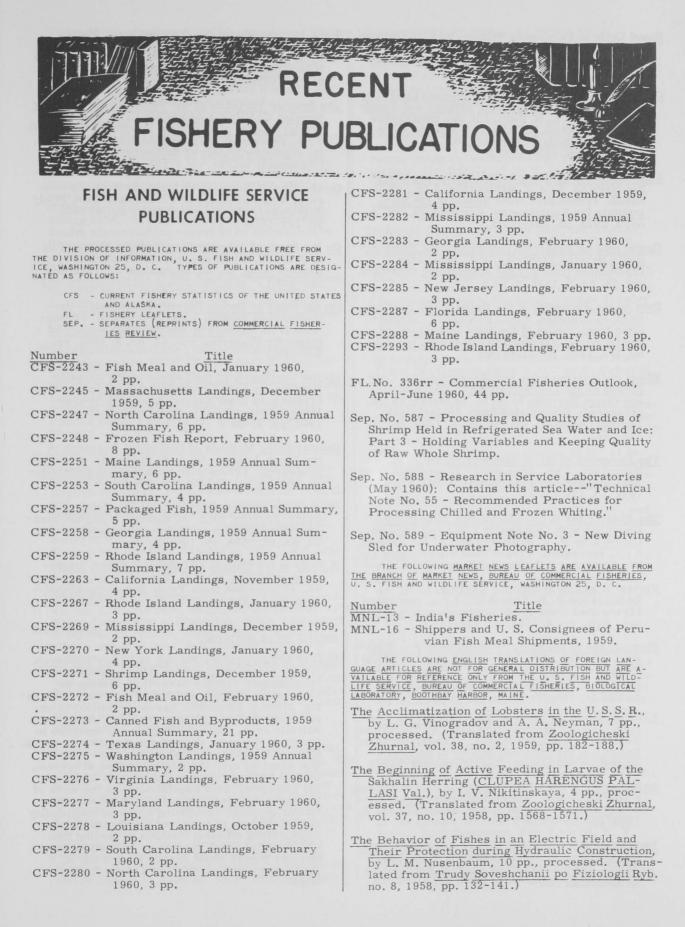
June 1960



- Blood Cells in Developing Salmon, by I. N. Ostroumova, 7 pp., processed. (Translated from Trudy Soveshchanii po Fiziologii Ryb., no. 8, 1958, pp. 380-386.)
- On the Causes of the Similarity Between the Fauna in the Northern Parts of the Atlantic and Pacific Oceans, by L. S. Berg, 108 pp., processed. (Translated from Bulletin de l'Academie des Sciences de Russie (Russian), vol. 21, no. 8, May 1918, pp. 1835-1942.)
- Concerning the Systematic Position of the White Sea Herring, by A. I. Rabinerson, 2 pp., processed. (Translated from <u>Annals of the State</u> <u>Institute for Experimental Agronomics</u>, vol. 1, no. 3, 1923, pp. 106-107.)
- Conference on Problems Concerning the North Atlantic Herring Fisheries, 1 p., processed. (Translated from Rybnoe Khoziaistvo (Russian), vol. 34, no. 9, 1958, p. 94.)
- Data on the Fecundity of the Belomorsky Herring, by O. P. Antipova, 2 pp., processed. (Translated from <u>Annals of the State Institution for</u> <u>Experimental Agronomics (Russian), vol. 6,</u> no. 3-4, 1928, pp. 113-114.)
- Effect of Oceanographic and Meteorological Conditions on the Concentrations of Kandalaksha and Onega Herring, by V. M. Nadezhin, 15 pp., processed. (Translated from Zoologicheski Zhurnal (Russian), vol. 38, no. 2, 1959, pp. 228-242.)
- <u>The Fecundity of White Sea Herring</u>, by E. A. Bezrukova, 5 pp., processed. (Translated from <u>Zoologicheski</u> <u>Zhurnal</u> (Russian), vol. 17, no. 1, 1938, pp. 175-179.)
- <u>The Fishery for Kiljka (Sprat) with Fish Pump,</u> <u>Combined with Underwater Light and Impulse</u> <u>Current, by P. V. Nilonorov and A. Kh. Patejev,</u> <u>6 pp., processed. (Translated from Rybnoe</u> <u>Khoziaistvo, no. 7, June 1959, pp. 53-58.)</u>
- <u>Fishes' Reaction to Electric Current</u>, by N. V. Bodrova and B. B. Krayukhin, 8 pp., processed. (Translated from <u>Trudy Soveshchaniia po Fiziologii</u> Ryb., no. 8, 1958, pp. 124-131.)
- Fluctuations in the Stock of Hokkaido Spring Herring. I--Mean Age Composition, by Tomokichi Yoshihara, 4 pp., processed. (Translated from Bulletin of the Japanese Society of Scientific Fisheries, vol. 19, no. 7, 1953, pp. 828-831.)
- Fluctuations in the Stock of Hokkaido Spring Herring. II--Net Reproduction Rate, by Tomokichi Yoshihara, 4 pp., processed. (Translated from Bulletin of the Japanese Society of Scientific Fisheries, vol. 19, no. 7, 1953, pp. 832-835.)
- Immunological Reaction in Fishes, B. G. Avetikyan, 6 pp. processed. (Translated from <u>Trudy So-</u> <u>veshchaniia po Fiziologii</u> <u>Ryb.</u> (Russian), no. 8, <u>1958</u>, pp. 387-392.)
- Investigating the Blood of Mature Kura Salmon and Their Young, by B. M. Drabkina, 8 pp., processed. (Translated from Trudy Soveshchaniia po Fiziologii Ryb., no. 8, 1958, pp. 372-379.)

