



RECENT FISHERY PUBLICATIONS

FISH AND WILDLIFE SERVICE PUBLICATIONS

THESE PROCESSED PUBLICATIONS ARE AVAILABLE FREE FROM THE DIVISION OF INFORMATION, U. S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C. TYPES OF PUBLICATIONS ARE DESIGNATED AS FOLLOWS:

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

Number	Title
CFS-1442	Massachusetts Landings, July 1956, 4 pp.
CFS-1451	Frozen Fish Report, November 1956, 7 pp.
CFS-1457	Rhode Island Landings, August 1956, 2 pp.
CFS-1458	Maine Landings, October 1956, 3 pp.
CFS-1459	Ohio Landings, November 1956, 1 pp.
CFS-1462	North Carolina Landings, November 1956, 2 pp.

Wholesale Dealers in Fishery Products (Revised):

- SL-7 - New Jersey, 1956, 4 pp.
 - SL-22 - Oregon, 1956, 4 pp.
 - SL-23 - Washington, 1956, 7 pp.
 - SL-24 - Minnesota, Lakes Area, 1956, 1 p.
 - SL-28 - Michigan, 1956, 4 pp.
 - SL-34 - Wisconsin, Mississippi River and Tributaries Area, 1956, 2 pp.
 - SL-36 - Iowa, Mississippi River and Tributaries Area, 1956, 2 pp.
 - SL-39 - Tennessee, 1956, 1 p.
 - SL-40 - Oklahoma, 1956, 1 p.
 - SL-41 - Arkansas, 1956, 1 p.
 - SL-43 - Alabama, Mississippi River and Tributaries Area, 1956, 1 p.
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- FL -437 - Assembly Methods for Otter-Trawl Nets, 29 pp., December 1956.
 - FL -438 - Fishery Motion Pictures, 16 pp., 1956.
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- SSR-Fish. No. 186 - Sardine Eggs and Larvae and Other Fish Larvae, Pacific Coast, 1954, by Elbert H. Ahlstrom and David Kramer, 79 pp., processed, November 1956.

- SSR-Fish. No. 188 - Relative Areal Zooplankton Abundance off the Pacific Coast, by James R. Thraikill, 87 pp., illus., processed, November 1956.

- Sep. No. 464 - Development of "Honeycombing" in Hawaiian Skipjack Tuna.
- Sep. No. 465 - Shrimp Explorations Off the Washington Coast, Fall 1955 and Spring 1956.
- Sep. No. 466 - Chemical Compounds Formed During the Spoilage of Fish.
- Sep. No. 467 - Technical Note No. 36 - Determining Fish Content of Frozen Fried Fish Sticks.

THE FOLLOWING SERVICE PUBLICATIONS ARE FOR SALE AND ARE AVAILABLE ONLY FROM THE SUPERINTENDENT OF DOCUMENTS, WASHINGTON 25, D. C.

"Fish Foods Purchased for Federal Hatcheries in 1955, Compared with 1945 and 1949," by William Hagen, Jr., article, The Progressive Fish-Culturist, vol. 19, no. 1, January 1957, pp. 32-39, processed, single copy 25 cents. Statistics are given on the quantity and cost of the various kinds of fish food purchased for Federal hatcheries in 1955, compared with 1945 and 1949. The constantly increasing requirement for catchable-size trout for the stocking of Federal waters and the expansion of the salmon program to meet the threat of dams on the west coast were responsible for the greatly increased production. The expansion of existing facilities and the erection of a few new hatcheries provided the space for additional production. Also to be considered is the dietary improvement that resulted in a more favorable conversion of food to fish, as well as the ability to produce more pounds of fish per cubic foot of rearing space, and per gallon of water inflow, with more modern methods.

