



## FISH AND WILDLIFE SERVICE PUBLICATIONS

THESE PROCESSED PUBLICATIONS ARE AVAILABLE FREE FROM THE OFFICE 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.  
FL - FISHERY LEAFLETS.  
MNL - REPRINTS OF REPORTS ON FOREIGN FISHERIES.  
SEP.- SEPARATES (REPRINTS) FROM COMMERCIAL FISHERIES REVIEW.  
SL - STATISTICAL LISTS OF DEALERS IN AND PRODUCERS OF FISHERY PRODUCTS AND BYPRODUCTS.  
SSR.- FISH. - SPECIAL SCIENTIFIC REPORTS--FISHERIES (LIMITED DISTRIBUTION).

Number	Title
CFS-2878	- Massachusetts Landings, 1961 Annual Summary (by Gear and Subarea), 14 pp.
CFS-2906	- Mississippi Landings, 1961 Annual Summary, 5 pp.
CFS-2910	- North Carolina Landings, April 1962, 4 pp.
CFS-2912	- New Jersey Landings, April 1962, 3 pp.
CFS-2914	- California Landings, March 1962, 4 pp.
CFS-2915	- Ohio Landings, March 1962, 2 pp.
CFS-2917	- Maryland Landings, March 1962, 3 pp.
CFS-2918	- Georgia Landings, April 1962, 2 pp.
CFS-2919	- South Carolina Landings, April 1962, 2 pp.
CFS-2920	- Frozen Fish Report, May 1962, 8 pp.
CFS-2922	- Maryland Landings, April 1962, 3 pp.
CFS-2923	- Virginia Landings, April 1962, 3 pp.
CFS-2924	- Rhode Island Landings, March 1962, 3 pp.
CFS-2925	- Louisiana Landings, March 1962, 2 pp.
CFS-2926	- Ohio Landings, April 1962, 2 pp.
CFS-2928	- New York Landings, April 1962, 4 pp.
CFS-2933	- Massachusetts Landings, January 1962, 4 pp.
CFS-2935	- South Carolina Landings, May 1962, 2 pp.
CFS-2941	- Shrimp Landings, January 1962, 6 pp.
FL-57	(Revised February 1962) - Care of Goldfish, 7 pp.
FL-147	(Revised January 1962) - List of National Fish Hatcheries, 10 pp.
FL-315	(Revised February 1962) - Aquarium Construction in the Home Workshop, 7 pp.
FL-481	(Revised February 1962) - The Use of Aquatic Plants in the Home Aquarium, 4 pp.
Sep. No. 653	- Aspects of World Trade of Interest to the Fishery Industries.

Sep. No. 654 - Use of Environmental and Economic Indicators to Check Biological Fluctuations in Maine Lobster Population.

### Wholesale Dealers in Fishery Products, 1962 (Revised)

SL- 1 - Maine, 8 pp.  
SL- 2 - New Hampshire, 1 p.  
SL- 3 - Massachusetts, 9 pp.  
SL- 6 - New York Coastal Area, 10 pp.  
SL- 7 - New Jersey, 5 pp.  
SL- 8 - Pennsylvania, 3 pp.  
SL-10 - Maryland, 9 pp.  
SL-12 - Virginia, 12 pp.  
SL-13 - North Carolina, 6 pp.  
SL-14 - South Carolina, 3 pp.  
SL-15 - Georgia, 3 pp.  
SL-16 - Florida, 14 pp.  
SL-17 - Alabama, 3 pp.  
SL-19 - Louisiana, 7 pp.  
SL-20 - Texas, 6 pp.  
SL-22 - Oregon, 2 pp.  
SL-27 - Indiana (Great Lakes Area), 1 p.  
SL-29 - Ohio (Great Lakes Area), 3 pp.  
SL-30 - Pennsylvania (Great Lakes Area), 1 p.  
SL-31 - New York (Great Lakes Area), 2 pp.

SL-162 - Firms Producing Fish Sticks and Fish Portions, 1961, 3 pp. (Revised)

SSR-Fish. No. 398 - Distribution of Fish Eggs and Larvae, Temperature, and Salinity in the Georges Bank Gulf of Maine Area, 1953, by Robert R. Marak and John B. Colton, Jr., 64 pp., illus., November 1962.

SSR-Fish. No. 402 - Variations in the Dissolved Oxygen Content of Intragravel Water in Four Spawning Streams of Southeastern Alaska, by William J. M. Neil, 17 pp., illus., processed, February 1962.

Progress in Sport Fishery Research, 1961, Circular 132, 93 pp., illus., processed, 1962. This report discusses sport fishery research for the calendar year 1961 and discusses fish viruses and hepatomas, enzyme systems, amino acid requirements, hematocrits and stamina tests, quality control, estuarine research, hormone stimulation, "fish farming" and "fish control," lake productivity, pesticides, electrofishing and equilibrium yields--all descendants, of the work of earlier years, but new in concept and approach. Also includes a list of publications and special reports issued during the year.

A Report to the Congress on the Federal Aid in Fishery Conservation Program for Fiscal Year 1961, 4 pp., processed.

THE FOLLOWING MARKET NEWS LEAFLETS ARE AVAILABLE FROM THE BRANCH OF MARKET NEWS, BUREAU OF COMMERCIAL FISHERIES, U. S. FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C.

Number	Title
WNL-7	Mexican Fisheries, 1961.
WNL-53	Fisheries of Honduras, 1961.

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

Baltimore) Monthly Summary--Fishery Products, May 1962, 8 pp. (Market News Service, U.S. Fish and Wildlife Service, 103 S. Gay St., Baltimore 2, Md.) Receipts of fresh- and salt-water fish and shellfish at Baltimore by species and by states and provinces; total receipts by species and comparisons with previous periods; and wholesale prices for fresh fishery products on the Baltimore market; for the month indicated.

