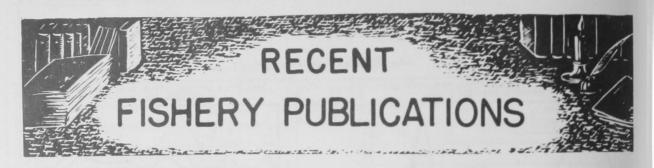
COMMERCIAL FISHERIES REVIEW

Vol. 20, No. 2



FISH AND WILDLIFE SERVICE PUBLICATIONS

THESE PROCESSED PUBLICATIONS ARE AVAILABLE FREE FROM THE DIVISION OF INFORMATION, U.S. FISH AND WILDLIFE SERV-ICE, WASHINGTON 25, D.C. TYPES OF PUBLICATIONS ARE DESIG-NATED AS FOLLOWS:

- CFS CURRENT FISHERY STATISTICS OF THE UNITED STATES
- AND ALASKA. STATISTICAL SECTION LISTS OF DEALERS IN AND PRO-DUCERS OF FISHERY PRODUCTS AND BYPRODUCTS. SI

- WL WILDLIFE LEAFLET. SSR FISH. SPECIAL SCIENT FIC REPORTS--FISHERIES (LIMITED DISTRIBUTION). SEP. SEPARATES (REPRINTS) FROM <u>COMMERCIAL</u> FISHERIES REVIEW.

Title

	Number		Title	
0	CFS-1614	-	Alaska Fisheries, 1956 Annual Sum-	
			mary, 8 pp.	
			Mississippi Landings, July 1957, 2 pp.	
	CFS-1648	-	Massachusetts Landings, 1956 Annual	
			Summary, 16 pp.	
	CFS-1653	-	Louisiana Landings, July 1957, 2 pp.	
			California Landings, June 1957, 4 pp.	
			Middle Atlantic Fisheries, 1956 Annu-	
			al Summary, 9 pp.	
	CFS-1659	-	Ohio Landings, September 1957, 2 pp.	
			Florida Landings, August 1957, 6 pp.	
	CFS-1661		New York Landings, July 1957, 4 pp.	
	CFS-1662	-	New York Landings, August 1957, 4 pp.	
	CFS-1663		Louisiana Landings, August 1957, 2 pp.	
	CFS-1665	-	North Carolina Landings, September	
			1957, 3 pp.	
	CFS-1666	-	Georgia Landings, September 1957, 2 pp.	
			Mississippi Landings, August 1957, 2 pp.	
	CFS-1668	-	South Carolina Landings, September	
			1957, 2 pp.	
	CFS-1669	-	Frozen Fish Report, October 1957, 8 pp.	
	CFS-1670	-	New Jersey Landings, September 1957,	
			3 pp.	
	CFS-1671	-	Shrimp Landings, July 1957, 6 pp.	
	CFS-1673	-	California Landings, July 1957, 4 pp.	
	CFS-1674	-	Rhode Island Landings, September	
			1957, 3 pp.	
	CFS-1675	-	Maine Landings, September 1957, 3 pp.	
	CFS-1676	-	New England Fisheries, 1956 Annual	
			Summary, 7 pp.	
	CFS-1677	-	Florida Landings, September 1957, 6 pp.	
	CFS-1679	-	New York Landings, September 1957,	
			4 pp.	
	CFS-1682	-	North Carolina Landings, October	
			1957, 3 pp.	
	1171 1 1	-		
Wholesale Dealers in Fishery Products (Revised): SL-10 - Maryland, 1957.				
	SL-10 - Maryland, 1957.			

- SL-21 California, 1957.
- WL-391 Selected List of Fish and Wildlife Materials for Conservation Education, 2 pp.

SSR-Fish, No. 227 - English Translations of Fishery Literature, Additional Listings, 1957, by Leslie W. Scattergood, 66 pp., August 1957.

Sep. No. 497 - Sodium and Potassium in the Edible Portions of 34 Species of Fish.

- Sep. No. 498 Comparative Keeping Quality, Cooling Rates, and Storage Temperatures of Haddock Held in Fresh-Water Ice and in Salt-Water Ice.
- Sep. No. 499 Research in Service Laboratories (January 1958): Contains these articles --"Progress on Studies in Utilization of Fish-Oil Derivatives in Ore Flotation;" "Development of Objective Tests for Quality of Fresh, Frozen and Processed Fish (Nontechnical Summary); "Technical Note No. 42 - Keeping Quality and Rate of Freezing of Cooked Deep-Sea Lobster Meat Frozen in Cans;" and "Tests on Storageof Frozen Shrimp Show that Proper Packaging 'Pays Off'.