"Production During Intensive Carp Culture in Japan," by N. Y. Kawamoto, article, The Progressive Fish-Culturist, vol. 19, no. 1, January 1957, pp. 26-31, illus., processed, single copy 25 cents. Describes a study of the relation between the productive capacity and the various conditions of a farm or pond in Japan, famous for intensive carp culture. Various conditions of an intensively managed carp farm were studied, and its productivity was considered from the physiological point of view. The rate of production of carp was higher in this farm than in any other farm in Japan. There was much more oxygen in the water entering the ponds than was needed by the carp. The author states that, "Because of the high values of pH in the water, it is believed that in these ponds carbon dioxide did not affect the carp. The rate of production in the ponds may have been affected by the pres-

ence of substances excreted by the carp. It is believed that, for increased production of carp, removal of excretory substances is more important than factors such as oxygen or carbon dioxide in the water."

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

Gulf Monthly Landings, Production, and Shipments of Fishery Products, December 1956, 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.

(New York) Monthly Summary-October 1956--Receipts of Fishery Products at the New York City Wholesale Salt-Water Market, 4 pp.; Monthly Summary-November 1956--Receipts of Fishery Products at the New York City Wholesale Salt-Water Market, 4 pp.; Monthly Summary-December 1956--Receipts of Fishery Products at the New York City Wholesale Salt-Water Market, 4 pp. (Market News Service, U.S. Fish and Wildlife Service, 155 John St., New York 38, N.Y.) Receipts in the salt-water section of the Fulton Fish Market by species and by states and provinces for the months indicated.

Monthly Summary of Fishery Products Production in Selected Areas of Virginia, North Carolina, and Maryland, December 1956, 4 pp. (Market News Service, U.S. Fish and Wildlife Service, 18 So. King St., Hampton, Va.) Fishery 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.

(Chicago) October 1956 Monthly Summary of Chicago's Fresh and Frozen Fishery Products Receipts and Wholesale Market Prices, 10 pp.; November 1956 Monthly Summary of Chicago's Fresh and Frozen Fishery Products Receipts and Wholesale Market Prices, 10 pp. (Market News Service, U.S. Fish and Wildlife Service, 565 W. Washington St., Chicago 6, Ill.) Receipts at Chicago by species and by states and provinces; fresh-water fish, shrimp, and frozen fillet wholesale market prices for the months indicated.

MISCELLANEOUS PUBLICATIONS

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ANTIBIOTICS:

International Conference on the Use of Antibiotics in Agriculture, 1st, 1955, National Research Council Publication 397, 278 pp.,

illus., printed. National Academy of Sciences, National Research Council, Washington, D.C., 1956.

AUSTRALIA:

"A Critical Survey of the Marine Algae of Southern Australia. I. Chlorophyta," by H. B. S. Womersley, article, Australian Journal of Marine and Freshwater Research, vol. 7, no. 3, October 1956, pp. 343-383, printed. Commonwealth Scientific and Industrial Research Organization, 314 Albert St., East Melbourne, C.2, Victoria, Australia. This paper is a survey of all the known marine Chlorophyta of southern Australia, from the southwest corner of Western Australia to about the Victoria-New South Wales border, and including Tasmania. Full references to each species are given, all established synonymy, the type of locality of each species and where the type specimen is deposited, and a summary of the known distribution. Critical notes on many species are given also.

BROWN TROUT:

"Spawning Habits of Brown Trout," newspaper article, The Times, October 26, 1956, 1 p., The Times, London, England. Briefly describes research with brown trout which will lead to accurate predictions of fish spawning sites in streams and elimination of harmful gravels at those sites.

CANNING:

Current Technological Problems in Fish Canning, by Dr. Ernest Hess, 20 pp., printed. (Pre-printed from FAO Fisheries Bulletin, vol. IX, no. 4, October-December 1956.) Food and Agriculture Organization of the United Nations, Rome, Italy. Discusses specific problems characteristic of the fish canning industry. Deals primarily with the quality, handling, and preparation of the raw fish, mollusks, and crustaceans; relationships of container to contents; fish canning operations; and the effect of heat processing and storage on the quality of canned fishery products.