- Some Information on the Distribution of Mature and Immature Atlantic-Scandinavian Herring, by S. S. Fedorov, 4 pp., processed. (Translated from Fiskets Gang (Norwegian), no. 43, October 22, 1959, pp. 593-596.)
- The Secular Variation of the Total Length of Spring Herring CLUPEA HARENGUS C. et V. in the Western Coast of Hokkaido, by Hitoshi Kitahama, 6 pp., processed. (Translated from Bulletin of the Japanese Society of Scientific Fisheries (Japanese), vol. 21, no. 8, 1955, pp. 915-920.)
- On the Sprat's Reaction to Light, by A. A. Lovetskaya, 3 pp., processed. (Translated from <u>Trudy</u> <u>Soveshchanii po</u> <u>Fiziologii Ryb.</u>, no. 8, 1958, pp. 121-123.)
- On the Stock of Atlantic-Scandinavian Herring, by J. J. Marti, 4 pp., processed. (Translated from Fiskets Gang, no. 38, September 17, 1959, pp. 522-525.)
- On the Stock of Spring Herring in Hokkaido, by Morisaburo Tauchi, 3 pp., processed. (Translated from Bulletin of the Japanese Society of Scientific Fisheries, vol. 13, no. 5, 1948, pp. 207-209.)
- On the Variability of the Larvae of the Sakhalin Herring, by I. V. Nikitinskaya, 6 pp., processed (Translated from <u>Nauchnye Doklady Vyshey</u> <u>Shkoly, Biologicheskie Nauki</u> (Russian), no. 4, 1958, pp. 31-36.)
- <u>Standardizing Methods of Biological Research in</u> <u>the North Atlantic</u>, by A. S. Polonshiy, 4 pp., processed. (Translated from <u>Rybnoe</u> <u>Khoziaist-</u> <u>vo</u>, vol. 34, no. 9, 1958, pp. 6-9.)
- State of the Stock and Outlook for the Catches of Baltic Herring, by L. A. Rannak, 4 pp., processed. (Translated from Rybnoe Khoziaistvo, vol. 34, no. 10, 1958, pp. 13-16.)
- <u>A Study of the Causes of Diurnal Vertical Migra-</u> <u>tions in Fishes</u>, by S. G. Zusser, 6 pp., processed. (Translated from <u>Trudy Soveshchanii po</u> <u>Fiziologii Ryb.</u>, no. 8, 1958, pp. 115-120.)

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

Branch of Exploratory Fishing and Gear Research, Region <u>3</u> Activities, 17 pp., illus., processed. (Exploratory Fishing Base, U. S. Bureau of Commercial Fisheries, State Fish Pier, Gloucester, Mass.) Describes Bureau activities in exploratory fishing and gear research in the North Atlantic area. These activities are designed to facilitate the harvesting of our marine resources. Current knowledge of fish populations indicate that great as are landings in this area at present, they do not even approach the known limits of the resource. This booklet outlines the work of the Bureau's research vessels in locating new fishing grounds, estimating seasonal availability and migrations of commercial species, introducing more efficient methods of landing fish and shellfish, and developing new equipment. Several photos show scenes aboard the M/VDelaware during exploratory fishing trips.

- California Fishery Products Monthly Summary, February 1960, 12 pp. (Market News Service, U. S. Fish and Wildlife Service, Post Office Bldg., San Pedro, Calif.) California cannery receipts of tuna and tunalike fish; mackerel, and anchovies; pack of canned tuna, mackerel, and anchovies; market fish receipts at San Pedro, Santa Monica, and Eureka areas; California imports; canned fish and frozen shrimp prices; ex-vessel prices for cannery fish; American Tuna Boat Association auction sales; for the month indicated.
- (Chicago) Monthly Summary of Chicago's Fresh and Frozen Fishery Products Receipts and Wholesale Market Prices, February 1960, 12 pp. (Market News Service, U. S. Fish and Wildlife Service, 565 W. Washington St., Chicago 6, Ill.) Receipts at Chicago by species and by states and provinces for fresh- and salt-water fish and shellfish; and wholesale prices for fresh and frozen fishery products; for the month indicated.
- <u>Monthly Summary of</u> Fishery Products Production in Selected Areas of Virginia, North Carolina, and Maryland, March 1960, 4 pp. (Market News Service, U. S. Fish and Wildlife Service, 18 So. King St., Hampton, Va.) Fishery landings and production for the Virginia areas of Hampton Roads, Lower Northern Neck, and Eastern Shore; the Maryland areas of Crisfield, Cambridge, and Ocean City; and the North Carolina areas of Atlantic, Beaufort, and Morehead City; together with cumulative and comparative data; for the month indicated.
- New York City's Wholesale Fishery Trade--Monthly Summary for February 1960, 19 pp. (Market News Service, 155 John St., New York 38, N. Y.) Includes summaries and analyses of receipts and prices on wholesale Fulton Fish Market, imports entered at New York City, primary wholesaler prices for frozen products, and marketing trends; for the month indicated.
- Seattle and Astoria--Landings, Receipts, and Value of Fishery Products, 1959, by Charles M. Reardon, 42 pp., processed. (Available free from the Market News Service, U. S. Fish and Wildlife Service, Pier 42, South, Seattle 4, Wash.) Reviews Pacific Northwest fisheries trends and their effect upon Seattle fishery products receipts for 1959; halibut landings; carload and truckload shipments of fishery products from Seattle by months; imports of canned fishery products at Seattle; and names, classifications, and standards as used on Seattle wholesale market. The Astoria section presents fisheries trends and products receipts for 1959; and landings and receipts of fishery products, 1959. The report also contains a number of statistical tables on fresh and frozen salmon receipts at Seattle, halibut landings, and ex-vessel landings by the otter-trawl fleet.
- (Seattle) Washington, Oregon, and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, March 1960, 7 pp. (Market News Service, U. S. Fish and Wildlife Service, Pier 42 South, Seattle 4, Wash.) Includes landings and local receipts,

with ex-vessel and wholesale prices in some instances, as reported by Seattle and Astoria (Ore.), wholesale dealers; also Northwest Pacific halibut landings; and Washington shrimp landings; for the month indicated.

# 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 PUBLI-CATIONS THAT FOLLOW SHOULD BE ADDRESSED TO THE RESPECTIVE ORGANIZATION OF PUBLISHER MENTIONED. DATA ON PRICES, IF READILY AVAILABLE, ARE SHOWN.

#### AMINO ACIDS:

"Separation of Derivatives of Amino Acids by Using Gas-Liquid Chromatography," by E. Bayer, article, <u>Gas Chromatography</u>, 1958, pp. 333-339, printed. <u>Gas Chromatography</u>, Academic Press, Inc., 111 5th Ave., New York 3, N. Y.