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

- Boston Fishery Products Monthly Summary, No-vember 1957, 15 pp. (Market News Service, U. S. Fish and Wildlife Service, 10 Commonwealth Pier, Boston 10, Mass.) Landings and ex-vessel prices by species for fares landedat the Boston Fish Pier and sold through the New England Fish Exchange; and Boston frozenfishery products prices to primary wholesalers; for the month indicated.
- California Fishery Products Monthly Summary, October 1957, 10 pp. (Market News Service, U. S. Fish and Wildlife Service, Post Office Bldg., San Pedro, Calif.) California canneryreceipts of raw tuna and tunalike fish, herring, mackerel, anchovies, and squid; pack of canned tuna, herring, mackerel, anchovies, and squid; market fish receipts at San Pedro, Santa Monica, San Diego, and Eureka areas; California imports; canned fish and frozen fish prices; for the month indicated.
- (Chicago) Monthly Summary of Chicago's Fresh and Frozen Fishery Products Receipts and Wholesale Market Prices, October 1957, 12 pp (Market News Service, U. S. Fish and Wildlife 12 pp. Service, 565 W. Washington St., Chicago 6, Ill.) Receipts at Chicago by species and by states and provinces; fresh-water fish, shrimp, and frozen fillet wholesale market prices; for the month indicated.

Mumbon

- Gulf Monthly Landings, Production, and Shipments of Fishery Products, November 1957, 5 pp. (Market News Service, U. S. Fish and Wildlife Service, 609-611 Federal Bldg., New Orleans 12, La.) Gulf States shrimp, oyster, finfish, and blue crab landings; crab meat production; LCL express shipments from New Orleans; and wholesale prices of fish and shellfish on the New Orleans French Market; for the month indicated.
- Monthly Summary of Fishery Products Production in Selected Areas of Virginia, North Carolina, and Maryland, November 1957, 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, Ocean City, and Cambridge; and the North Carolina areas of Atlantic, Beaufort, and Morehead City; together with cumulative and comparative data; for the month indicated.
- (Seattle) Monthly Summary Fishery Products, October 1957; November 1957; 7 pp. each. (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; for the months indicated.
- Production of Fishery Products in Selected Areas of Virginia, Maryland, and North Carolina, 1956 (As Reported to Hampton Fishery Market News Office), by William N. Kelly, 18 pp., processed. (Available free from the Market News Service, U. S. Fish and Wildlife Service, 18 S. King St., Hampton, Va.) A summary of commercial landings of fish and shellfish and the production of crab meat and shucked oysters as reported by producers and wholesalers from selected principal fishing localities of Virginia, Maryland, and North Carolina. The statistics contained in this annual summary represent the approximate commercial fisheries production only and do not represent complete commercial landings or production for a given area, individual State, or the Chesapeake Bay area as a whole. However, the statistics do give an indication as to the trend in fisheries production for the specific areas designated and do reflect the over-all production trend by species, localities, and by states.

Special Reports on Halibut and Salmon Prices for Alaska, Seattle, and British Columbia, 1957-1956, 1 p. each, processed. (Available free from the Market News Service, U. S. Fish and Wildlife Service, Pier 42 South, Seattle 4, Wash.) Certain Supplementary Market News Reports giving data for the past two to four years for the halibut and troll salmon fishery. Seattle Ex-Vessel Halibut Prices, 1954-1957, shows the ex-vessel weekly range of halibut prices at Seattle and weekly landings at that port for 1954-1957 (Supplementary Market News Report, November 4, 1957). Seattle Salmon Exchange Troll Salmon Prices, 1956-1957, shows the ex-vessel weekly range of troll salmon prices at Seattle and weekly landings at that port for 1956-1957 (Supplementary Market News Report, November 8, 1957). Alaska Ex-Vessel Halibut Prices, 1956-1957; Alaska Troll Salmon Ex-Vessel Prices, 1956-1957, shows the ex-vessel weekly range of prices in Alaska by ports, 1956-1957 (Supplementary Market News Report, November 13, 1957). United States and Canadian Ex-Vessel Halibut Prices at Prince Rupert, 1956-1957; Canadian Ex-Vessel Halibut Prices at Vancouver, British Columbia, 1956-1957, shows the ex-vessel weekly range of halibut prices at Prince Rupert and Vancouver, British Columbia, 1956-1957 (Supplementary Market News Report, November 18, 1957).