DISEASES OF FISH:

Diseases of Fishes of the Western North Atlantic (IV. Fungus Disease and Resultant Mortalities of Herring in the Gulf of Saint Lawrence in 1955), by Carl J. Sindermann, Research Bulletin No. 25, 23 pp., illus., printed. Department of Sea and Shore Fisheries, Vickery-Hill Bldg., Augusta, Maine.

FISHING EFFORT:

On the Fishing Effort in English Demersal Fisheries, by J. A. Gulland, Ministry of Agriculture, Fisheries and Food Fishery Investigations, Series II, vol. XX, no. 5, 45 pp., illus., printed, 7s. 6d. (US\$1.05). Her Majesty's Stationery Office, York House, Kingsway, London W.C.2, England, 1956. The author states that, "In the study of an exploited fish population a most important factor is the fishing effort expended. Together with a knowledge of the commercial catch, the effort may be used to calculate the catch-per-unit-effort, which provides one of the most useful and widely applied indices of abundance of the exploited stock. A knowledge of the effort is even more important when assessing the relations between

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the activities of the commercial fleet and the mortality observed in the fish stock, and hence in evaluating the possibility of overfishing and the effects of any conservation measures." The opinions of other investigators of fishing effort and fishing power are defined in the introduction of this paper, followed by chapters on calculation of fishing power; the relation of fishing power of trawlers to vessel characteristics; the fishing power of seiners; the fishing power of parejas; the relation of fishing power and performance; comparison with other results; the measurement of fishing time; and the effort and catch per unit of effort off Iceland.

FLORIDA:

Florida, Fresh-Water Fish and Fishing, 1 v., printed. Game and Fresh Water Fish Commission, Tallahassee, Fla.

Quarterly Report on Fisheries Research, September 1956, no. 56-25, 16 pp., processed. The Marine Laboratory, University of Miami, Coral Gables, Fla. Statistics are given on landings of some major species of fish and shellfish for the first six months of 1956 and 1955. Contains a brief summary of the mullet marketing study and recommendations for the minimum size of mesh in shrimp trawls. The use of sodium bisulfite to control shrimp black spot, and fish rancidity and pigmentation studies are described. Also, describes progress in the game-fish and spear-fishing surveys and other projects.

GAME FISH:

Saltwater Game Fish Research Newsletter, #8, edited by Robert W. Ellis, 8 pp., processed. The Marine Laboratory, University of Miami, Coral Gables 34, Fla., Oct. 1956. Features brief progress reports on game-fish research projects being conducted at the Marine Laboratory and topics of general interest to anglers.

GEAR:

The Effect of Electric Fields on Marine Fishes, by B. McK. Bary, Scottish Home Department Series No. 1, 32 pp., illus., printed. H. M. S. O., York House, Kingsway, London W. C. 2, England.

"How to Tan Nets, Sails, and Lines," H. Van Pel, article, SPC Quarterly Bulletin, vol. 6, no. 3, July 1956, p. 33, illus., printed. South Pacific Commission, Noumea, New Caledonia. The life of fishing nets, sails, and lines can be greatly prolonged by tanning. This article explains a simple way of carrying out this process, using a tanning solution made from the bark of the mangrove tree, found on most islands of the South Pacific.

"Purse Seining for Pilchards in Brittany," by C. M. Good, article, World Fishing, vol. 5, no. 11, November 1956, pp. 30-32, illus., printed. John Trundell Ltd., Temple Avenue, London E. C. 4, England. Describes in detail the purse seine used by the French pilchard fishermen. A sketch of the gear illustrates the construction of the net and another drawing illustrates the method of pursuing used on French pilchard fishing vessels. The "chumming" techniques, using a mixture of Norwegian salt cod roe and peanut meal; the method

of setting the gear; and the method of handling the catch are also described.

