items from negotiations are cod, cusk, haddock, hake, pollock, Atlantic ocean perch, "otherwise processed."

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

TARIFFS:

Tariff Schedules of the United States Effective August 31, 1963, TC Publication 112, 532 pp., processed, \$4 (includes cost of supplemental pages to be issued until further notice), 1963. United States Tariff Commission, Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Presents a republication of the legal text of the Tariff Schedules of the United States and of the related material originally published by the President in Part II of the Federal Register of August 17, 1963. Also includes the text of Proclamation 3548 which brought the new schedules into effect on August 31, 1963; the Tariff Classification Act of 1962, as amended; and a special list of rates of duty regarded as "existing on July 1, 1962," under section 256 (4) of the Trade Expansion Act of 1962. Included in the volume is a schedule of duties on fish and shellfish.

THAILAND:

"Chilling of Fish in Thailand," by M. C. Kosolsuriyathit Suriyong, P. Nityachin, and G. N. Subba Rao, article, *Current Affairs Bulletin*, no. 37, August 1963, pp. 19-25, illus., printed. Indo-Pacific Fisheries Council, Food and Agriculture Organization of the United Nations, Bangkok, Thailand.

TILAPIA:

The African Cichlid, *Tilapia heudeloti* Dumeril, in the Commercial Fish Catch of Florida," by Victor G. Springer and John H. Finucane, 2 pp., printed. (Reprinted from *Transactions of the American Fisheries Society*, vol. 92, no. 3, July 1963, pp. 317-318.) Secretary, American Fisheries Society, P. O. Box 483, McLean, Va.

TRANSPORTATION:

Local Transport of Frozen Fish, D. L. Nicol, Torry Advisory Note No. 8, 5 pp., printed, 1963. Torry Research Station, Aberdeen, Scotland.

TRAWLING:

Einige Grundlagen für die Berechnung der Bewegung des Trawlers mit dem Schleppnetz" (Some Fundamentals for the Calculation of the Motion of a Trawler with the Trawl Gear), by H. Stengel, article, *Fischereiforschung*, vol. 5, no. 3, 1962, pp. 10-14, illus., printed in German. Institut für Hochseefischerei und Fischverarbeitung, Rostock-Marienehe, Germany.

Midwater Trawling," by A. von Brandt, article, *Fishing News International*, vol. 1, no. 2, 1962, pp. 63-65, illus., printed. A. J. Heighway Publications Ltd., 110 Fleet St., London EC4, England.

Die Optimale Schleppegeschwindigkeit" (The Optimum Towing Speed), by V. N. Cestnoj, article, *Fischereiforschung*, vol. 5, no. 2, 1962, pp. 16-19, illus., printed in German. Institut für Hochseefischerei und Fischverarbeitung, Rostock-Marienehe, Germany.

TRAWLS:

Du Chalut de Fond a Grande Ouverture Verticale au Chalut Flottant" (From a Bottom Trawl with Large Vertical Opening to the Floating Trawl), by C. Ne-

delec, article, *Science et Peche*, no. 95, 1961, 13 pp., illus., printed in French. Institut Scientifique et Technique des Peches Maritimes, 59 Ave. Raymond-Poincare, Paris XVI, France.

Trawls, by Zbigniew Zebrowski, OTS 60-21500, 109 pp., illus., printed, \$1.50, 1963. (Translated from the Polish, *Wloki Trawlarowe*, 1954.) Office of Technical Services, U. S. Department of Commerce, Washington, D. C. 20235.

TROUT:

"He's Forever Chasing Rainbows," by Frank J. Taylor, article, *The Saturday Evening Post*, vol. 236, no. 42, November 30, 1963, pp. 70-71, illus., printed, single copy 20 cents. The Curtis Publishing Company, Philadelphia, Pa., 19105. Discusses a large trout farm in Idaho and how it was developed. A striking fact is that this is the most productive acreage on earth. Where an acre of dirt farm may produce a yearly harvest of 2,000 pounds of poultry or 500 pounds of beef, each acre of this farm yields 400,000 pounds of rainbow trout (weight based on fish dressed, packed, and ready for the market). In breeding the fish, the owner has eliminated the migratory pattern, extended the spawning period from 3 to 9 months, and developed trout that spawn at the age of 2 rather than 3 years. Fed on a mixture of fish meal, brewer's yeast, whey, soybean and alfalfa meal, and vitamins and minerals, the trout grow an inch a month. The use of a fish-cleaning machine in the packing plant has increased the production output. In 10 years, annual production has risen from 250,000 pounds to 1.5 million pounds. Recent innovations are the development of a mutation golden trout and plans for sale of live trout in West Coast food stores.