- THE FOLLOWING SERVICE PUBLICATIONS ARE FOR SALE AND ARE AVAILABLE ONLY FROM THE SUPERINTENDENT OF DOCUMENTS, WASHINGTON 25, D. C.
- Fecundity of North American Salmonidae, by George A. Rounsefell, Fishery Bulletin 122 (From Fishery Bulletin of the Fish and Wildlife Service, vol. 57), 20 pp., illus., printed, 20 cents, 1957.
- Fecundity of the Pacific Sardine (SARDINOPS CAERULEA), by John S. MacGregor, Fishery Bulletin 121 (From the Fishery Bulletin of the Fish and Wildlife Service, vol. 57), 26 pp., illus., printed, 25 cents, 1957.
- Growth Rate of Browns Bank Haddock, by John P. Wise, Research Report 50, 15 pp., illus., printed, 1957, 10 cents. The objective of this paper is to present the results of a study of the population dynamics of the haddock stock of Browns Bank. A study of the growth rate of Browns Bank haddock, by a method of back-calculations from haddock scales taken from fish that ranged in age from 4 to more than 10 years old, reveals that the growth rate is considerably slower than that for haddock on Georges Bank, but faster than that previously determined for haddock from Nova Scotia.

MISCELLANEOUS

PUBLICATIONS

THESE PUBLICATIONS <u>ARE NOT AVAILABLE FROM THE FISH AND</u> <u>WIEDLIFE SERVICE, BUT</u> USUALLY MAY BE OBTAINED FROM THE OR-GANIZATION ISSUING THEM. CORRESPONDENCE REGARDING PUBLICA-TIONS THAT FOLLOW SHOULD BE ADDRESSED TO THE RESPECTIVE OR-GANIZATION OR PUBLISHER MENTIONED. DATA ON PRICES, IF READ-ILY AVAILABLE, ARE SHOWN.

ALMANAC:

The American Ephemeris and Nautical Almanac for the Year 1959, 589 pp., printed, \$4.25. Nautical Almanac Office, U. S. Naval Observatory, Washington, D. C. (For sale by Superintendent of Documents, Government Printing Office, Washington 25, D. C.)

ARGENTINA:

La Pesca en la Republica Argentina Durante el Ano 1952 (The Fish of the Republic of Argentina during the Year 1952), by Rogelio B. Lopez, 24 pp., illus., printed. (Reprinted from Revista del Museo Municipal de Ciencias Naturales y Tradicional de Mar del Plata, volume 1, entrega 2, pp., 26-49, 6 figs.) Mar del Plata, Republica Argentina, Diciembre 1954.

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AUSTRALIA

- Australian Fisheries Statistics (excluding Whaling and Pearling Statistics), 1951/52-1955/56,54 pp. of tables, processed. Fisheries Division, Department of Primary Industry, Canberra, Australia, September 1, 1957. This report, which is all statistical, covers Australian statistics on the following fisheries production by states, species groups, and most important commercial species; vessels and equipment used and number of persons engaged in the fisheries; fish processing; imports of fresh or refrigerated fish and shellfish for all Australia as well as for selected areas; imports of smoked, dried, and salted fish; imports of canned herring, salmon, sardines, and other canned fish and shellfish; potted or concentrated fish, including extracts and caviars; imports of fishery products from principal foreign sources; and exports of oysters, crustaceans, and canned fish and shellfish.
- Manufacturing Industries, 1955-56. No. 23--Meat and Fish Preserving, by S. R. Carver, 9 pp., processed. Commonwealth Bureau of Census and Statistics, Canberra, Australia, September 17, 1957. Contains a summary for the years 1938-39, 1945-46, and 1953-54 to 1955-56 of the principal statistics of the factories in Australia engaged in meat and fish preserving. Also contains statistics on average salaries, output, and production; quantity and value of the principal articles produced; number of persons employed in each factory; and imports and exports of canned fishery products.
- Report by the Chief Secretary on the Fisheries in New South Wales, for the Year Ended 30th of June, 1955, 38 pp., illus., printed. Government Printer, Sydney, New South Wales, Australia, 1956.