## ANTIBIOTICS:

- "Determination of Antibiotic Residue in Fish," by Antonio Montefredine, Concetta Testa, and Imperia Morelli, article, <u>Bollettino dei Laboratori Chiamici Provinciali Bologna</u>, vol. 9, 1958, pp. 254-262, printed in Italian. Associazione Nazionale die Chiamici de C. N. A. Laboratori, Provinciali di Igiene e Profiassi, Via B. Triachini 17, Bologna, Italy.
- "Determination of Tetracycline in Fish Preserved with Antibiotic," by Antonio Montefredine, Imperia Morelli, and Concetta Testa, article, <u>Bollettino dei Laboratori Chiamici Provinciali Bologna</u>, vol. 9, 1958, pp. 263-267, printed in Italian. Associazione Nazionale die Chiamici de C. N. A. Laboratori, Provinciali di Igiene e Profiassi, Via B. Triachini 17, Bologna, Italy.
- The Use of Chlortetracycline in the Control of Spoilage in Ice-Stored Shrimp, by Mary H. Vance, William Saenz, and David L. Dubrow, Technical Series no. 28, 25 pp., illus., printed. State Board of Conservation, Tallahassee, Fla., June 1959. A report on experiments to determine the effect of CTC applied as a dip or incorporated into the storage ice in controlling shrimp spoilage and to develop suitable methods for the application of CTC under commercial fishing conditions. The pink shrimp (Penaeus duorarum) used in these experiments were obtained from a commercial shrimp vessel operating in the Tortugas area out of Key West, Fla. Results of the experiments indicate that shrimp treated with chlortetracycline will remain of acceptable quality for 4 to 7 days longer than nontreated shrimp.

## ARGENTINA:

La Industria Pesquero-Conservera Argentina" (The Argentine Fish-Canning Industry), article, Industria Conservera, vol. 25, no. 246, December 1959, pp. 328-330, printed in Spanish. Industria Conservera, Calle Marques de Valladares, 41, Vigo, Spain.

#### BAIT:

Artificial Bait for Blue Crabs, by William Saenz, David L. Dubrow, and William J. Cerniglia, Special Service Bulletin No. 16, 7 pp., printed. Florida State Board of Conservation, W. V. Knott Bldg., Tallahassee, Fla., July 1959. This booklet tells of two years of experimentation on the development of an artificial crab bait. None of the chemicals tested proved effective. A more successful approach was the use of natural products, such as brewers' yeast, fish preserved in formalin, and dry-salted fish. Traps baited with dry-salted fish caught between 80 and 90 percent as many crabs as those baited with fresh or frozen fish. In the course of the investigation it was found that a convenient way of baiting the traps is by placing the bait in an empty can in which holes have been punched on the sides and bottom. The bait in the can attracts crabs but is not consumed by the first individuals entering the trap. This device allows the use of smaller quantities of bait and preparation of the cans beforehand, so that less work is required on the boat.

## BRITISH GUIANA:

The Trawl Survey Carried Out by the R/VCAPE ST. MARY Off British Guiana, 1957-59, Part I--Summary of the Survey, by W. G. Mitchell; Part II--The Interpretation of the Catch Records, by R. H. McConnell, Bulletin No. 2, 51 pp., illus., printed, BG\$1 (about 58 U. S. cents). The Fisheries Division, Department of Agriculture, Georgetown, British Guiana. Results of the survey outlined in this report indicate that trawling grounds extend out 30-40 miles from the coast of British Guiana, including an area of about 5,000 square miles. For best results, trawlers must have sufficient power to tow the trawl against wind and tide. Analysis of the catch showed that 200 species of fish were taken during the two-year survey. Of these, the principal species landed were the croaker, sea trout, and bangamary. The grounds have an average potential production of over 300 pounds of marketable fish per fishing hour throughout the year.

## CANADA:

British Columbia Catch Statistics, 1959 (By Area and Type of Gear), 158 pp., illus., processed. Department of Fisheries, 1110 W. Georgia St., Vancouver 5, B. C., Canada, February 5, 1960. The ninth annual report of fish-catch statistics for British Columbia based on Departmental copies of sales slips that are completed by all commercial fish buyers operating within the Province. The following information is contained in this report: summary of landings by district and total landed value of all fish; highlights of catch statistics -- a general review of fishing in each area; and detailed district and area monthly statistics by type of gear. Certain economic, weather, and conservation factors that have a bearing on the catch are also reviewed.

## CARP:

'Elevage de la Carpe à Madagascar'' (Carp Breeding in Madagascar), by A. Kiener, article, Bulletin de Madagascar, vol. 10, no. 165, February 1960, pp. 125-147, illus., printed in French. Bulletin de Madagascar, M. le Directeur de l'Imprimerie Officielle, Tananarive, Madagascar (Malgache Republic).

#### CEYLON:

"Ceylon Modernizes Her Fisheries," by I. V. MacDonald, article, <u>Foreign Trade</u>, vol. 113, no. 7, March 26, 1960, pp. 20-21, illus., printed. Queen's Printer, Government Printing Bureau, Ottawa, Canada.

#### CHEMICAL COMPOSITION:

- "Sodium and Potassium in Salt-Water Fish," by Lennie M. Oglesby and Agnes C. Bannister, article, Journal of the American Dietetic Association, vol. 35, November 1959, pp. 1163-1164, printed. Journal of the American Dietetic Association, American Dietetic Association, 620 North Michigan Ave., Chicago 11, Ill.
- "Variations in the Sodium and Potassium Content of the Muscle Tissue of Pacific Salmon with Particular Reference to Migration," by R. A. MacLeod, R. E. Jonas, and J. R. McBride, article, <u>Canadian Journal of Biochemistry and Physiology</u>, vol. 36, no. 12, December 1958, pp. 1257-1258, printed. Canadian Journal of Biochemistry and Physiology, National Research Council, Ottawa, Canada.

## COLD STORAGE:

Studies on a Jacketed Cold-Storage Room," by J. W. Slavin, J. A. Peters, and S. R. Pottinger, article, Food <u>Technology</u>, vol. 12, no. 11, November 1958, pp. 602-611, printed. Food Technology, The Garrard Press, 510 North Hickory, Champaign, Ill.

#### CONTAINERS:

Cleaning Aluminum Fish Containers," by R. J. Nachenius, article, <u>Annual Report</u>, <u>Fishing Industry Research Institute</u>, no. 11, 1958, p. 13, printed. Fishing Industry Research Institute, University of Cape Town, Rondebosch, Union of South Africa.