"A Contribution to the Growth and Food Biology of the Brown Trout *Salmo trutta* Trutta M. Fario and *Salmo trutta* Labrax M. Fario in Some Waters of Czechoslovakia," by Stanislav Frank, article, *Vestnik Československe Spolecnosti Zoologicke*, vol. 25, no. 4, 1962, pp. 316-328, printed in Czechoslovak. Department of Zoology, Laboratory of Ichthyology, Charles University, Prague, Czechoslovakia.

"Preliminary Research on the Action of Alkylaryl-sulphonate on *Salmo irideus*," by C. Maldura, article, *Proceedings of the General Fisheries Council for the Mediterranean*, no. 6, 1961, pp. 203-206, printed. General Fisheries Council for the Mediterranean, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy.

"On the Rainbow Trout (*Salmo gairdnerii* Irideus) in Lake Titicaca, South America," by Yoshiichi Matsui, article, *Bulletin of the Japanese Society of Scientific Fisheries*, vol. 28, no. 5, 1962, pp. 497-498, printed. Japanese Society of Scientific Fisheries, Shiba-Kai-gondori 6, Minato-ku, Tokyo, Japan.

"Thermoperiodism in Sea-Run Cutthroat Trout (*Salmo clarki* Clarki)," by Wallace G. Heath, article, *Science*, vol. 142, no. 3591, October 25, 1963, pp. 486-488, illus., printed, single copy 35 cents. American Association for the Advancement of Science, 1515 Massachusetts Ave, NW., Washington 5, D. C.

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Trout Stream Management in Massachusetts, by James W. Mullan, 94 pp., illus., printed. Massachusetts Division of Fisheries and Game, Boston, Mass., 1960.

TUNA:

"On the Blood Types of Yellowfin and Bigeye Tuna," by Akimi Suzuki, article, American Naturalist, vol. 96, no. 889, 1962, pp. 239-246, printed. The Science Press, Lancaster, Pa.

"Sobre as Pescarias de Atuns e Afins e Suas Areas de Ocorrencia no Atlantico Tropical no Bienio 1961-1962" (On the Fisheries for Tuna and Related Species and Their Areas of Occurrence in the Tropical Atlantic in the Bienium 1961-1962), by J. B. Gomes da Fonseca and Aldemir C. Barros, article, Sudene, Boletim de Estudos de Pesca, vol. 13, no. 7, July 1963, pp. 18-25, processed in Portuguese. Departamento de Industrializacao, Seter Pesca, Superintendencia do Desenvolvimento do Nordeste, Edificio Juscelino Kubitschek, 12^o Andar, Recife, Brazil.

Statistical Research Report on the Tuna Longline Fisheries, by Fishing Grounds, April 1961-March 1962, 103 pp., illus., processed in Japanese with English summary, August 1963. Statistics and Survey Division, Ministry of Agriculture and Forestry, Japanese Government, Tokyo, Japan. Discusses recent production trends in tuna long-line fishery; types of fishery and catch by ocean; operation and catch by area; and productivity. Includes statistical tables giving data on tuna long-line fishery catch by year and by type of fishery; number of vessels; composition of catch by area and by species; productivity by vessel size of Japan-based fishery; productivity by ocean by vessels in the 200-500 ton class; and other similar data.

"Studies of the Erythrocyte Antigens of the Skipjack Tuna (*Katsuwonus pelamis*)," by Lucian M. Sprague, article, American Naturalist, vol. 96, no. 889, 1962, pp. 233-238, printed. The Science Press, Lancaster, Pa.

Subsides pour l'Etude de l' "Honeycombing" de la Chair de Thon (Subsidies for the Study of "Honeycombing" of Tuna Meat), by Manuel de sa Nogueira, 45 pp., illus., printed in French. Ministerio da Economia, Secretaria de Estado do Comercio, Instituto Portugues de Conservas de Peixe, Lisbon, Portugal, 1959.

"Treasure on the Table," article, Good Packaging, vol. 24, no. 7, July 1963, Yearbook Edition, pp. 56-76, illus., printed, single copy 75 cents. Good Packaging, 171 Second St., San Francisco 5, Calif. A survey of the United States tuna industry, from sea to table. Discusses the history of the tuna fishery in Greece and Peru; the principal tuna species--albacore, bluefin, skipjack, and yellowfin; methods of catching tuna; processing and canning; tuna research; and marketing and consumption.

"The Tuna Fishery: Methods, Distribution, and Abundance," by G. V. Howard, article, Western Fisheries, vol. 64, no. 3, 1962, pp. 15-16, 50-53, 56-57, illus., printed. Roy Wrigley Publications Ltd., 1104 Hornby St., Vancouver 1, B. C., Canada.