BYPRODUCTS:

Reduction Industry in B. C.," by L. G. Swann, article, Trade News, vol. 10, no. 4, October 1957, pp. 3-5, illus., printed. Department of Fisheries, Ottawa, Canada. Describes the operation of fish reduction plants in British Columbia which utilize huge catches of Pacific herring. In all reduction plants the fish travels through the plant in planned progression from the fish boat or packer, until it emerges in bags as meal or into tanks as oil and condensed fish solubles. This article describes each step in the reduction process, the improved techniques, and the former and present uses of the products produced in fish reduction plants.

CANADA:

Fisheries Statistics of Canada, 1956 (British Co-lumbia), 14 pp., illus., printed in French and English, 25 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada, 1957. Contains tables giving the quantity and value of fishery products landed in British Columbia in 1949-56, by species and by fisheries districts; quantity and value of manufactured fishery products for 1955-56; capital equipment in the primary fisheries operations; and the number of fishermen engaged in the primary fisheries operations.

- Fisheries Statistics of Canada, 1955 (Quebec), 73 pp., illus., printed in French and English. 50 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada, 1957. Consists of tables giving the quantity and value of the principal species of fish and shellfish in Quebec in 1952-55; quantity and value of landings by species and fisheries districts, 1954-55; quantity and value of manufactured fishery products by species and fisheries districts, 1954-55; capital equipment in the primaryfisheries operations by fisheries districts, 1954-55; and number of persons engaged in the fisheries by fisheries districts, 1954-55.
- Fisheries Statistics of Canada, 1956 (Prince Edward Island), 22 pp., illus., printed in French and English, 25 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada, 1957. Contains tables giving the value of fishery products landed in Prince Edward Islandin 1949-1956, by species; quantity and value by species and fisheries districts; quantity and value of manufactured fishery products by species and fisheries districts, 1955-56; capital equipment in the primary fisheries operations; and the number of fishermen engaged in the primary fisheries operations.
- Progress Reports of the Atlantic Coast Stations, no. 66, 26 pp., illus., printed in French and English. Queen's Printer and Controller of Stationery, Ottawa, Canada, September 1957. Contains the following articles: "An Experimental Mechanical Shellfish-Digger," by L. M. Dickie and J. S. MacPhail; "Frozen Storage of Plaice for Subsequent Thawing and Filleting," by W. J. Dyer, W. A. MacCallum, and Doris I. Fraser; "Chlorination in Fish Plants," by H. P. Dussault; "Changes Occurring in the Fat during the Proc-essing of Salt Fish," by Aime Cardin and M.A. Bordeleau; "Two Varieties of Redfish in the Newfoundland Area," by W. Templeman and E. J. Sandeman; and "How Temperature and Crowding Affect the Holding of Lobsters in Ar-tificial Sea Water," by D. G. Wilder and D. W. McLeese.
- Tenth Annual Report of the Fisheries Prices Support Board for the Year 1956-57, 9 pp., printed. Queen's Printer and Controller of Stationery, Ottawa, Canada, 1957. This report covers the Fisheries Prices Support Act; the Canadian fisheries in 1956; the marketing of freshwater and saltwater fishery products in 1956; and Board activities in fisheries salt assistance, the fishermen's indemnity plan, and research.

COMMISSIONS:

Gulf States Marine Fisheries Commission Eighth Annual Meeting (Meeting Minutes), 49 pp., proc-essed. Gulf States Marine Fisheries Commission, 312 Audubon Bldg., New Orleans 16, La. The minutes of the Commission's eighth annual meeting which was held in Mobile, Ala., on October 10-11, 1957. Contains resumes of fisheries activities reports for the year 1956-57 for Alabama, Florida, Louisiana, Mississippi, and Texas. The following surveys are discussed: Aransas Bay shrimp; industrial waste control;

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Mesquite Bay project; mud shell resource; Sabine Lake ecological study; Galveston Bay, Matagorda Bay, and Lower Laguna Madre projects; Gulf oyster investigations; Gulf fisheries exploration and gear research; Gulf fishery statistical program; and Gulf fisheries investigations. Reports from some of the representatives attending the meetings are also presented.

DEHYDRATION:

"Some Recent Work on Dehydration in the United Kingdom," by D. G. V. Gooding and E. J. Rolfe, article <u>Food Technology</u>, vol. 11, June 1957, pp. 302-306, printed. Institute of Food Technologists, 176 W. Adams St., Chicago, Ill.