California Fishery Market News Monthly Summary, Part I - Fishery Products Production and Market Data, May 1962, 16 pp. (Market News Service, U.S. Fish and Wildlife Service, Post Office Bldg., San Pedro, Calif.) California cannery receipts of tuna and tunalike fish and other species used for canning; pack of canned tuna, tunalike fish, mackerel, and anchovies; market fish receipts at San Pedro, Santa Monica, and Eureka areas; California and Arizona imports; canned fish and frozen shrimp prices; ex-vessel prices for cannery fish; Oregon and Washington receipts (domestic and imports) of fresh and frozen tuna and tunalike fish; for the month indicated.

California Fishery Market News Monthly Summary, Part II - Fishing Information, June 1962, 9 pp., illus. (U.S. Bureau of Commercial Fisheries, Biological Laboratory, P.O. Box 6121, Pt. Loma Station, San Diego 6, Calif.) Contains sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists; for the month indicated.

"Fish Behavior Investigations," by R. Livingstone, Jr., Circular No. 99, pp. 42-43, illus., printed, 1960. (Bureau of Commercial Fisheries, Biological Laboratory, Woods Hole, Mass.)

Gulf of Mexico Monthly Landings, Production and Shipments of Fishery Products, May and June 1962, 8 pp. each. (Market News Service, U.S. Fish and Wildlife Service, Rm. 609, 600 South St., New Orleans 12, La.) Gulf States shrimp, oyster, finfish, and blue crab landings; crab meat production; LCL express shipments from New Orleans; wholesale prices of fish and shellfish on the New Orleans French Market; fishery imports at Port Isabel and Brownsville, Texas, from Mexico; Gulf menhaden landings and production of meal, solubles, and oil; and sponge sales; for the months indicated.

Monthly Summary of Fishery Products Production in Selected Areas of Virginia, North Carolina, and Maryland, June 1962, 4 pp. (Market News Service, U.S. Fish and Wildlife Service, 18 S. King St., Hampton, Va.) Landings of food fish and shellfish and production of crab meat and shucked oysters for the Virginia areas of Hampton Roads, Chincoteague, Lower Northern Neck, and Lower 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 on fishery products and shrimp production; for the month indicated.

New England Fisheries--Monthly Summary, May 1962, 21 pp. (Market News Service, U.S. Fish and Wildlife Service, 10 Commonwealth Pier, Boston 10, Mass.) Review of the principal New England fishery ports. Presents data on fishery landings by ports and species; industrial-fish landings and ex-vessel prices; imports; cold-storage stocks of fishery products in New England warehouses; fishery landings and ex-vessel prices for ports in Massachusetts (Boston, Gloucester, New Bedford, Provincetown, and Woods Hole), Maine (Portland and Rockland), Rhode Island (Point Judith), and Connecticut (Stonington); frozen fishery products prices to primary wholesalers at Boston, Gloucester, and New Bedford; and Boston Fish Pier and Atlantic Avenue fishery landings and ex-vessel prices by species; for the month indicated.

Production of Fishery Products in Selected Areas of Virginia, Maryland, and North Carolina, 1961, by William N. Kelly, 22 pp., processed. (Available free from the Market News Service, U.S. Fish and Wildlife Service, 18 South 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 in the specific areas mentioned. Catch and production data of fishery products in this report were obtained currently for the selected principal fishing localities of Virginia, Maryland, and North Carolina. The statistics in this summary represent partial 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 show trends in fisheries production for the specific area designated and do reflect the over-all production trend by species, localities, and states.

(Seattle) Washington and Alaska Receipts and Landings of Fishery Products for Selected Areas and Fisheries, Monthly Summary, June 1962, 9 pp. (Market News Service, U.S. Fish and Wildlife Service, 706 Federal Office Bldg., 909 First Ave., Seattle 4, Wash.) Includes Seattle's landings by the halibut and salmon fleets reported through the exchanges; landings of halibut reported by the International Pacific Halibut Commission; landings of otter-trawl receipts reported by the Fishermen's Marketing Association of Washington; local landings by independent vessels; coastwise shipments from Alaska by scheduled and non-scheduled shipping lines and airways; imports from British Columbia via rail, motor truck, shipping lines, and ex-vessel landings; imports from other countries through Washington Customs District; for the month indicated.

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"Aluminum Punch Strip Method for Measuring Fish," article, Progressive Fish-Culturist, vol. 24, no. 2, April 1962, p. 87, illus., processed, 25 cents.

Fishery Statistics of the United States, 1960, by E.A. Power, Statistical Digest No. 53, 531 pp., illus., printed, \$2.75, 1962. The latest in a series of annual statistical reports on the fisheries of the United States contains data on the volume and value of the catch of fishery products, employment in the fisheries, quantity of gear operated, number of fishing craft employed in the capture of fishery products, and information on the volume and value of the

production of manufactured fishery products and by-products. A special feature is a review of the Pacific Coast halibut fishery for the years 1888 to 1960.

The 1960 commercial fisheries of the United States yielded a catch of 4.9 billion pounds valued at \$353.6 million to the fishermen. Only in 1956, when a record 5.3 billion pounds were taken, and in 1959 (5.1 billion pounds) was the annual harvest greater. Compared with 1959, the catch was down 180 million pounds or 4 percent while the value was up over \$7 million or 2 percent. The average price paid to fishermen in 1960 was 7.2 cents per pound--a little higher than in the previous year.

Sharp declines in landings of menhaden, Alaska herring, Pacific sardines, squid, and miscellaneous species used in the manufacture of industrial products resulted in the reduced volume. Increases occurred in catches of Pacific salmon, yellowfin tuna, jack mackerel, crabs, and Maine herring.

Menhaden continued to rank first in volume--a position it had held continuously since 1946. The catch of 2 billion pounds--41 percent of the total U.S. production of all species of fish and shellfish, etc.--was 184 million pounds less than in 1959; however, it was the third largest catch in the history of the fishery.