TURKEY:

Balik ve Balikcilik, vol. XI, no. 10, October 1963, 35 pp., illus., printed in Turkish with English table of contents. Et ve Balik Kurumu G. M., Balikcilik Mudurlugu, Besiktas, Istanbul, Turkey. Includes, among others, articles on: "Fish Pigments" and "Basic Researches on the Development of Fishery in Turkish Freshwater Lakes and Dams."

Balik ve Balikcilik, vol. XI, no. 9, September 1963, 35 pp., illus., printed in Turkish with English table of contents. Et ve Balik Kurumu G. M., Balikcilik Mudurlugu, Besiktas, Istanbul, Turkey. Includes, among others, these articles; "The Fishing of Bonitos and Skipjacks by Hook and Line in the Territorial Waters (Part 2);" and "The Sulphurization and Sulphonation Methods of Fish Oil and Utilization of Raw Material of Fish Oil in Industry."

UNDERWATER EXPLOSIONS:

Geophysical Offshore Oil Explorations and Associated Fishery Problems, by R. L. Rulifson and R. W. Schoning, Investigational Report No. 1, 46 pp., printed, 1963. Oregon Fish Commission, Portland, Oreg.

UNDERWATER OBSERVATIONS:

"A Self-Contained Portable Tape Recording System for Use by SCUBA Divers," by Lloyd R. Breslau, John M. Zeigler, and David M. Owen, article, Bulletin de l'Institut Oceanographique, no. 1235, 1962, pp. 1-4, printed. Institut de l'Institut Oceanographique Monaco-Ville, Monaco.

Undersea Photography in Marine Research, by R. E. Craig and R. Priestly, 1963 Marine Research No. 1, 27 pp., illus., printed, 15s. (about US\$2.10), 1963. Her Majesty's Stationery Office, 13A Castle St., Edinburgh 2, Scotland.

Underwater Photography, by Hilbert Schank and Harry Kendall, illus., printed. Camera Shop of the Maritimes Ltd., Halifax, N. S., Canada.

U. S. S. R.:

"Biologicheskije Rybokhozyaistvennyje Issledovaniya v Sibiri" (Biological Fishery Research in Siberia), by B. G. Ioganzen, article, Voprosy Ikhtiologii, vol. 2, no. 1, 1962, pp. 3-17, printed in Russian. Akademiya Nauk SSSR, Ikhtiologicheskaja Kommissaia, Moscow, U. S. S. R.

"Fish Culture in the U. S. S. R.," by Michael M. Ovchynnyk, article, Fishing News International, vol. 2, no. 3, July-September 1963, pp. 279-282, printed, single copy 6s. 6d. (about 81 J. S. cents). Arthur J. Heighway Publications Ltd., Ludgate House, 110 Fleet St., London EC4, England. The vast territory of the U. S. S. R. includes inland seas, about 25 million hectares of big and small lakes, about 4 million hectares of reservoirs, more than 3 million kilometers of rivers suitable for fishing, and more than 400,000 hectares of ponds suitable for fish culture. The Soviet authority announced that in 1962 about 800,000 metric tons of fish would be obtained from inland waters and that this amount will increase each year.

Fishing Economy 1962, Vol. 38, No. 6: (Selected Translations, OTS 63-21982, 24 pp., processed, 75 cents, June 5, 1963. (Translated from the Russian,

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Rybnoe Khoziaistvo, vol. 38, no. 6, 1962, pp. 3-7, (pp. 15-23.) Office of Technical Services, U. S. Department of Commerce, Washington, D. C., 20235.

Teoriya Rybnogo Khoziaistva Kak Razdel Biotekhniki i ee Polozhenie v Sisteme Nauk v Svyazi s Problemoi gidrostroitel'stva" (The Theoretical Basis of the Fishing Industry as a Division of Biotechnics and Its Position in the Scientific System in Relation to the Problem of Hydroelectrical Construction), by B. Berlyand, article, *Byull. Nauch.-Tekh. Inform. Vsesoyuz. Proektno-Izyskat. Nauch.-Issledovatel'skii Institut "Godoproekt."*, vol. 13, 1961, pp. 24-33, printed in Russian. Vsesoiuznyi Proektno-Izyskatel'skii Nauchnyi Issledovatel'skii Institut, Moscow, U. S. S. R.

UTAH:

Bibliography of Utah Aquatic Biology, No. II," by Carl M. Christensen, article, *The Great Basin Naturalist*, vol. XXII, nos. 1-3, 1962, pp. 32-53, printed. Department of Botany, Brigham Young University, Provo, Utah.