EXPORTS:

Schedule B--Statistical Classification of Domestic and Foreign Commodities Exported from the <u>United States</u>, January 1, 1958 Edition, 586 pp., printed, \$6.00 domestic and 7.50 foreign. Foreign Trade Division, Bureau of the Census, U. S. Department of Commerce, Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.) Schedule B is the statistical classification of commodities exported from the United States used in compiling the official United States foreign trade statistics. It shows for each commodity description (including fishery products and related commodities) the commodity code numbers to be shown on shipper's export declaration forms. In addition it shows the country designations, customs districts, ports, quantity and conversion factors, economic classes, group and subgroup classifications, and units of quantity used in compiling the statistics. Schedule B is printed in looseleafform and its cost includes supplemental bulletins and pages to keep it up to date for an indefinite period of time.

FAO:

Expanded Technical Assistance Program (Report by the Director-General), Item 7(b) of the Provisional Agenda, C 57/30, 17 pp., printed. Food and Agriculture Organization of the United Nations, Rome, Italy, August 30, 1957.

Report of the General Fisheries Council for the Mediterranean to the FAO Conference (Period from 1 October 1955 to 1 October 1957), Item 7 of the Provisional Agenda, C 57/28, 10 pp., printed. Food and Agriculture Organization of the United Nations, Rome, Italy, September 30, 1957.

The State of Food and Agriculture, 1957, 171 pp., illus., printed, US\$2. Food and Agriculture Organization of the United Nations, Rome, Italy. (For sale by International Documents Service, Columbia University Press, 2960 Broadway, New York 27, N. Y.)

The Work of FAO, 1956-1957 (Report to the Director-General), 92 pp., printed. Food and Agriculture Organization of the United Nations, Rome, Italy, June 1957.

GEAR:

C

Mediterranean Trawling, Preliminary Observa-

tions in the Study of Italian Trawl Nets, Studies and Reviews No. 2, 20 pp., illus., processed. GFCM Secretariat, Food and Agriculture Organization of the United Nations, Rome, Italy, September 1957. Presents the text of a working paper entitled "Mediterranean Trawling, a Proposed Rational Study with a View to Improved Efficiency," by H. Kristjonsson, which was discussed at the 4th meeting of the General Fisheries Council for the Mediterranean at Istanbul on September 17-22, 1956. This paper stressed that it would be of great advantage to improve the efficiency of the Mediterranean trawl through a rational study, and proposed a working plan in this connection. Some of the points included in this plan of work have been implemented, and this report presents the objectives and summary of some preliminary observations.

Some Problems in the Theory of the Capture of Fish by Gill Nets, by N. N. Andreev, 30 pp., processed. (Reprinted from Proceedings of the All-Union Scientific Research Institute of Sea Fishery and Oceanography, Vol. XXX, 1955, pp. 109-127.) Ministry of Agriculture, Fisheries and Food, Fisheries Laboratory, Lowestoft, England.

GERMAN FEDERAL REPUBLIC:

Jahresbericht uber die Deutsche Fischerei, 1956 (Yearbook of the German Fisheries, 1956), 304 pp., illus., printed in German, DM20 (US\$5). Verlag Gebr. Mann, Berlin-Schoneberg, Germany, October 1957.

HALIBUT:

Regulation and Investigation of the Pacific Halibut Fishery in 1956, Report of the International Pacific Halibut Commission No. 25, 27 pp., illus., printed. International Pacific Halibut Commission, Seattle, Wash., 1957. A brief report of activities of the Commission during 1956 which discusses the historical background of the Commission, 1956 regulations, statistics of the fishery, catch per unit of fishing effort, multiple open seasons, composition of catches, growth rate studies, tagging experiments, and studies of subcommercial size halibut. Also contains an article entitled "Investigations of Small Halibut in September 1955," by William H. Hardman and G. Morris Southward.

HERRING:

The Food and Feeding Habits of Larval and Post-Larval Herring in the Northern North Sea, by R. N. Bhattacharyya, Marine Research No. 3--1957, 19 pp., illus., printed, 7s. (68 U.S. cents). Her Majesty's Stationery Office, Edinburgh, Scotland, 1957.

Prospects for the 1957/58 Herring Fishing Season, Circular No. 45, 7 pp., illus., processed. Fisheries Research Board of Canada, Pacific Biological Station, Nanaimo, B.C., Canada, July 1957.

JAPAN:

Collected Reprints, 1956 (from the Tokai Regional Fisheries Research Laboratory), 155 pp., illus., printed in Japanese with English summaries.