In 1960, the Pacific Coast tuna fishery recovered from the chaotic conditions of the previous year. Landings totaled 288 million pounds--20 million pounds more than in 1959. Outstanding in the economic recovery of the tuna fishery was the spectacular success of clippers converted to seiners. Tuna seiners were more efficient and economical, taking larger catches in less than one-half the time required by tuna clippers.

Shrimp continued to yield more revenue to U.S. fishermen than any other species. The catch amounted to 249 million pounds, with an ex-vessel value of nearly \$67 million. The volume was up 9 million pounds and the value \$9 million compared with the previous year. Despite increased catches during 1960, the industry was still greatly concerned over the continuing rise in imports which totaled a record 113 million pounds. Primarily through the National Shrimp Congress, the industry continued its effort to have legislation enacted that would provide for an orderly flow of imports.

The 1960 Pacific salmon catch totaled 235 million pounds valued at \$45 million--much better than in 1959 when 202 million pounds valued at \$36 million were landed. However, only in Western and Central Alaska was the season really successful. In some areas, the fishery was nearly a failure.

Red salmon returned to Bristol Bay, Alaska, in near record numbers in 1960. The total run, estimated at well over 35 million fish, yielded a catch of about 13.5 million fish, of which almost 10 million were taken in the Naknek-Kvichak area. Over 20 million fish (perhaps a new record) escaped capture and reached spawning grounds.

Once again, the California sardine season was a failure. The catch dropped from 74 million pounds in 1959 to only 38 million pounds in 1960--the fourth

smallest catch since 1915. There was no lack of interest in fishing, and weather did not limit activity. Sardines just failed to appear in appreciable quantities. High surface water temperatures were believed at least partially, to be the cause of poor showing of sardines during most of the season.

San Pedro, Calif., was the leading fish landing in the U.S. in 1960 with respect to both volume and ex-vessel value. Total landings in the San Pedro area, consisting largely of tuna, jack and Pacific mackerel and sardines, amounted to 375 million pounds valued at nearly \$33 million. Pascagoula, Miss., a menhaden port, was in second place with landings of about 302 million pounds, followed by Lewes, Del., with landings of around 282 million pounds, chiefly menhaden. The menhaden ports of Empire and Cameron, La., were next with landings of 216 million pounds and 205 million pounds, respectively. Gloucester, Mass., was in sixth place with landings totaling 192 million pounds, consisting mainly of whiting, ocean perch, and industrial fish. New Bedford, Mass., was in second place with respect to ex-vessel value of landings (over \$13 million), followed by Boston, Mass. (\$9.6 million), Gloucester, Mass. (\$6 million). The predominance of high-priced sea scallops and flounders in the New Bedford receipts accounted for the high value, although the volume was much less than at other landing ports.

#### Improving Sport Fishing by Control of Aquatic Weeds

by Eugene W. Surber, Circular 128, 53 pp., illustrated, processed, 35 cents, 1961. A publication to aid fishery biologists, pond owners, and others who are encountering problems with aquatic weeds. Large amounts of either submersed or emergent vegetation in fishpond waters often interferes with anglers' efficiency, and also leads to overpopulation of stunted fish. The author points out that one of the best ways to control submersed or underwater plants in shallow ponds is to apply fertilizer to the water. The fertilizer encourages the growth of microscopic green or blue-green plants called algae. This free-floating algae, when it becomes dense enough, shades out the larger plants. Many aquatic plants, however, cannot be easily controlled by fertilization, and the algae itself can become a problem. In these cases, chemical control can be effective. A list of aquatic plants and chemicals that control them is included. Methods of application are discussed and easy-to-follow instructions on measuring the volume of water to determine the rate of application also are included. Various mechanical methods of control are mentioned, including cutting bars and hand-operated weed-cutting

"An Interim Report on Sacramento River Chinook Disease: A Viruslike Disease of Chinook Salmon," by Thomas J. Parisot and John Pelnar, article, *Progressive Fish-Culturist*, vol. 24, no. 2, April 1961, pp. 51-55, illus., processed, 25 cents.

"Predation of Crayfish on Fishes," by W.L. Minckley and James E. Craddock, article, *Progressive Fish-Culturist*, vol. 23, no. 3, 1961, pp. 120-123, processed, 25 cents.

"Standards for Reporting Fish Toxicity Tests," by W. B. Cope, article, *Progressive Fish-Culturist*, vol. 23, no. 4, 1961, pp. 187-189, processed, 25

## MISCELLANEOUS PUBLICATIONS

THESE PUBLICATIONS ARE NOT AVAILABLE FROM THE FISH AND WILDLIFE SERVICE, BUT USUALLY MAY BE OBTAINED FROM THE ORGANIZATION ISSUING THEM. CORRESPONDENCE REGARDING PUBLICATIONS THAT FOLLOW SHOULD BE ADDRESSED TO THE RESPECTIVE ORGANIZATIONS OR PUBLISHER MENTIONED. DATA ON PRICES, IF READILY AVAILABLE, ARE SHOWN.

### ALABAMA:

"An Annotated List of Fishes from the Coosa River System of Alabama," by Herbert R. Boschung, Jr., article, The American Midland Naturalist, vol. 66, no. 2, 1961, pp. 257-285, printed. American Midland Naturalist, Notre Dame, Ind.

### ALEWIVES:

"Restoration of Anadromous Alewives at Long Pond, Maine," by Keith A. Havey, Transactions of the American Fisheries Society, vol. 90, no. 3, 1961, pp. 281-286, printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

### AMINO ACIDS:

"Studies on the External Mucous Substance of Fishes. III--Identification of Amino Acids in the Mucous Protein from Some Fishes by Paper Chromatography," by Noriyuki Enomoto, Tadaaki Nagao, and Yukio Tomiyasu, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 27, no. 2, 1961, pp. 143-146, printed. Japanese Society of Scientific Fisheries, 6-Chome, Shiba-Kaigandori, Minato-Ku, Tokyo, Japan.

### ANIMAL FEEDING:

"Processed Foods for Dogs and Cats," by W.R. Woolridge, article, Food Manufacture, vol. 36, no. 4, pp. 162-163, printed. Leonard Hill Ltd., 9 Eden St., London NW1, England.