GENERAL:

(Atlantic States Marine Fisheries Commission) Minutes of the 15th Annual Meeting (September 21-22, 1956, Atlantic City, New Jersey), 205 pp., processed. Atlantic States Marine Fisheries Commission, 22 West First St., Mount Vernon, N. Y. Presents the minutes of the 15th annual meeting of the Commission with details of attendance, the first general session, and section and joint meetings of the North Atlantic-Middle Atlantic Sections and the Chesapeake Bay-South Atlantic Sections.

Anuario de las Industrias Pesqueras del Peru, Año 1951 (Annual Report of Peruvian Fishing Industries for 1951), 80 pp., illus., printed in Spanish. Comité de Pesca de la Sociedad Nacional de Industrias, Lima, Peru.

How the Department of Justice Helps Small Business, Small Marketers Aids No. 17, 4 pp., processed. Small Business Administration, Washington 25, D. C., November 1956.

International Commission for the Northwest Atlantic Fisheries, Annual Proceedings for the Year 1955-56, vol. 6, 74 pp., illus., printed. International Commission for the Northwest Atlantic Fisheries, Halifax, N. S., Canada, 1956. This bulletin presents the administrative report of the Commission for the year ending June 30, 1956, including financial statements; a report of the Sixth Annual Meeting of the Commission, June 11-15, 1956; summaries of research during 1955 broken down by country; and a compilation of research reports by subareas for 1955.

(International Cooperation Administration) Operations Report, Data as of June 30, 1956, FY 1956, Issue No. 4, 90 pp., illus., processed. Office of Statistics and Reports, International Cooperation Administration, Washington, D. C.

Man and the Underwater World, by Pierre de Latil and Jean Rivoire (translated from the French by Edward Fitzgerald), 400 pp., illus., printed. Jarrolds Publishers Ltd., 178-202 Great Portland St., London, England. This generously illustrated book traces the history of man's relationship to the sea from the dawn of civilization to the present. It endeavors to summarize broadly the past efforts to probe the mysteries of the underwater world which led to the eventual development of the diving equipment of today. The first six chapters dwell mostly on mythology, fables, legends, and observations of the sea from ancient times to the Renaissance. The succeeding chapters discuss: diving inventions of the Middle Ages; development of the diving-suit; beginnings of the science of oceanography; history of pearl diving; underwater explorations with spherelike diving chambers; invention of the aqualung; limits, dangers, and many advantages of skin diving; results of trawling in depths over 33,000 feet; depth ships; and speculations about underwater tourism and other such activities in future.

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A New Method for Long Term Preservation of Wood by Chemical Modification, by F.G. Walton Smith, Robert R. Bottoms, Edward Abrams, and Sigmund M. Miller, no. 1025, 6 pp., illus., printed. (Reprinted from Forest Products Journal, vol. VI, no. 9, September 1956, pp. 340-345.) Forest Products Research Society, P.O. Box 2010, University Station, Madison 5, Wisc.

Yachting World Annual 1957, 192 pp. (incl. 82 photos and 155 text illus.), \$10. Philosophical Library, 15 E. 40th St., New York, N. Y., 1956. This book will interest all who have an interest in the sea. It contains articles on sailing and motor-boating. Developments in the small boat class are discussed. One article deals with the science of yacht design, and other articles cover the use of plastics for boats. In addition, the principal events of the year and reviews of yachting are covered. A design section contains plans and photographs of more than 50 yachts of all types designed by leading designers. Some of the chapters of interest to fishing interests are on science and the sailing yacht, plastics, small boats, ocean cruising, and dinghies.

GERMANY:

Jahresbericht über die Deutsche Fischerei 1955 (Annual Report of the German Fisheries 1955), 279 pp., illus., printed in German with summaries in English, DM 20 (US\$4.80). Bundesministerium für Ernährung, Landwirtschaft und Forsten, in cooperation with Mitwirkung des Statistischen Bundesamtes, Neuerwall 72, Hamburg 36, Germany (Publisher: Mann Bros., Berlin, Germany), October 1956. Presents 1955 statistics for fishery landings and imports in considerable detail as well as the number of vessels, new building, personnel employed, etc. In the section devoted to the main fishing ports of Bremerhaven, Cuxhaven, Hamburg-Altona, and Kiel, details are given of the firms operating trawlers, together with the number operated and the type.