#### DEHYDRATION:

Vers des Applications Industrielles de la Cryo-Dessication a la Deshydration des Produits Alimentaires' (Commercial Applications of the Freeze-Drying Process for Dehydration of Food Products), article, <u>La Revue de la Conserve</u>, no. 7, September 1957, pp. 67-68, printed in French. La Revue de la Conserve, 1 rue de la Reale, Paris 1, France.

#### DIETARY LEVELS:

Dietary Levels of Households in the West, Household Food Consumption Survey 1955 Report No. 10, 68 pp., illus., processed, 45 cents. U. S. Department of Agriculture, Washington, D. C., July 1957. (For sale by the Superintendent of Documents, U.-S. Government Printing Office, Washington 25, D. C.) The nationwide survey of household food consumption on which this report is based was made in April-June 1955 by the U. S. Department of Agriculture. Some data on dietary levels of fish and other high-protein foods are included. Fish is not shown separate-

ly but appears in the combined category of "meat, poultry, fish."

#### DRYING:

<sup>1</sup>Continuous High Vacuum Drying Techniques," by F. Fixari, W. Conley, and G. Bard, article, <u>Food Technology</u>, vol. 13, March 1959, pp. 217-220, printed. Food Technology, The Garrard Press, 510 North Hickory, Champaign, Ill.

"Drying Fish and Beef Prior to Solvent Extraction," by L. K. Arnold, and Pong R. Hsia, article, Journal of Agricultural and Food Chemistry, vol. 6, no. 3, March 1958, pp. 231-232, printed. Journal of Agricultural and Food Chemistry, American Chemical Society, 1155 16th St., N. W., Washington 6, D. C.

## ELECTRICAL FISHING:

"Die Verwendung von Leitungsstrom zur Elektrofischerei" (The Use of Direct Current for Electrofishing), by H. W. Hattop, article, <u>Deutsche Fischerei Zeitung</u>, vol. 5, no. 9, September 1958, pp. 265-268, illus., printed in German. Deutsche Fischerei Zeitung, Neumann Verlag, Radebeul, Dresden, E. Germany.

"Wo Steht Gegenwartig die Elektrofischerei?" (What is the Present State of Electrical Fishing?), by P. F. Meyer-Waarden, article, <u>Protokolle zur Fischereitechnik</u>, vol. 5, no. 22/23, October 1958, pp. 244-250, printed in German. Institut fur Netzforschung, Hamburg, W. Germany.

## EUROPEAN COMMON MARKET:

<sup>'</sup>L'Industrie de la Pêche Belge et l'Application du Marche Commun<sup>''</sup> (The Belgian Fishing Industry and the Effect of the Common Market), article, La Pêche Maritime, vol. 38, no. 981, December 1959, pp. 763-775, illus., printed in French. La Peche Maritime, 190, Boulevard Haussmann, Paris (8<sup>e</sup>), France.

"Les Pays du Marche Commun" (The Common Market Countries), article, La Peche Maritime, vol. 39, no. 984, March 1960, pp. 147-149, printed in French. La Peche Maritime, 190 Boulevard Haussmann, Paris, France. Includes sections on fishery developments in West Germany, Netherlands, Belgium, and Italy.

## FISH-LIVER OILS:

Refined Shark-Liver Oil and Vitamin A Concentrates, by S. Mahdihassan and others, British Patent No. 810,643, March 18, 1959. Her Majesty's Patent Office, London, England.

## FISH MEAL:

"Vergleichende Untersuchung Einiger Methoden zur Feststellung des Fett-Gehaltes in Fischmehl" (Comparative Investigation about Methods for the Determination of Fat in Fish Meal), by A. F. M. G. Luijpen, D. Hooghiemstra-Brasser, and A. C. Hindriks, article, <u>Fette</u>, <u>Seifen</u>, <u>Anstrichmittel</u>, vol. 60, no. 10, October 1958, pp. 10-12, printed in German. Industrieverlag von Hernhaussen K. G., Hamburg 11, W. Germany. FISH SAUSAGE:

"Les Saucisses de Thon," (Tuna Sausages), article, <u>La Pêche Maritime</u>, vol. 37, no. 965, August 1958, <u>1</u> p., illus., printed in French. La Pêche Maritime, 190 Boulevard Haussmann, Paris 8, France.

## FISH SCRAP:

Recovery of Blood and Fish Body Solids from Blood Water by a System of Heat Coagulation," by J. M. Fourie, article, <u>Progress Report No.</u> <u>42</u>, 4 pp., printed. Fishing Industry Research Institute, University of Cape Town, Rondebosch, Union of South Africa.

#### FISH SOLUBLES:

"New Fish Solubles Plant Added to Cannery Operation," article, <u>Feedstuffs</u>, vol. 31, October 17, 1959, p. 46, printed. Feedstuffs, Miller Publishing Co., 118 S. 6th St., Minneapolis 2, Minn.

## FLOUNDER:

Young Plaice Hauls off the English East Coast, by R. S. Wimpenny, 22 pp., illus., printed, 6s. 6d. (about 91 U. S. cents). Her Majesty's Stationery Office, York House, Kingsway, London WC 2, England, 1960. (Reprinted from Fishery <u>Investigations</u>, series 2, vol. 23, no. 1.) Presents results of exploratory trawling for plaice (flounder) on grounds off the South Sands of Bridlington Bay between 1949 and 1958.

#### FLYINGFISH:

"Note on a Technique for Catching Flying Fish at Night," by John B. Lewis, article, <u>West Indies</u> <u>Fisheries Bulletin</u>, no. 6, November/December 1959, pp. 9-10, processed. Ministry of Natural Resources and Agriculture, Federal House, Port-of-Spain, Trinidad.

## FOOD ADDITIVES:

Principles and Procedures for Evaluating the Safety of Food Additives, Publication 750, 12 pp., printed. National Academy of Sciences--National Research Council, 2101 Constitution Ave., Washington 25, D. C. A booklet on evaluating the safety of food additives which includes definitions of the terms food additives, toxicity, safety, and hazard; statement of principles as a guide to policy decisions in using additives; outlines of the kinds of investigation helpful in evaluating their safety; and principles for adapting an investigation to a particular additive and its expected use. The appendix discusses the functions of insignificant levels of chemical food additives.