### ANIMAL NAVIGATION:

"Animal Navigation in the Sea," by Talbot H. Waterman, article, Gunma Journal of Medical Science, vol. 8, no. 3, 1961, pp. 243-262, printed. Gunma University Medical Library, Maebashi-shi, Japan.

### ANTIOXIDANT:

"Applicability of Antioxidant to Marine Products," by K. Toyama, K. Saruya, and K. Ando, article, Journal of Tokyo University of Fisheries, vol. 46, no. 1/2, 1960, pp. 107-131, illus., printed. Tokyo University of Fisheries, Shiba Kaigandori, 6-Chome, Minato-Ku, Tokyo, Japan.

### BARRACUDA:

"Tagging of Great Barracuda, SPHYRAENA BARRACUDA (Walbaum), by Victor G. Springer and Andrew J. McErlean, Contribution No. 53, 4 pp., illus., printed. (Reprinted from Transactions of the American Fisheries Society, vol. 90, no. 4, October 1961, pp. 497-500.) Florida State Board of Conservation Marine Laboratory, St. Petersburg, Fla.

### BIOCHEMISTRY:

"The Nature of the Components Liberated by Treatment of Cod Myosin with Alkali or with Low Concentration of Urea," by J.J. Connell and H.S. Olcott, article, Archives of Biochemistry and Biophysics, vol. 94, 1961, pp. 128-135, illus., printed. Archives of Biochemistry and Biophysics, Academic Press, Inc., 111 5th Ave., New York 3, N.Y.

### BIOLOGICAL INSTITUTE:

"Biologicheskii Institut Vengerskoi Akademii Nauk" (The Biological Institute of the Hungarian Academy of Sciences), by S.V. Goryunova and L.K. Osnitskaya, article, Izvestia Akademii Nauk. SSSR Serii Biol., vol. 6, 1960, pp. 942-944, printed in Russian. Akademiia Nauk. SSSR. Serii Biol., Moscow, U.S.S.R.

### BLACK DRUM:

"Young Black Drum, Pogonias cromis, in Tidal Fresh and Brackish Waters, Especially in the Chesapeake and Delaware Bay Areas," by Charles M. Frisbie, article, Chesapeake Science, vol. 2, nos. 1-2, 1961, pp. 94-100, printed. Department of Research and Education, Chesapeake Biological Laboratory, Solomons, Md.

### BONITO:

"Notes on Larvae, Juveniles, and Spawning of Bonito Sarda from the Eastern Pacific Ocean," by W.L. Klawe, article, Pacific Science, vol. 15, no. 4, 1961, pp. 487-493, printed. Pacific Science, University of Hawaii, Honolulu 14, Hawaii.

### BROOK TROUT:

"Growth of Wild and Hatchery Strains of Brook Trout," by Edwin L. Cooper, article, Transactions of the American Fisheries Society, vol. 90, no. 4, 1961, pp. 424-438, printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

A Population Study of the Brook Trout, SALVELINUS FONTINALIS, by James T. McFadden, Wildlife Monographs (Wildlife Society), no. 7, 73 pp., printed. The Pennsylvania State University, University Park, Pa.

### CANADA:

"A Collection of Oceanic Fishes from off British Columbia with a Discussion of the Evolution of Black Peritoneum," by D.E. McAllister, article, National Museum of Canada Bulletin, vol. 172, 1960, pp. 39-43, printed. National Museum of Canada, Ottawa, Canada.

Fisheries Statistics of Canada, 1960 (Prince Edward Island), 23 pp., illus., printed in French and English, 50 Canadian cents. Queen's Printer and Controller of Stationery, Ottawa, Canada, May 1962. Consists of tables giving the quantity and value of the principal species of fish and shellfish landed in Quebec from 1948-60; quantity and value of landings by species and fisheries districts, 1959-60; quantity and value of manufactured fishery products by species, 1959-60; capital equipment employed in the primary fisheries operations, 1959-60; classification of powered fishing craft by over-all length, 1959-60; persons engaged in primary operations by fisheries districts, 1959-60; and persons engaged in the major fisheries, 1959-60.

Journal of the Fisheries Research Board of Canada, vol. 19, no. 3, May 1962, 157 pp., illus., printed. Queen's Printer and Controller of Stationery, Ottawa, Canada. Contains among others, the following articles: "The Occurrence of the King Crab, Paralithodes camtschatica (Tilesius), and of Lithodes aequispina Benedict in British Columbia," by T.H. Butler and Josephine F.L. Hart; "Enumeration of Coliform Bacteria in Light Salted Fish Brines," by H.P. Dussault; "Cod Tagging in the Newfoundland Area during 1947 and 1948," by Wilfred Templeman

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24, no. 4, 1961, pp. 183-184, printed in Czechoslovakian. Ceskoslovensha Akademie, Ved. Zoologicka, Komise, nove mestv, Vodickova 40, Prague 1. Czechoslovakia.

#### FISH TAGGING:

"Fish Tagging," by Stacy Gebhards, article, Idaho Wildlife Review, vol. 14, no. 6, May-June 1962, pp. 6-7, illus., printed. Idaho Fish and Game Commission, 518 Front St., Boise, Idaho. Gives short background of fish tagging and recovery. Discusses also the common types of fish tags, information provided by tagging studies, and the value of the data for fishery management.

#### FLORIDA:

Catch and Fishing Effort by Anglers in Florida's Coastal and Offshore Waters, by Albert Rosen and Robert W. Ellis, Special Service Bulletin No. 18, 12 pp., illus., printed. Florida State Board of Conservation, W.V. Knott Bldg., Tallahassee, Fla., November 1961.

Notes on and Additions to the Fish Fauna of the Tampa Bay Area in Florida, by Springer and Woodburn, Contribution No. 52, 3 pp., printed. (Reprinted from Copeia, no. 4, December 19, 1961, pp. 480-482.) Florida State Board of Conservation, Marine Laboratory, St. Petersburg, Fla.