GOLD COAST:

"Marine Fish Fauna of the Gold Coast," by Dr. E. A. Salzen, article, Nature, vol. 178, no. 4542, November 17, 1956, pp. 1105-1106, printed. Macmillan & Co., Ltd., St. Martin's St., London W.C.2, England. Part of the work of the West African Fisheries Research Institute is to explore the whole of the West African continental shelf for potential trawling grounds, and to determine the nature and extent of such grounds for possible future exploitation. A recent survey, described in this article, gave results which are of considerable interest because of their similarity with those obtained off French Guinea. A brief description of the results of the survey, which covered the whole of the shelf for 20 miles on either side of the port of Tema, is presented with a list of the species of fish of economic importance in this area.

HALIBUT:

The Incidental Capture of Halibut by Various Types of Fishing Gear, by F. Heward Bell, Report of the International Pacific Halibut Commission, No. 23, 28 pp., illus., printed. International Pacific Halibut Commission, Seattle, Wash., 1956.

Deals with conservation and regulatory problems associated with the incidental catching of halibut by vessels primarily engaged in fishing for other species. Reviews the terms under which vessels using set-line gear have been permitted to retain halibut caught incidentally to other fishing in areas closed to regular halibut fishing. Also records and evaluates the facts that have been gradually accumulated by and available to the Commission in considering the regulation of the capture of halibut caught incidentally by vessels using set-line, troll, and bottom trawl net gear while fishing for other species.

Regulation and Investigation of the Pacific Halibut Fishery in 1955, Report of the International Pacific Halibut Commission No. 24, 15 pp., illus., printed. International Pacific Halibut Commission, Seattle, Wash., 1956. A brief report of activities of the Commission during 1955 which discusses the historical background of the Commission, 1955 regulations, statistics of the fishery, multiple open seasons, catch per unit of fishing effort, composition of catches, subcommercial size halibut, and tagging experiments.

HERRING:

Herring Tagging Techniques and Results, Rapports et Procès-Verbaux des Reunions (Reports and Verbal Proceedings of Meetings), vol. 140, part II, 54 pp., illus., printed in French and English, Kr 15 (US\$2.90). Conseil Permanent International pour l'Exploration de la Mer (International Council for Exploration of the Sea), Charlottenlund Slot, Denmark, December 1955.

JAPAN:

Annual Report of Catch Statistics on Fishery and Aquaculture, 1955, Agriculture, Forestry and Fishery Statistics Bulletin 31-9, 281 pp., illus., printed in Japanese and English. Association of Agriculture-Forestry Statistics, No. 4, 1-chome, Onden, Shibuya-ku, Tokyo, Japan, September 1956. This report contains production statistics of fisheries, aquaculture, and processing of aquatic products for 1955. A general description of the survey methods and explanation of each statistical table is presented. Statistics given are: fish species and prefecture; type of fishery and prefecture; type of fishery and fish species; type of fishery, stratum, and prefecture; and monthly statistics by fish species, type of fishery, and prefecture. Appendices cover pelagic fishery on the high seas; domestic marine fishery; inland water fishery; aquaculture in shallow sea and in inland water; and statistics of processing. Illustrations and names of principal species of fish in Japan are also included.

KENYA:

Review of Kenya Fisheries, 1955, by Hugh Copley, 47 pp., illus., printed. The Government Printer, Nairobi, Kenya, 1956. Reviews the Kenya fisheries for 1955, with special reference to the river fisheries, hatchery work, fish-culture farm, and marine fisheries. The report on the marine fisheries discusses production, marketing, and exploratory and experimental work.