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Tokai Regional Fisheries Research Laboratory, | Tsukishima, Chuo-ku, Tokyo, Japan. Contains, among others, the following reprints of articles published by Laboratory scientists other than in the publications of the Laboratory: "Estimation of Annual Catches of Sardine and Anchovy in Japan, 1926-50--Using the Amounts of Processed Iwashi Products;" "Resistance of Plane Net Against Flow of Water. III--Effect of Kind of Fibers on the Resistance of Net;" "Resistance of Plane Net Against Flow of Water. V--On the Inclination of Net in a Current;""An Attempt at Measuring Deformation of the Set Net by a Fish Finder (Preliminary Report); "On the Denaturation of Fish Muscle Protein by Dehydration;" "On the Extractability of Muscle Proteins of Marine Animals;" "Vitamin A in Fish Meat. V--Relation between Vitamin A and Carotenoid Pigment in the Skin of Mackerel;" "The Vitamin B₆ Content of Fish Meat;" "Stud-ies on the Economical Manufacture of Vitamin A Concentrate from Fish Liver Oil. VII--Esterification of Vitamin A Concentrate, 2--Ace-tylation with Ketene;" "Studies on the Preservation of Fish Cakes. IV -- Factors Involved in Preservative Effect of Carbon Dioxide;" "Photomicrographic Examination of Fish Meat Jelly; and "Studies on Utilization of the Liver Oil of Deep Sea Sharks. XII--Preparation of Polymerized Product from Squalene. (1) Polymerization of Squalene Using Acid Clayas Catalyst."

General Aspect of Trawl Fisheries in the Japan Sea, by Gendi Katoh, Ichiro Yamanaka, Akira Ouchi, and Tetsuo Ogata, Bulletin of the Japan Sea Regional Fisheries Research Laboratory, No. 4, 331 pp., printed in Japanese with a separate 11-page summary in English. Japan Sea Fisheries Research Laboratory, Niigata, Japan, October 1956.

MULLET:

Fluctuations in Catch of the Yellow-Eye Mullet, ALDRICHETTA FORSTERI(Cuvier & Valenciennes), (Mugilidae) by J. M. Thomson, Division of Fish and Oceanography Report 1, 15 pp., illus., processed. Marine Biological Laboratory, Cronulla, Sydney, Australia, August 1956.

NETHERLANDS:

Onderzoek Naar de Bedrijfsresultaten van de Kleine-Zeevisserij in 1954 en 1955 (Research Results on Cost of Production in the Coastal Fisheries in 1954 and 1955), Rapport No. 256, 101 pp., illus., processed in Dutch. Lanbouw-Economisch Instituut, s-Gravenhage, Netherlands.

NYASALAND:

Annual Report of the Department of Game, Fish and Tsetse Control for the Year 1956, 18 pp., printed. The Government Printer, Zomba, Nyasaland, 1957. The section on fisheries discusses the state of the fish stocks, the non-African fishery, the African fishery, fish trade, developmental and experimental work, fisheries research organization, trout fishing, and fish farming. Statistics are also given on landings of the different species of fish in the non-African and African fisheries. OCEANOGRAPHY:

Heat Transport of the Florida Current (Final Report submitted to National Science Foundation), by Frank Chew, L. P. Wagner, and Robert C. Work, Report 57-21, 39 pp., illus., processed. The Marine Laboratory, University of Miami, Coral Gables, Fla., September 1957.

OHIO:

The Fishes of Ohio, by Milton B. Trautman, 700 pp., illus., printed, \$6.50 (plus 30 cents postage; Ohio residents, 20 cents more for sales The Ohio State University Press, Columtax). bus 10, Ohio. Contains 7 full-page color plates showing 21 species of fishes, more than 800 black and white illustrations, including 190 detailed original drawings of fishes to scale and 172 distribution maps. Includes keys for identification of all fishes of Ohio and many species in neighboring states. Has chapters on common and scientific names of fishes, fish hybridization, collecting and preserving fish, changes in land use and stream conditions since 1750, factors influencing fish distribution and abundance, and reasons for changes in fish distribution and abundance since 1750.

PHYSIOLOGY:

- The Physiology of Fishes. Vol. 1--Metabolism, edited by Margaret E. Brown, printed, \$12. Academic Press Inc., 111 Fifth Ave., New York 3, N. Y. The first of two volumes containing reviews of what is known at present of fish physiology. The papers cover respiration, the cardiovascular and digestive systems, endocrine organs, reproduction, growth studies, and biochemical composition of fish.
- The Physiology of Fishes: Vol. 2--Behavior, edited by Margaret E. Brown, 537 pp., illus., printed, \$11. Academic Press Inc., 111 Fifth Ave., New York 3, N. Y., 1957.