#### FLOUNDERS:

"Nekotorye Dannye o Raspredelenii Kambalovykh Ryb v Raione Severnykh Kuril'skikh Ostrovov" (Some Data on the Distribution of Flounders in the Region of the Northern Kuril Islands), by M.I. Legeza, article, Trudy Instituta Okeanologii Akademii Nauk SSSR, vol. 36, 1959, pp. 275-281, printed in Russian. Izdatel'stvo Akademii, Nauk SSSR, Moscow, U.S.S.R.

"A Study of Winter Flounder Movements," by Saul B. Salla, article, Limnology and Oceanography, vol. 6, no. 3, 1961, pp. 292-298, printed. Woods Hole Oceanographic Institution, Woods Hole, Mass.

#### FOOD:

Fish as Food, vol. 1, edited by Georg Borgstrom, 726 pp., printed, \$24. Academic Press, 111 Fifth Ave., New York 3, N.Y., August 1961. This is the first of three volumes designed to give an up-to-date account of the world's resources of fish, shellfish, and other aquatic organisms suitable for food and feed, their present exploitation and future potentialities. Most of the world's leading fish scientists have contributed to the volumes. Of particular importance is the inclusion of Soviet and Japanese investigations previously unavailable in English. The book is a valuable source of information for all those engaged in the study of marine and fresh-water organisms utilized as food. It also includes valuable and abundant information for the chemist, biologist, bacteriologist, and food technologist concerned with food commodities other than fish. The contents are as follows: Biology of Seafish Production; World Fisheries; Fish Cultivation in Europe; Carp Cultivation in Japan; Raising Fish for Food in Southeast Asia; Organic Constituents of Fish and Other Aquatic Animal Foods; Biochemistry of Fish Oils; Recent Findings in Fatty Acid Composition of Marine Oils; Fish Proteins with Special Reference to Freezing;

The Histamine Problem; Nonprotein Nitrogenous Compounds; Rigor Mortis in Fish; Vitamins in Fish--Special Reference to Edible Parts; The Microbiology of Sea-Water Fish; Microbiology of Shellfish Deterioration; The Spoilage of Fresh-Water Fish; and Chemical Control of Microbiological Deterioration. Sp. lists of species mentioned in the text, prepared in Latin and English arrangement are appended. The contents of vol. II and vol. III are also listed in the present volume.

#### FOOD CONSUMPTION:

Dietary Evaluation of Food Used in Households in the United States, by Corinne LeBovit and others, Household Food Consumption Survey 1955, Report No. 16, 60 pp., illus., printed, single copy 40 cents. Household Economics Research Division, Agricultural Research Service, U.S. Department of Agriculture, Washington, D.C., November 1961. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.) Fish included in tables only in the basket category of "meat, poultry, fish."

#### FOOD STORAGE:

Storing Perishable Foods in the Home, Home and Garden Bulletin No. 78, 12 pp., illus., printed, 10 cents. U.S. Department of Agriculture, Washington, D.C., October 1961. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.) This booklet offers specific storage suggestions for foods, including fish. Discusses indication of food spoilage, variations in the degree of temperature and the amount of moisture needed to retain quality in storage, temperatures in the refrigerators, and storage directions for all foods. Fish may be stored in the coldest part of the refrigerator for one or two days. Loose wrappings are suggested as fish benefit from some circulation of air.

#### FOREIGN TRADE:

"Here are FCIA's Questions, Answers on Foreign Credit Insurance Plan," article, Foreign Commerce, vol. 67, no. 13, March 26, 1962, pp. 496-500, printed. Foreign Credit Insurance Association, 60 John St., New York 38, N.Y. Because of the intense interest on the part of American exporters in the new export credit procedures of the Export-Import Bank's Foreign Credit Insurance Association (FCIA), detailed information prepared by FCIA is reprinted in a question-and-answer form. Included also are samples of FCIA's Short Term-Shipment form.

#### FRANCE:

"Une Annee de Peche Francaise--Le Rapport sur l'Activite du Comite Central des Peches Maritimes en 1961" (One Year of French Fishing--Report on the Work of the Central Committee of Maritime Fisheries in 1961), and "L'Activite des Comites Interprofessionnels" (Activity of the Interprofessional Committees), by J.S. Parquic, articles, France Peche, vol. 7, no. 62, April 1962, pp. 27-30, 32, 34, 36, 38, 40, 42, 44, 46, 48-49, and vol. 7, no. 63, May 1962, pp. 62, 65-66, 69-70, 73, printed in French. France Peche, Boite Postale 179, Lorient (Morbihan), France.

"Extraits du Rapport final presente par la commission des Peches maritimes du Quatrieme Plan" (Extraits

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of the Final Report Presented by the Commission of Maritime Fisheries of the Fourth Plan), article, France Peche, no. 58, January 1962, pp. 13-14, printed in French. France Peche, Boite Postale 179, Lorient (Morbihan), France.

"La Position des Peches Francaises" (Status of French Fisheries), by Jules Molard, article, France Peche, vol. 7, no. 61, April 1962, pp. 15-16, printed in French. France Peche, Boite Postale 179, Lorient (Morbihan), France.

"Reflexions sur la densite des especes" (Considerations on the Abundance of the Species), by Robert Lenier, article, France Peche, no. 58, January 1962, pp. 17-19, illus., printed in French. France Peche, Boite Postale 179, Lorient (Morbihan), France.

"Une Saison de prospection du Roselys" (A Season of Exploration by the "Roselys"), article, France Peche, no. 58, January 1962, pp. 40-42, illus., printed in French. France Peche, Boite Postale 179, Lorient (Morbihan), France.

"La Situation de l'Industrie de la Conserve du Thon et de la Sardine Avant la Campagne de 1962" (Status of the Tuna and Sardine Canning Industry Before the 1962 Season), by A. de Torquat, article, La Peche Maritime, vol. 41, no. 1010, May 1962, pp. 295-296, illus., printed in French. La Peche Maritime, 190 Boulevard Haussman, Paris, France.