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It also describes the turtle fishery, processing of some shark products, application of synthetic nets and twines to fisheries, and whether or not the use of powered craft would be of economic advantage to the existing inshore fishery.

MANAGEMENT:

Managing Our Fish and Wildlife Resources (Institute), Jan. 19-20, 1956, Minneapolis Center for Continuation Study, 74 pp., illus., printed. University of Minnesota, Minneapolis, Minn., 1956.

MUSSELS:

The Great Spatfall of Mussels (MYTILUS EDULIS L.) in the River Conway Estuary in Spring 1940, by R.E. Savage, Ministry of Agriculture, Fisheries and Food Fishery Investigations, Series II, vol. XX, no. 7, 27 pp., illus., printed, 5 s. (70 U.S. cents). Her Majesty's Stationery Office, York House, Kingsway, London W.C. 2, England, 1956.

A Simplified System of Mussel Purification, by Nial Reynolds, Ministry of Agriculture, Fisheries and Food Fishery Investigations, Series II, vol. XX, no. 8, 22 pp., illus., printed, 5 s. (70 U.S. cents). Her Majesty's Stationery Office, York House, Kingsway, London W.C. 2, England, 1956.

NEW ZEALAND:

Fisheries, 38 pp., printed. (Extract from Parliamentary Paper H.15, 1956.) Marine Department, Wellington, New Zealand, 1956. A report on the fisheries of New Zealand which discusses spiny lobster or crayfish, fishing vessels and personnel, fish landings, methods of capture, landings at ports, ports in review, exports and imports, big-game fishing, fish liver oil, oysters, toheroa, whitebait, mussels, fresh-water fisheries and research, marine research, and legislation. Included also are statistical tables of detailed data on fisheries.

OYSTERS:

The Growth of Oysters Parasitized by the Fungus DERMOCYSTIDIUM MARINUM and by the Trematode BUCEPHALUS CUCULUS, by R. Winston Menzel and Sewell H. Hopkins, 10 pp., illus., printed. (Reprinted from The Journal of Parasitology, vol. 41, no. 4, August 1955, pp. 333-342.) Department of Biology, A. & M. College of Texas, College Station, Tex.

OYSTER PESTS:

"Oyster Pests of Past Ages," by Percy Viosca, Jr., article, Louisiana Conservationist, vol. 8, no. 12, November 1956, pp. 6-9, illus., printed. Louisiana Wild Life and Fisheries Commission, 126 Civil Courts Bldg., New Orleans, La.

PORTUGAL:

Gremio dos Armadores da Pesca de Arrastros, Relatório e Contas do Exercício de 1955 e Orçamento para 1956 (Trawler Owners' Guild, Statement of Operations for 1955 and Budget for 1956), 48 pp., printed in Portuguese. A Comissao Revisora de Contas, Lisbon, Portugal.

PRESERVATION:

Der Fisch vom Fang bis zum Verbrauch (The Fish from Catch to Consumption), by W. Ludorff and

R. Kreuzer, 98 pp., illus., printed in German. Carl Th. Görg Verlag, Bremerhaven, West Germany, 1956.

Smoke Flavor and Ascorbic Acid as Preservatives for Fatty Fish, by Anna Marie Erdman, Betty M. Watts, and Loretta C. Ellias, 4 pp., printed. (Reprinted from Food Technology, vol. VIII, no. 7, 1954, pp. 320-323.) Oceanographic Institute, Florida State University, Tallahassee, Fla. Results of tests of smoke flavors to determine their preservative effect on fatty fish are reported. The fish were lightly salted and kept under refrigeration. The smoke flavors were tested alone and also in combination with ascorbic acid. Observations on the bacteriostatic effect of the smoke flavor on several typical organisms are also reported.