"Some Pressing Problems Under the Food Additives Amendment of 1958," by Bernard L. Oser, article, <u>Food Technology</u>, vol. 13, November 1959, pp. 607-608, 609, printed. Food Technology, The Garrard Press, 510 North Hickory, Champaign, Ill.

What Consumers Should Know About Food Additives, Leaflet No. 10, 12 pp., illus., printed, 15 cents. U. S. Department of Health, Education, and Welfare, Food and Drug Administration,

Washington, D. C. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.) Included are sections on the history of the use of chemical preservatives; the contributions of food chemistry to better living; public health safeguards; and the latest legislation to regulate the use of food additives. Details are presented on the various types of additives such as vitamins, nonnutritive sweeteners, emulsifiers, and others; special classes of additives such as pesticides and coal-tar color; and requirements of label declaration when additives are used.

FOOD AND AGRICULTURE ORGANIZATION: Technical Meeting on Fishery Cooperatives (Pro-ceedings and Basic Working Papers), 228 pp., processed, limited distribution. Fisheries Division, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, December 1959. This, the first international meeting in its field, was held in Naples on May 12-21, 1959, and was co-sponsored by FAO and the International Labour Office. The report includes discussions and papers presented under the five agenda items and reprints of the four basic working papers commissioned for the meeting. The agenda items covered are: the Place of Cooperatives in the Economy of Fisheries; fishery Cooperatives and Government; Cooperative Education and Training in Fisheries; Organization and Management in Fishery Cooperatives; and general conclusions regarding fishery cooperatives and the future. The basic working papers deal with Fishery Cooperatives in Europe and North America; Education and Training for Fishermen's Cooperatives; and Business Organization and Management of Fishery Cooperatives.

## FOOD CONSUMPTION:

Food Consumption and Dietary Levels of Households as Related to the Age of the Homemaker, United States--by Region, Household Food Consumption Survey 1955, Report No. 14, 134 pp., illus., processed, 75 cents. U. S. Department of Agriculture, Washington, D. C., 1959. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.) This report, the latest in a series based on the 1955 Department of Agriculture's food consumption survey, shows that peak expenditures for food are made by families in which the housewife is between 30 and 50 years old. This is true for fish and shellfish as well as for other food products. Data on "fish and shellfish" as a separate category are included in the tables.

## FOOD PRODUCTION:

Food Production for Home Use by Households in the United States-by Region, Household Food Consumption Survey 1955, Report No. 12, 88 pp., illus., processed, 75 cents. U. S. Department of Agriculture, Washington, D. C., 1958. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.) This report, the twelfth in a series based on data gathered during a 1955 survey on household consumption, was prepared jointly by the Agricultural Research Service and the Agricultural Marketing Service. Six thousand homemakers in the United States were interviewed. Information given on quantities and money value of foods used during the week preceding the interview was used in preparing the present report. Category of meat and poultry includes fish and game, but the latter two are not shown separately in any of the tables.

#### FOREIGN TRADE:

21st Annual Report of the Foreign-Trade Zones Board (to the Congress of the United States), 16 pp., printed, 15 cents, Foreign-Trade Zones Board, U. S. Department of Commerce Bldg., Washington 25, D. C., October 1959. (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.) Annual report of the Foreign-Trade Zones Board for the fiscal year ended June 30, 1959, together with the reports covering operations during the same period of Foreign-Trade Zones located at New York, New Orleans, San Francisco, and Seattle.

## FREEZING AND CANNING:

<u>Home Freezing and Canning by Households in</u> <u>the United States-by Region</u>, Household Food Consumption Survey 1955, Report No. 11, 72 pp., illus., processed, 45 cents. U. S. Department of Agriculture, Washington, D. C., 1957 (For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.) The eleventh in the series of reports based on data gathered during the 1955 Household Food Consumption Survey conducted by the Department of Agriculture during the spring of 1955. Some data on preservation of fishery products in the home are included. Fish is not shown separately but appears in the combination category of "meat, poultry, fish or game."

#### FREEZING EQUIPMENT:

"Freezing Plant Aboard Factory Ships and Trawlers," by M. B. F. Ranken, article, <u>Modern Refrigeration</u>, vol. 61, no. 12, December 1958, p. 1234, printed. Modern Refrigeration, Maclaren House, 131 Great Suffolk St., London SE1, England.

## FROZEN FOODS:

"The AFDOUS Code--A Review of Recommended Sections," article, Frosted Food Field, Vol. 29, October 1959, pp. 84-85, printed. Frosted Food Field, 321 Broadway, New York 7, N. Y.

## GENERAL:

<u>Color-Coding in Small Plants</u>, by Joseph deFeher, Technical Aids for Small Manufacturers No. 69, November-December 1959, 4 pp., illus., printed. Small Business Administration, Washington 25, D. C. Several ways that color-coding can raise general industrial efficiency and bring about orderliness are highlighted in this leaflet. Recent improvements made possible by standardization of the colorcoding system are reviewed. The uses of

colors for purposes such as safety measures, and marking of critical areas on machines, piping systems, resistors, temporary hazards, and dangerous substances are described.

#### GHANA:

Report of the Fisheries Division, Ministry of Food and Agriculture, 1958, 21 pp. and 5 charts, illus., printed, 3s. 6d. (about 49 U. S. cents). Government Printing Department, Accra, Ghana, 1960. Covers developments in sea fisheries, fishing harbors for power craft, fishing operations, freshwater fisheries, and the fisheries school, during 1958. In May of that year, the one hundredth motor fishing vessel to be registered in Ghana was launched.

## HERRING:

The Herring of the Clyde Estuary, by Henry Wood, Scottish Home Department Marine Research No. 1, 1960, 24 pp., illus., printed, 8s. 6d. (about US\$1.19). Her Majesty's Stationery Office, 13A Castle St., Edinburgh 2, Scotland.

"Smasildundersokelser i Nord-Norge med F/F Asterias hosten 1959" (Exploratory Fishing for Small Herring in Northern Norway with the Vessel Asterias during 1959), by Per Hognestad, article, Fiskets Gang, vol. 46, no. 4, January 28, 1960, pp. 53-59, illus., printed in Norwegian. Fiskets Gang, Postgiro nr. 691 81, Bergen, Norway.