#### FREEZE-DRYING:

"Accelerated Freeze-Drying in Fish Processing," by E.A.M. Bradford, article, The Fishing News, vol. 1, no. 1, October 1961, pp. 102, 105-106, illus., printed. The Fishing News, Suite 27, 110 Fleet St., London EC4, England.

"Freeze-Drying Takes First Giant Step," article, Quick Frozen Foods, vol. 23, no. 11, pp. 43-45, illus., printed. E.W. Williams Publications, Inc., 82 Wall St., New York 5, N.Y.

"How Liana Freeze-Dries Shrimp and Plans Full Line of Sublimated Food Products," by K.A. Andersen, article, Canner and Packer, Western Edition, vol. 130, July 1961, pp. 23-24, illus., printed. Tried Publishing Co., 59 East Monroe St., Chicago 3, Ill.

"Prospect for Freeze-Drying," article, Modern Refrigeration, vol. 64, no. 760, July 1961, pp. 690-692, illus., printed. Refrigeration Press Ltd., Maclaren House, 131 Great Suffolk St., London SE1, England.

#### FREEZING:

"Associated Fisheries' New Trawler Can Freeze Half Her Catch at Sea," article, Frozen Foods, vol. 14, no. 7, July 1961, pp. 476-477, illus., printed. Maclaren House, 131 Great Suffolk St., London SE1, England.

"Freezing on Board Ship is a Logical Step Forward," by G.C. Eddie, article, Frozen Foods, vol. 14, no. 9, September 1961, pp. 646-650, 660, printed. Maclaren House, 131 Great Suffolk St., London SE1, England.

Freezing on Board, Some Factors Affecting Design of Vessel and Choice of Equipment, by G.C. Eddie, Torry Report No. 1, 11 pp., printed. Torry Research Station, Aberdeen, Scotland, 1961.

"Optimal'nye Usloviya Zamorazivaniya Ryby v Potoke Vozduha" (Optimum Conditions for Freezing Fish in an Air Blast), by G.S. Konokotin, article, Kholodil'naia Tekhnika, no. 5, 1961, pp. 53-58, illus., printed in Russian. Four Continent Book Corp., 822 Broadway, New York 3, N.Y.

#### FROZEN FISH:

"Frozen Fish: Marinated Fillets of Salt Herring; Fillets of Spiced Herring," article, 1960 Beretning, Fiskeriministeriets Forsogslaboratorium, pp. 43-45, printed in Danish and English. Fiskeriministeriets Forsogslaboratorium, Copenhagen, Denmark, 1961.

"Frozen Fish: Shrimp," article, 1960 Beretning, Fiskeriministeriets Forsogslaboratorium, p. 42, printed. Fiskeriministeriets Forsogslaboratorium, Copenhagen, Denmark, 1961.

"Microbiology of Frozen Seafoods," article, Frosted Food Field, vol. 32, no. 4, April 1961, pp. 31-32, illus., printed. Frosted Food Field, 321 Broadway, New York 7, N.Y.

"Quick-Thawing Frozen Fish," article, The Fishing News, vol. 1, no. 1, October 1961, pp. 108-109, illus., printed. The Fishing News, Suite 27, 110 Fleet St., London EC4, England.

#### FROZEN STORAGE:

"Tiefkuhlhaus in Leichtbauweise fur Gefrierfischlagerung" (A Cold Store of Light Structure for the Storage of Frozen Fish), by H.J. Eckert, article, Kaltetechnik, vol. 12, no. 7, July 1960, pp. 196-199, illus., printed in German. Verlag C.F. Muller, Karlsruhe, Germany.

#### GENERAL:

"All About Fish," by Howard Zeller, article, Georgia Game and Fish, vol. 11, no. 1, pp. 10-11, illus., printed. Georgia Game and Fish Commission, 412 State Capitol Bldg., Atlanta, Ga. Discusses the basic scientific knowledge of fish as an animal group such as classification, vision of fish, sense of smell and touch, hearing, and internal anatomy. Includes also some fishing tips.

#### GERMAN FEDERAL REPUBLIC:

Bericht uber Stellung und Lage der Seefischerei der Bundesrepublik Deutschland (Report on the Position and Status of Marine Fisheries of the Federal Republic of Germany), Deutscher Bundestag--4, Wahlperiode, Drucksache IV/230, 35 pp., illus., printed in German. Der Bundesminister fur Ernahrung, Landwirtschaft und Forsten, Bonn, Germany, February 28, 1962. Reviews the status of the West German fishing industry and proposes a considerable increase in government aid in the form of subsidies and loans.

#### GILL NETS:

"Selectivity and Efficiency of Experimental Gill Nets in South Bay and Georgian Bay of Lake Huron," by

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

A.H. Berst, article, Transactions of the American Fisheries Society, vol. 90, no. 4, 1961, pp. 413-418, printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

#### GROUPERS:

Synopsis of Biological Data on Groupers (EPINEPHELUS and Allied Genera) of the Western North Atlantic, by C. Lavett Smith, FAO Fisheries Biology Synopsis No. 23, FB/S23, SATS-Groupers-1,70 (2), 65 pp., illus., processed (limited distribution). Fisheries Division, Biology Branch, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, Rome, Italy, December 1961. This is one of a series of synopses of biological data concerning species of aquatic organisms of economic importance. Discusses the identity of the species, distribution, bionomics and life history, population, and exploitation. Also contains a complete list of references.

#### HAKE:

"Size Distribution by Depth of the Longfin Hake, Phycis chesteri," by Raymond L. Fritz, article, Copeia, no. 2, 1961, pp. 229-230, printed. American Society of Ichthyologists and Herpetologists, 18111 Nordhoff St., Northridge, Calif.

#### HALIBUT:

Memorandum on 1962 Pacific Halibut Fishery Regulations, 2 pp., processed. International Pacific Halibut Commission, Fisheries Hall No. 2, University of Washington, Seattle 5, Wash. Lists the significant changes of the 1962 regulations from those of 1961.