VESSELS:

Merchant Vessels of the United States, 1963 (Including Yachts), 1,224 pp., processed, \$7. Bureau of Customs, U. S. Treasury Department, Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Covers every American merchant vessel and yacht (including fishing vessels) which had an canceled document (register, enrollment and license, or license) on January 1, 1963. The official number, signal and radio-call letters, type of rig, name, tonnage, dimensions, place and date built, name of owner, and home port of every vessel are provided.

Small Boat Construction, by Robert M. Steward, printed, 1958. Rudder Publishing Co., 9 Murray St., New York 7, N. Y.

Small Seagoing Craft and Vessels for Inland Navigation; a Treatise on the Design and Construction of Sips and Boats Engaged in Inland Navigation, Coastwise Trade, Passenger- and Ferry-Services, Towing, Icebreaking, and Sea Fishing, by A. Roorda, 568 pp., illus., printed, 1957. Technical Publishing Co., Haarlem, Netherlands.

WASHINGTON:

Natural Resources of Washington, 75 pp., illus., printed, 50 cents. Division of Information, Office of the Secretary, U. S. Department of the Interior, Washington, D. C., 1963. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.) Discusses early exploration and settlement, physical characteristics, park and recreational resources, water and power resources, fish and wildlife resources, mineral resources, land resources, indian tribes, and geologic history. Also covers programs of Federal natural resource agencies--Bureau of Reclamation, Bonneville Power Administration, U. S. Army Corps of Engineers, Geological Survey, Bureau of Mines, Bureau of Indian Affairs, Bureau of Land Management, U. S. Forest Service, Fish and Wildlife Serv-

ice, National Park Service, and Bureau of Outdoor Recreation.

WHALES:

Bionics and Cetaceans, by A. C. Tomilin, OTS 63-13833, 3 pp., processed, January 10, 1963. (Translated from the Russian, *Trans. of Priroda*, vol. 51, no. 10, 1962, pp. 101-103.) Office of Technical Services, U. S. Department of Commerce, Independence Ave. and Ohio Dr. SW., Washington, D. C. 20235.

Ovulation Counts and Their Relation to Age and Stock Assessment in Female Fin Whales from British Columbia, by Gordon C. Pike, Manuscript Report Series (Biological) No. 752, 26 pp., printed, 1963. Fisheries Research Board of Canada, Biological Station, Nanaimo, B. C., Canada.

"Vitamin A Toxicity in Whale Liver," article, *Nutrition Reviews*, vol. 19, no. 10, 1961, pp. 318-319, printed. The Nutrition Foundation Inc., 99 Park Ave., New York 16, N. Y.

WHITEFISH:

"Life History of Whitefish Young (*Coregonus*) in Two Lake Reservoirs," by Thorolf Lindstrom, article, *Institute of Freshwater Research Report No. 44*, pp. 113-144, printed. Institute of Freshwater Research, Drottningholm, Sweden, 1962.

"The Tale of the Whitefish," by Russell McKee, article, *Michigan Conservation*, vol. XXXII, no. 5, September-October 1963, pp. 36-39, illus., printed. *Michigan Conservation*, Lansing 26, Mich. Whitefish numbers are again increasing in the Great Lakes. Two factors appear to be working in favor of this species: the sea lamprey may well be drastically reduced in the Upper Great Lakes by special control measures now in effect; and the record for the past 50 years indicates that whitefish may be ready for a surge in population within the next few years.

WHITE SUCKERS:

"Homing Tendency of Spawning White Suckers in Many Point Lake, Minnesota," by Donald E. Olson and Warren J. Scidmore, article, *Transactions of the American Fisheries Society*, vol. 92, no. 1, 1963, pp. 13-16, printed. Secretary, American Fisheries Society, P. O. Box 483, McLean, Va.

WORLD FISHERIES:

"Science and the Future of World Fisheries," by G. L. Kesteven, article, *Fishing News International*, vol. 2, no. 3, July-September 1963, pp. 289, 293, 295-296, printed, single copy 6s. 6d. (about 85 U. S. cents). Arthur J. Heighway Publications Ltd., Ludgate House, 110 Fleet St., London EC4, England. The author advances the view that stocktaking of fishery resources and fishery industries should be accelerated, and developed under international auspices. He believes that this work should be sponsored and organized by FAO's new resources' committee for which membership should be drawn from the existing fishery councils and commissions. The work in this stocktaking should be carried out largely by the councils and commissions which now provide a pattern covering the greater part of the earth's surface and its resources.