REFRIGERATION AND FREEZING:

Le Poisson Congele. Qualite et Emballage. Facteurs du Developpement du Marche et de la Consommation (Frozen Fish. Quality and Wrapping, Factors of Market and Consumption Development), 171 pp., illus., printed. Agence Europeenne de Productivite de l'O.E.C.E., 2, rue Andre-Pascal, Paris (16^e), France. A report of the working session devoted to the improvement of quality and packaging of frozen fish. This session was held in Kiel, Germany, on March 14-19, 1955, and was sponsored by the European Productivity Agency. The first part of the report is a survey of the frozen fish industry in the various participating countries. In the second part, the full text of the papers read at the meetings and a summary of the discussions are given. The papers discussed were: handling and processing of fish for freezing; technical problems in the freezing of fish; technical problems in the packaging and storage of frozen fish; practical problems in the preservation of the quality of frozen fish during storage; transport and delivery of frozen fish; marketing and economic problems related to the production and delivery of frozen fish; and inspection of the quality of fish and fish products in Denmark, particularly in regard to frozen fish.

EL SALVADOR:

Sea Fishing and Hunting Act, Food and Agricultural Legislation XVI.3/55.1, vol. V, no. 1, 1956, 7 pp., printed, single copy \$1. Columbia University Press, International Documents Service, 2960 Broadway, New York 27, N.Y.

SHRIMP:

Deteriorative Changes in Frozen Shrimp and Their Inhibition, by Marian B. Faulkner and Betty M. Watts, 4 pp., printed. (Reprinted from Food Technology, vol. IX, no. 12, 1955, pp. 632-635.) Department of Food and Nutrition, Florida State University, Tallahassee, Fla. Describes briefly the changes which take place in shrimp during freezer storage and a method of restraining loss of color, odor, and flavor by use of ascorbic acid.

Enzymatic Darkening of Shrimp, by Marian B. Faulkner, Betty M. Watts, and Harold J. Humm, 9 pp., printed. Department of Food and Nutrition, Oceanographic Institute, Florida State

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University, Tallahassee, Fla. Briefly reports evidence of the cause of "black spot" and discusses methods of bleaching and controlling blackening of fresh shrimp.

The Texas Shrimp Fishery, by William C. Guest, Bulletin No. 36, Series No. V, Marine Laboratory, 23 pp., illus., printed. Texas Game and Fish Commission, Austin, Texas, 1956. A summary of the information available on the many phases of shrimp biology and the commercial fishery in Texas. Describes and illustrates the different types of shrimp that occur in the Gulf of Mexico and in Texas bays and gives the distinguishing characteristics of the commercial shrimp. Also describes briefly the life histories of the commercial shrimp; the commercial shrimp fishery; shrimp operations; shrimp trawl, webbing, construction, and measurement; and the bait shrimp fishery.

TARIFFS AND TRADE:

General Agreement on Tariffs and Trade--Third Protocol of Supplementary Concessions, Treaties and Other International Acts Series 3629, 14 pp., processed, 10 cents. Department of State, Washington, D.C., 1956. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D. C.)

General Agreement on Tariffs and Trade--Fourth Protocol of Supplementary Concessions, Treaties and Other International Acts Series 3630, 13 pp., processed, 10 cents. Department of State, Washington, D.C., 1956. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D. C.)

TERRITORIAL WATERS:

(International Law Commission) Report of the International Law Commission on the Work of its Eighth Session, A/C.6/L.378, October 25, 1956, 248 pp., processed. United Nations, International Law Commission, New York, N.Y. A reference guide to the articles concerning the Law of the Sea adopted by the International Law Commission at its eighth session.

TRANSPORTATION:

Food Transportation and What It Costs Us, Miscellaneous Publication No. 738, 23 pp., illus., printed, 15 cents. Marketing Research Division, Agricultural Marketing Service, U.S. Department of Agriculture, Washington, D.C., November 1956. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D. C.) Describes the different methods of food transportation, the proportion of the food dollar that goes to pay for transportation, transportation costs to consumers, the share charged for supplemental services, and recent trends in transportation charges.



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