Pacific Halibut Fishery Regulations (Effective March 27, 1962), 11 pp., printed. International Pacific Halibut Commission, Fisheries Hall No. 2, University of Washington, Seattle 5, Wash., March 1962. These regulations were published in conformity with the Pacific Halibut Fishery Convention between the United States and Canada, signed March 2, 1953. They are based on biological and statistical investigations, designed to show what catch can be taken from the stocks each year. Lists the regulatory areas and length of the halibut fishing seasons, and discusses closed seasons, catch limits, size limit, and licensing of vessels. Also covers conditions limiting validity of permits, statistical return by vessels and dealers, dory gear and nets prohibited, retention of tagged halibut, responsibility of master, supervision of unloading and weighing, and sealing of fishing equipment.

#### ICELAND:

"Rannsoknir a veidum med dragnot vorid 1961" (Comparative Fishing with Danish Seine, Spring 1961), by C.P. Joakimsson, article, Aegir, vol. 54, no. 16, 1961, pp. 325-327, illus., printed in Icelandic with English summary. Fiskifelag Islands, Reykjavik, Iceland.

#### ICE STORAGE:

"Influence of Various Factors on Keeping Quality of Fish and Changes in Nitrogen Distribution and Texture of Fish During Storage in Ice," by M.N. Moorjani, article, Food Science, July 1961, pp. 201-212, printed. Central Food Technological Research Institute, Mysore, India.

#### IMPORTS:

United States Imports of Merchandise for Consumption (Commodity by Country of Origin), Calendar Year 1961, Report No. FT 110, 204 pp., illus., processed \$1. Bureau of the Census, U.S. Department of Commerce, Washington, D.C., May 1962. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.) The import statistics include government as well as nongovernmental shipments of merchandise (including fish, shellfish, and fishery byproducts) from foreign countries.

#### INTERNATIONAL COMMISSIONS:

"Colaboracion con la Comision Internacional de Pesquerias del Atlantico Noroeste (ICNAF)" (Collaboration with the International Commission for the Northwest Atlantic Fisheries--ICNAF), by O. Rodriguez, article, Boletin de la Real Sociedad Espanola de Historia Natural, vol. 58, no. 2, 1960, pp. 314-334, illus., printed in Spanish. Real Sociedad Espanola de Historia Natural, Paseo de la Castellana, 84, Madrid, Spain.

#### IRRADIATION PRESERVATION:

"Food Preservation Research in Sweden," by L.E. Ericson, article, Food Irradiation, Quarterly International Newsletter, vol. 2, no. 2, October-December 1961, pp. A2-A5, printed. O.E.E.C. Mission, Publications Office, Suite 1223, 1346 Connecticut Ave., NW., Washington 6, D.C.

"Zur Problematik der Strahlenkonservierung von Lebensmitteln" (Preservation of Foodstuffs by Means of Irradiation), by J. Kuprianoff, article, Atomkernenergie, vol. 4, 1959, pp. 296-299, printed in German. Karl Thiemig KG, Pilgersheimer Strasse 38, Murnau, Germany.

"The Revised U.S. Army Quartermaster Corps Program on Food Preservation by Ionizing Energy," by William B. Levin, article, Food Irradiation, Quarterly International Newsletter, vol. 2, no. 2, October-December 1961, pp. A6-A9, printed. O.E.E.C. Mission, Publications Office, Suite 1223, 1346 Connecticut Ave., NW., Washington 6, D.C.

#### JAPAN:

Memoirs of the Faculty of Fisheries, Kagoshima University, vol. 10, December 1961, 130 pp., illus., printed in Japanese with English summaries. Includes, among others, the following articles: "Studies on the Radiological Contamination of Fishes, Shellfish and Plankton in the Southern Region of Kagoshima Prefecture during the Period from November 1959 to December 1960," by Muneo Sameshima and Saito Kaname; "On the Proteolysis and Coagulation of Actomyosin Fraction of Fish Muscle by Action of Bacterial Proteinase," by Tomio Hidaka; "Studies on the Vitamin B-complex in Marine Algae. I--On Vitamin Contents," by Akio Kanazawa; "Studies on the Tannage of Fish Skin," by Michitoshi Ochi; "On the Relation Between Body-Temperature of Macke 'Gomasaba' and Its Fishing Depth," by Toyotaka Tanoue; "Experiments Performed in a Large Circulating Tank on a Model of a Fishing Vessel of Gross Tonnage About 1,000 Tons," by Yoshikazu Narasaka and "On the Building Cost of Kagoshima-Maru, Fisheries Training Ship, Kagoshima University," by Kazuo Takahashi.

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

## KOREA:

Korean Exports, 1962, 206 pp., illus., printed. Chamber of Commerce of Korea, 111 Sokong-dong, Seoul, Korea, 1962. Deals with the annual investigation into actual conditions of Korean exports conducted for the purpose of introducing Korea's exports to foreign countries. Part 1 includes, among others, a section on the fishing industry--one of the major industries of Korea. This section gives a general description of the fishing industry, and an analysis of Korea's fisheries export market. Quantity and value of fishery products exports for 1960 are also included. Part 2 contains general trade information, and Part 3 is a trade directory listing exporters, manufacturers, and associations.

## LAKE TROUT:

"Recoveries of Tagged, Hatchery-Reared Lake Trout from Lake Superior," by Howard J. Buettner, article, Transactions of the American Fisheries Society, vol. 90, no. 4, 1961, pp. 404-412, printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

## LAMPREY:

"Colorimetric Determination of Halogenated Nitrophenols Added to Streams as Sea Lamprey Larvicides," by M.A. Smith, V.C. Applegate, and B.G.H. Johnson article, Analytical Chemistry, vol. 32, 1960, pp. 1670-1675, printed. American Chemical Society, 1155 16th St., NW., Washington 6, D.C.