PLANKTON:

Pelagic Polychaetes of the Pacific Ocean, by R. Phillips Dales, 72 pp., illus., printed, \$3. (Reprinted from Bulletin of the Scripps Institution of Oceanography, vol. 7, no. 2, pp. 99-168.) University of California Press, Berkeley 4, Calif., 1957.

The South African Pilchard (SARDINOPS OCEL-LATA) and Maasbanker (TRACHURUS TRA-CHURUS)--Variations in the Phytoplankton of the St. Helena Bay Area During 1954, by B. v. D. de Jager, Investigational Report No. 25, 78 pp., illus., printed. (Reprinted from Commerce and Industry, April 1957.) Division of Fisheries, Beach Road, Sea Point, Cape Town, Union of South Africa, 1957.

PRESERVATION:

Bulletin of the Japan Sea Regional Fisheries Research Laboratory, Fisheries Agency, No. 5, 109 pp., illus., printed in Japanese with summaries in English. Japan Sea Regional Fisheries Research Laboratory, Niigata, Japan, March 1957. Contains the following two articles: "I. A study on the Freshness of Fish Meat with Special Reference to the Determination THESE PUBLICATIONS ARE NOT AVAILABLE FROM THE FISH AND WILDLIFE SERVICE, BUT USUALLY MAY BE OBTAINED FROM THE ORGANIZATION ISSUING THEM.

of Rigor Mortis," and "II. A Study on the Vac-uum and the Grade of Tomato-Sardine for the Export Inspection;" both by Elizaburo Noguchi.

PRESERVATION BY IRRADIATION: "Food Irradiation Makes Strides," by Lt. Col. George E. Danald, article, Food Engineering, vol. 29, no. 12, December 1957, pp. 57-59, illus, printed, single copy \$1.00. Mcgraw-Hill Publishing Co., Inc., 330 W. 42nd St., New York 36, N. Y. Discusses the progress highlights of the project on radiation and preservation of foods undertaken by the U.S. Quartermaster Corps' Food and Container Institute. The summarized accomplishments of the last two years of research cover effects of radiation on foods; tests with human volunteers to establish wholesomeness and nutritional adequacy of irradiated foods; packaging; and radiation sources. Among the fishery products mentioned as included in the tests are oysters, shrimp, halibut, cod cakes, and cod.

RECIPES:

The Tuesday Book of Fish Recipes, compiled by Jean Conil, written by Nan van den Hoek, 31 pp., illus., printed. The British Trawlers' Federa-tion, Ltd., Hull, England. A booklet of fish rec-ipes, beautifully illustrated in color and prepared for distribution by retail fish dealers, suggesting that Tuesday be chosen as a second fresh-fish day. These recipes have been care-fully selected for variety, economy, and simplicity. In addition to the recipes for cooking cod, haddock, halibut, and other fish, suggestions are given for buying wisely. Instructions are also given for keeping fish until ready for use, and the preparation and basic ways of cooking fish.

SALMON:

Biology of the Salmon," by A. E. J. Went, article, Nature, vol. 180, no. 4590, October 19, 1957, pp. 789-790, printed. St. Martin's Press, Inc., 103 Park Ave., New York 17, N. Y. The author describes his paper, entitled "Salmon Investigations in Ireland, with Particular Ref-erence to the River Shannon," which opened the symposium on the biology of the salmon, held in Dublin on Sector has 10. Dublin on September 10. The author then describes the other papers which composed the symposium.

Pacific Salmon -- The Table of Hatchings and Releasings Number in Each River System in Hokkaido, 1927-1955, 91 pp., printed in Japanese and English. Hokkaido Salmon Hatchery, Nakonoshima, Sapporo, Hokkaido, Japan, 1956.

SARDINES:

The South African Pilchard (SARDINOPS OCEL-LATA)--Size Composition of the Commercial Catches, 1950-55, by D. H. Davies, Investigational Report No. 26, 59 pp., illus., printed. (Reprinted from Commerce and Industry, May 1957.) Division of Fisheries, Beach Road, Sea Point, Cape Town, Union of South Africa.

Standardization of Biometric and Observation Methods for Clupeidae (especially SARDINA

PILCHARDUS) Used in Fisheries Biology, Studies and Reviews No. 1, 47 pp., illus., processed. GFCM Secretariat, Food and Agriculture Organization of the United Nations, Rome, Italy.