ISRAEL:

Fishermen's Bulletin, vol. 3, no. 2 (22), December 1959, 36 pp., illus., printed in Hebrew with English abstracts. Fishermen's Bulletin, P. O. B. 609, Haifa, Israel. Includes, among others, these articles: "Refrigeration Processes in Fishing Vessels," by M. Bleiser; "Transport and Marketing of Red Sea Fish," by I. Ziskin; "Israeli Shrimp and Ink-Fish Exports in 1959;" and "Sardine Fishery in 1959," by Y. Ariav.

#### JAPAN:

Journal of the Tokyo University of Fisheries, vol. 45, no. 1, March 1959, 94 pp., illus., printed. The Tokyo University of Fisheries, Shiba Kaigandori 6, Minato-ku, Tokyo, Japan. Includes, among others, articles on: "A Biological Study on a Japanese Edible Mantis-Shrimp, Squilla oratoria De Haan," by I. Kubo and others; "Zoogeographical Studies on the Demersal Fishes of the Tokyo Bay," by K. Takagi; and "Studies on the Fat Metabolism of Fish. 2--Histological and Chemical Studies on Fat and Phosphorous in Rainbow Trout," by T. Ono and others.

Journal of the Tokyo University of Fisheries, vol. 45, no. 2, March 1959, 137 pp., illus., printed. The Tokyo University of Fisheries, Shiba Kaigandori 6, Minato-ku, Tokyo, Japan. Includes articles on: "Polarographic Studies of Protein Contained in Aquatic Animal," by T. Kikuchi, T. Hirano, and I. Okada; "Studies on the Fat Metabolism of Fish. III--Relations Between Fat and Phosphorous in Rainbow Trout," by T. Ono and F. Nagayama; "Enzymatic Studies on the Glycolysis of Fish Muscle. II--Colorimetric Method for Determination of Sugars in Muscle," by F. Nagayama and others; "Study on the Fish-Gathering Effects of Air Curtain," by Y. Imamura and M. Ogura; "Study on the Disposition of Fish Towards Light. III--The Strength of Illumination Comfortable to Cololabis saira," by Y. Imamura and A. Koike; "Study on the Disposition of Fish Towards Light. IV--The Strength of Illumination Comfortable to Mackerel and <u>Trachurus japonicus</u>," by Y. Imamura; "Study on the Response of <u>Trachurus japonicus</u> to Air-Bubbles," by Y. Imamura and M. Ogura; and "Determination of Time Required for Freezing of Skipjack," by K. Tanaka and J. Nishimoto.

Technical Report of Fishing Boat, No. 13, 123 pp., illus., printed in Japanese with English abstracts. Fishing Boat Laboratory, Fisheries Agency, Ministry of Agriculture and Forestry, Kasumigaseki, Chiyodaku, Tokyo, Japan, October 1959. Contains, among others, these papers: "Resistance Test of European Wooden Trawler (No. 2)," by N. Yokoyama and T. Kobayashi; "Self-Propulsion Test with European Wooden Small Trawler Models," by N. Yokoyama and E. Imanari; "Results of Measure Experiments by Several Meters on Net Shape of One-Boat Trawl Net (Danish Seine Net)," by C. Hamuro; "Study on Ultrasonic Waves Reflection Loss at Fish-Body Examination on Dimension of Fish-Body and Wave-Length," by Y. Maniwa; "Com-parison between the Echo-Trace of Sea-Bottom by the 14 kc. Echo-Sounder and that by the Echo-Sounder of Ultra High Frequency Sound-Wave Which Has the Same Mechanism as the 14 kc. Echo-Sounder," by T. Hashimoto, Y. Maniwa, and M. Nishimura; "Detection of Fish by Sono-buoy," by T. Hashimoto, M. Nishimura, and Y. Maniwa; and "Technical Examination and Tentative Making of Fish-Finder for Tuna and Experiment on It on Sea," by T. Hashimoto and Y. Maniwa.

#### JELLYFISH:

"The Portuguese Man-of-War," by Charles E. Lane, article, <u>Scientific American</u>, vol. 202, no. 3, March 1960, pp. 158-168, illus., printed. Scientific American, Inc., 415 Madison Ave., New York 17, N. Y.

# LAW OF THE SEA:

"La Deuxieme Conference de Geneve Etablira-telle une Regle Universelle d'Etendue de la Mer Territoriale et de la Zone Contigue?" (Will the Second Conference at Geneva Establish a World-Wide Law to Extend the Territorial Sea and Contiguous Zone?), article, La Peche Maritime, vol. 39, no. 984, March 1960, pp., 129-132, printed in French. La Peche Maritime, 190 Boulevard Haussmann, Paris, France.

Second United Nations Conference on the Law of the Sea (Synoptical Table Concerning the Breadth and Juridical Status of the Territorial Sea and Adjacent Zones), A/CONF. 19/4, February 8, 1960, 14 pp., printed. United Nations International Documents Service, Columbia University Press, 2960 Broadway, New York 27, N. Y.

#### MACKEREL:

"Line Fishery for Mackerel," by C. Nedelec, article, <u>Science</u> et Peche, no. 63, October 1958,

4 pp., printed in French. Science et Peche, L'Institut Scientifique et Technique des Peches Maritimes, 59 Avenue Raymond-Poincare, Paris 16<sup>e</sup>, France.

## MUSSELS:

"Nebennutzungen in der Binnenfischerei: Muschelwerbung" (Secondary Exploitation in the Fresh-Water Fishery: Mussel Fishing), by B. Rogge, article, <u>Deutsche Fischerei Zeitung</u>, vol. 5, no. 9, September 1958, pp. 279-281, illus., printed in German. Deutsche Fischerei Zeitung, Neumann Verlag, Radebeul/Dresden, E. Germany.

## NETS:

<sup>1</sup>Bisherige Erfahrungen mit Netzen aus Chemisch Veranderter Baumwolle" (Experience to Date With Nets Made of Chemically-Treated Cotton), by A. von Brandt, article, <u>Wissenschaftliche In-</u> formationen fur die Fischereipraxis, vol. 5, no. 4, July/August 1958, pp. 118-122, printed in German. Bundesforschungsanstalt fur Fischerei, Hamburg 36, W. Germany.

- "The Effect of Dyeing on the Efficiency of Gill Nets and Long Lines Made of Perlon Monofilament," by G. Kajewski, article, Fischereiforschung, vol. 1, no. 1, August 1958, p. 19, printed in German. Fischereiforschung, Institut fur Hochseefischerei und Fischverarbeitung, Rostock-Marienehe, E. Germany.
- "Tabellen zur Gewichtsberechnung von Baumwollnetzen unter Berucksschtigung eines Einstellungsverhaltnisses" (Tables for Calculating the Weight of Cotton Nets Under Consideration of a Certain Hanging Coefficient), by K. Schmidt and K. Auwand, vol. 5, no. 4, April 1958, pp. 100-104, printed in German. Deutsche Fischerei Zeitung, Nuemann Verlag, Radebeul/Dresden, E. Germany.

#### NORTHERN RHODESIA AND NYASALAND:

(Joint Fisheries Research Organisation) Annual Report No. 8, 1958, 61 pp. and 2 maps, illus., printed, 5s. (about 70 U. S. cents). Joint Fisheries Research Organisation, Salisbury, Rhodesia, 1959. This is the eighth report by the Joint Fisheries Research Organisation of Northern Rhodesia and Nyasaland but the first appearing as a separate publication. The seven previous reports were incorporated into the annual reports of the Game and Tsetse Control Departments in each territory. The present summary covers activities of the Organisation in Northern Rhodesia, such as development of Lake Bangweulu and its swamp fishery, progress of the Zambezi Valley surveys, and operation of the Fiyongole Fish Farm. Also describes activities of the Organisation in Nyasaland during 1958, such as investigations of distribution of fish larvae, hydrology and plankton, and the fishes of Lake Nyasa. Includes four papers on fisheries of the region and a list of publications by members of the Organisation.

## NORWAY:

Fylker og Landsdeler i Norge, Statistisk Belyst, (Statistical Report on Counties and Land Area in Norway), by Hans Luihn, 69 pp., illus., printed in Norwegian. Arbeidsdirektoratet, Oslo, Norway, December 1958. A report covering statistical data on industry, agriculture, commerce, health, climatic conditions, and other aspects of life in the Norwegian counties. Includes a chapter on fishing, with details of volume and value of catch by species for coastal and distant-water fisheries.

#### OREGON:

Research Briefs, vol. 7, no. 1, July 1959, 82 pp., illus., printed. Fish Commission of Oregon, 307 State Office Bldg., Portland 1, Oreg. Contains, among others, articles on: "Time of Spawning, Length of Maturity, and Fecundity of the English, Petrale, and Dover Soles (Parophrys vetulus, Eopsetta jordani, and Microstomus pacificus, respectively), "by George Y. Harry, Jr.; and "The 1955-1956 Silver Salmon Run Into The Tenmile Lakes System," by Alfred R. Morgan and Kenneth A. Henry.

#### POISONOUS FISH:

Poisonous Fishes in the Caribbean Area," by A. C. Ellington, article, West Indies Fisheries Bulletin, no. 6, November/December 1959, pp. 1-5, processed. Ministry of Natural Resources and Agriculture, Federal House, Port-of-Spain, Trinidad.

#### PRESERVATION:

"Nouvelles Methodes de Conservation du Poisson" (New Methods of Fish Preservation), article, La <u>Peche Maritime</u>, vol. 37, no. 961, April 1958, T <u>p., printed in French.</u> La Peche Maritime, 190 Boulevard Haussmann, Paris 8, France.

#### PROTEINS:

Dehydrated Edible Fish Proteins, by Raimund Vogel and Klement Mohler, U. S. Patent No. 2,875,061, Feb. 24, 1959. U. S. Patent Office, Washington 25, D. C.

### REFRIGERATED VESSELS:

The Chilling and Storage of Fish on Refrigerated Trawlers," by G. Konokotin, article, Kholodil'naia Tekhnika, no. 6, 1959, pp. 24-28, illus., printed in Russian with brief English summary. Kholodil'naia Tekhnika, c/o Four Continent Book Corp., 822 Broadway, New York 3, N. Y.

### SALMON:

"The Earliest of Salmon," by William B. Currie, article, <u>Scotland</u>, vol. 4, no. 3, March 1960, pp. 45-47, illus., printed. 1 Castle St., Edinburgh 2, Scotland. A short description, for anglers, of the spawning habits of and best spots for catching the early-running Atlantic salmon in Scotland's rivers and lakes.

"Zur Technologie des Lachsfanges" (Technology of Salmon Fishing), by J. Zaucha and G. Kajewski, article, <u>Fischereiforschung</u>, vol. 1, no. 2, September 1958, pp. 1-7, illus., printed in German. Fischereiforschung Institut fur Hochseefischerei und Fischverarbeitung, Rostock-Marienehe, E. Germany.

## SANITATION:

"Up-To-Date Sanitation Processes," by W. J. Dixon, article, Canner and Freezer, no. 126,

June 1958, pp. 18-20, printed. Canner and Freezer, 105 W. Adams St., Chicago 3, Ill., U. S. A.

## SARDINES:

'Sardine Canners' Program Hits Top-Quality Bull's-Eye," by Arthur V. Gemmill, article, Food Engineering, vol. 32, no. 3, March 1960, pp. 78-81, illus., printed. Food Engineering, McGraw-Hill Publishing Co., Inc., 330 W. 42nd St., New York 36, N. Y. Describes how Maine sardine processors are going "all out" to finance quality control and inspection services. They have adopted mandatory grading that almost completely eliminates any sub-standard products. A good deal of money is being spent on research and promotion. "Sardines from Maine" are becoming a familiar item on food store shelves throughout the country.

## SEALS:

An Attempt Towards a Revision of the Systematics and Diagnostic Features of Seals Belonging to the Subfamily PHOCINAE, by K. K. Chapskii, translation no. NRCC C-2330, 10 pp., processed. (Translated from Trudy Zoologicheskogo Instituta, Akademiya Nauk SSSR, vol. 17, 1955, pp. 160-169.) SLA Translation Center, The John Crerar Library, 86 E. Randolph St., Chicago 1, Ill.

## SHRIMP:

The Tortugas Shrimp Fishery: The Fishing Fleet and its Method of Operation, by E. S. Iversen and C. P. Idyll, Technical Series No. 29, 37 pp., illus., printed. State Board of Conservation, Tallahassee, Fla., June 1959. This report gives the background for the establishment of a measure of the relative quantities of pink shrimp (Penaeus duorarum) on the Tortugas grounds, within seasons and between seasons. It describes the fleet engaged in the Tortugas pink shrimp fishery and includes data on the size and age of vessels in the fleet, vessel activity (i.e., fishing and selling practices), landings by day of the week, and length of fishing trips. Also described are mesh size of trawl nets, changes in the gear used, average size of shrimp landed, amount of small shrimp discarded, variation in the hours of darkness; occurrence of jellyfish and algae on the grounds, strength and direction of the wind, phases of the moon, and the regulation of fishing. These are described and considered in relation to their effect on estimates of catch per unit of effort.