SCALLOPS:

Offshore Scallop Explorations -- 1957, by G. M. Somerville and L. M. Dickie, General Series Circular No. 30, 4 pp., illus., printed. Fisher-ies Research Board of Canada, Biological Station, St. Andrews, N. B., Canada. Describes scallop explorations during 1957 which discovered two new commercially-valuable beds on the southern part of St. Pierre Bank. In referring to the larger of the new beds, the authors believed "that fishing on this bed now is profitable--better than on Georges Bank. But the bed is small so it seems likely that catches will soon fall to Georges Bank levels if it is fished intensively. However, there are several ageclasses represented in the population and growth is fairly fast. It is, therefore, likely that good catches can be made there for a short time each year for several years." The survey also in-cluded areas off Nova Scotia where scallops were found. The authors stated that "In general Nova Scotia banks do not support large concentrations of scallops. Large boats would not find them worth fishing as long as Georges Bank and St. Pierre Bank stocks are available. However, it is possible that small boats, such as those employed in long-lining, or engaged in scallop-ing in the Bay of Fundy, could make profitable catches."

A Review of the Scallop Fishery, by L. A. St. Leger, 3 pp., printed. (Reprinted from the Tasmanian Journal of Agriculture, August 1957, pp. 275-277.) Government Printer, Tasmania. Presents the history of the scallop fishery of Tasmania as well as the present condition of the fishery and predictions for its future.

SCULPINS:

Classification, Variation, and Distribution of the Sculpins, Genus COTTUS, Inhabiting Pacific Slope Waters in California and Southern Oregon, with a Key to the Species, by C. Richard Robins and Robert Rush Miller, 21 pp., illus., printed. (Reprinted from California Fish and Game, vol. 43, no. 3, July 1957, pp. 213-233.) The Marine Laboratory, University of Miami, Coral Gables, Fla.

SHARKS:

"Studies on Utilization of the Liver Oil of Deep Sea Sharks," by Hedeo Higashi, Shigeo Iseki, and Motoaki Asano, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 22, no. 6, 1956, pp. 378-382, illus., printed in Japanese with summary in English. Japanese Society of Scientific Fisheries, Tokyo, Japan.

A Study of the Sharks of the Suborder Squaloidea, by Henry B. Bigelow and William C. Schroeder, Bulletin of the Museum of Comparative Zoology at Harvard College, Vol. 117, No. 1, 150 pp., illus., with four photographic plates, printed. Museum of Comparative Zoology, Harvard College, Cambridge, Mass., August 1957.

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

SHRIMP:

The Commercial Shrimp Industry of Florida, by Clarence P. Idyll, Educational Series No. 6, 30 pp., illus., printed (originally issued March 1950, reissued August 1957). State Board of Conservation, Tallahassee, Fla. The purpose of this report when it was originally issued in. 1950 was to summarize knowledge of the shrimp to assist the industry and the public in gaining an understanding of Florida's most important marine resource. The present issue has brought up to date information on this valuable industry. It describes and illustrates the different kinds of commercial shrimp and the spawning and development of shrimp. This report also gives information on where the shrimp are found; how they are caught; the value of the shrimp industry; the handling, shipping, and processing methods; and the use of shrimp as live bait. Regulation of the shrimp industry is also discussed.

UNITED NATIONS:

Fishery Programmes in Relation to Agricultural and Economic Planning, E/CN.11/DPWP.3/L.9 (Limited), 14 pp., printed. Economic Commission for Asia and the Far East, United Nations, New York, N.Y., September 19, 1957.

UNITED KINGDOM:

Report of the Fisheries Organization Society, Ltd., for the Year Ended 31st December 1956, illus., printed. Fisheries Organization Society, Ltd., Denison House, Vauxhall Bridge Rd., Westminster, London, S. W. 1, England. The present report contains an outline of the objectives of the Fisheries Organization Society and covers the work of the Society among the inshore fishermen of England and Wales during the year 1956. It discusses the purpose of the Fishermen's Societies, how they are formed, and how they function. The report also outlines the operations of established Societies.

VIRGINIA:

The Bounty of the Chesapeake -- Fishing in Colonial Virginia, by James Wharton, 78 pp., illus., printed, 50 cents. Virginia 350th Anniversary Celebration Corporation, Williamsburg, Va., 1957.



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