## SPINY LOBSTER:

"Le Conditionnement sous Vide des Queues de Langoustes a Bord du Langoustier-Congelateur Francoise-Christine" (The Processing Plant for Spiny Lobster Tails on Board the Freezer Vessel Francoise-Christine), article, La Peche Maritime, vol. 39, no. 984, March 1960, pp. 156-157, illus., printed in French, La Peche Maritime, 190 Boulevard Haussmann, Paris, France.

#### STANDARDS:

"Use of Grade Standards in the Quality Control of Fishery Products," by Mary E. Ambrose and Maurice Bender, article, <u>Food Technology</u>, vol. 13, May 1959, pp. 249-251, printed. Food Technology, The Garrard Press, 510 North Hickory, Champaign, Ill.

#### TRAWLERS:

"The Building of Large Fishing Trawlers," by E. M. Gorbenko, translation, <u>LLU Translation</u> <u>Bulletin</u>, vol. 2, no. 1, January 1960, pp. 25-41, illus., printed. (Translated from <u>Sudostroenie</u>, no. 5, 1959, pp. 33-37.) Lending <u>Library Unit</u>, Department of Scientific and Industrial Research, London, England.

#### TUNA:

"L'Organisation de la Campagne Thoniere 1959-60 a Dakar" (Planning the 1959-60 Tuna Fishing Season at Dakar), by Jehan Ichtus, article, La <u>Peche Maritime</u>, vol. 39, no. 984, March 1960, pp. 133-138, illus., printed in French. La Peche Maritime, 190 Boulevard Haussmann, Paris, France.

### UNITED KINGDOM:

- Fishing, Choice of Careers, no. 90, 40 pp., illus., printed, 1s. 9d. (about 25 U. S. cents). Her Majesty's Stationery Office, York House, Kingsway, London WC2, England, May 1959. An informative booklet for young man trying to make a choice of careers. The hazards and loneliness as well as the rewards of a seafaring life are pointed out. Sections of the booklet are devoted to the apprenticeship, drifters and drifter-trawlers, seine fishing, other types of fishing, the crew of a trawler, training programs and courses offered at fishing ports, and further information and advice. Some excellent photos of activities on board fishing vessels are included.
- Fishing in Distant Waters (Report on the British Fishing Industry Distant Water Trawlers) 1958, 48 pp., illus., printed. British Trawlers' Federation, Ltd., Grimsby, England. An unusually fine booklet describing, with the aid of a variety of photos and charts, the accomplishments and events of interest in the British distant-water trawling industry during 1958. Included are sections on a general survey of the industry; the fishery limits; the year in the ports of Fleet-wood, Grimsby, and Hull; safety and rescue work of the trawlers; the business of fishing; and the full text of the Convention adopted at the First United Nations Conference on the Law of the Sea. The economic significance of the industry is stressed, as well as work done by the trawlers incidental to catching fish.
- The Fishing Industry in Britain, 5 pp., No. R. 4288, printed. Reference Division, Central Office of Information, London, England, October 1959. A short survey of the fishing industry in Great Britain covering fishing ports, methods of sea fishing, the fleet, landings and imports of fishery products, fresh-water fisheries, and the distribution system. Also described briefly are promotion and regulation of the industry, the 1959 Northeast Atlantic Fisheries Conservation Convention, and whaling activities.
- White Fish Authority Account, 1957-58, 3 pp., printed, 4d. (about 5 U. S. cents). Her Majesty's Stationery Office, York House, Kingsway,

London WC2, England. Describes briefly legislation pertaining to grants for fishing vessels and engines for operations in the white fish groundfish industry. A chart shows receipts and disbursement of funds for such aid during the year ended March 31, 1958.

## WHALE MEAT:

"Determination of the Time Required for Freezing Whalemeat," by K. Tanaka and J. Nishimoto, article, <u>Bulletin de L'Institut International du</u> <u>Froid</u>, 10th International Congress of Refrigeration, vol. 39, 1959, pp. 902, 904, printed in English and French. Bulletin de L'Institut International du Froid, 177, Boulevard Malesherbes, Paris 17, France.

## WHALES:

The Scientific Reports of the Whales Research Institute, no. 14, 333 pp., illus., printed. The



Whales Research Institute, Tokyo, Japan, September 1959. Includes, among others, articles in English on: "Humpback Whales in Ryukyuan Waters," by M. Nishiwaki; "Food of Baleen Whales with Reference to Whale Movements," by T. Nemoto; and "Distribution of Amino Acid in Proteins from Various Parts of Whale Body," by T. Nakai.

## WISCONSIN:

Wisconsin Conservation Bulletin, vol. 25, no. 1, January 1960, 37 pp., illus., printed. Wisconsin Conservation Department, State Office Bldg., Madison 1, Wis. Includes, among others, these articles: "Ice Fishing for Panfish," by Roland B. Stewart and Leonard J. Druschba; "What's New in Fish Management," by C. W. Threinen; "Some Views on the Whitefish Fishery," by George R. King; and "Wisconsin's Dangerous Mollusks," by Margaret C. Teskey.

## EAT FISH FOR HEALTH

A recentbook, <u>Eat Well and Stay Well</u>, by Dr. and Mrs. Ancel Keys, with a foreword by the distinguished heart specialist, Dr. Paul Dudley White, presents, in a layman's language, the latest medical discoveries about how diet affects heart, arteries, and blood cholesterol. This book also presents a number of recipes, each with calorie count and number of grams of protein and fat.

Of particular interest to the fish merchandiser is the chapter on fish and seafood, wherein the authors give "three major reasons why fish is of merit"--

(1) "Fish contains only about half the calories of an equal weight of beef or pork--so you may 'eat hearty'."

(2) "Fish provides excellent proteins at high concentration."

(3) "Not only are fish generally low in fat, such fat as they contain does not raise the blood cholesterol level like meat and dairy fats."

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