## LAWS AND REGULATIONS:

Synopsis of Oregon Boating Laws and Regulations, 23 pp., printed. Oregon State Marine Board, Salem 10, Oreg., February 1, 1961. Outlines the boating laws and regulations of the State of Oregon for the purpose of making the waters safer for boaters and other users. Includes information regarding registration, duties of State Marine Board and disposition of fees, equipment requirements, and general information on lights and equipment. Also includes information on rules of right of way, illegal operation, local regulations, law enforcement, and related information.

## LOUISIANA:

An Ecological Survey of Factors Affecting Fish Production in Louisiana Waters, by Donald W. Geagan and Thomas D. Allen, Dingell-Johnson Project F-6-R Louisiana, 100 pp., printed. Louisiana Wild Life and Fisheries Commission, Fisheries Section, Wild Life and Fisheries Bldg., 400 Royal St., New Orleans 16, La., 1960.

## MACKEREL:

"Consideraciones acerca del crecimiento de la Caballa (Scomber scombrus L.)" (Considerations on the Growth of Mackerel, Scomber scombrus L. in the Spanish Mediterranean) by C. Bas, article, Investigacion Pesquera, vol. 16, 1960, pp. 33-90, illus., printed in Spanish with English summary. Investigacion Pesquera, University of Barcelona, Spain.

## MARINE SCIENCES:

Marine Sciences Instrumentation, by Roy D. Gaul and others, vol. 1, 354 pp., illus., printed, \$12.50. Plenum Press, 227 W. 17th St., New York 11, N.Y. Collection of instrumentation papers presented at the Marine Sciences Conference, 1961, at Woods Hole, Mass.

## MENHADEN:

"Fecundity and Reproduction in the Large-scale Menhaden, Brevoortia patronus Goode," by Royal D. Sutt-kus and I. Bangalore, article, Tulane Studies in Zoology, vol. 8, no. 6, 1961, pp. 177-182, printed. Tulane Studies in Zoology, Tulane University, New Orleans 18, La.

## MICROBIOLOGY:

"Badania mikrobiologiczne ryb w toku manipulacyjnym" (Microbiological Analysis of Fish During Processing), by S. Niewolak, article, Zeszyty Naukowe Wyzszej Szkoły Rolniczej w Olsztynie, vol. 10, no. 84, 1960, pp. 1-21, printed in Polish with English and Russian summaries. Wydawnictwo WSR w Olsztynie, Olsztyn, Poland.

## MORTALITY OF FISH:

"Studies on Estimation of Mortalities. 1--Comparison of a Method Described by Beverton and Holt and a New Linear Formula," by J.E. Paloheimo, article, Journal of the Fisheries Research Board of Canada, vol. 18, no. 5, 1961, pp. 645-662, printed. Queen's Printer and Controller of Stationery, Ottawa, Canada.

## MUSSELS:

"Ensayo Sobre el Efecto de la Luz en el Ritmo de Crecimiento del Mejillon (Mytilus edulis) en la Ria de Vigo" (Experiments to Determine the Effect of Light on the Rate of Growth of Mussels, Mytilus edulis, in the Estuary of Vigo), by B. Andreu, article, Boletin de la Real Sociedad Espanola de Historia Natural, vol. 58, no. 2, 1960, pp. 217-236, illus., printed in Spanish with English summary. Real Sociedad Espanola de Historia Natural, Paseo de la Castellana 84, Madrid, Spain.

## NAVIGATION:

Rules of the Road, Great Lakes, CG-172, 66 pp., printed. U.S. Coast Guard, Treasury Department, Washington 25, D.C., May 1, 1959. Contains navigation requirements which must be followed by vessels navigating upon the Great Lakes and their connecting and tributary waters. Related laws and regulations affecting navigation on the Great Lakes under the cognizance of the Coast Guard, as well as certain pertinent general regulations of the Corps of Engineers, Department of the Army, are also included.

Rules of the Road, International-Inland, CG-169, 93 pp., printed. U.S. Coast Guard, Treasury Department, Washington 25, D.C., May 1, 1959. Contains the amended international Regulations for Preventing Collision at Sea, 1948, which are to be followed by all public and private vessels and seaplanes of the United States while navigating upon the high seas and the rules to prevent collisions to be followed by all vessels while navigating upon certain inland waters of the United States. Related laws and regulations affecting navigation in coastal inland waters under the cognizance of the Coast Guard are also included.

Rules of the Road, Western Rivers, CG-184, 62 pp., printed. U.S. Coast Guard, Treasury Department, Washington 25, D.C., May 1, 1959. Contains the navigation requirements which must be followed by all public and private vessels while navigating on the western rivers. Related laws and regulations are also included.

## NORTH DAKOTA:

Evaluation of Commercial Fishing by Use of a Questionnaire, by Louis H. Carufel, 4 pp., illus., printed.



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

(Reprinted from The Progressive Fish-Culturist, vol. 22, no. 4, October 1960, pp. 181-184.) North Dakota Game and Fish Department, Bismarck, N.D. Results of a survey initiated in 1953 of the fishery in the Missouri and Yellowstone Rivers. The survey was initiated at that time in order to secure information before river habitat was lost as a result of the construction of Garrison Dam. Information was compiled regarding commercial utilization, including a comparison of the catches made with various types of gear and a tabulation of the poundage of fish taken.

#### NUTRITIVE VALUE:

"Fish and Unavailable Iron," article, Nutrition Reviews, vol. 19, 1961, pp. 143-144, printed. The Nutrition Foundation, Inc., 99 Park Ave., New York 16, N.Y.

#### OYSTERS:

Gametogenesis and Spawning of the European Oyster, O. EDULIS, in Waters of Maine, by V.L. Loosanoff, 9 pp., illus., printed. (Reprinted from Biological Bulletin, vol. 122, no. 1, February 1962, pp. 86-94.) U.S. Bureau of Commercial Fisheries, Biological Laboratory, Milford, Conn.

Survival and Growth of Larvae of the European Oyster, O. EDULIS, at Lowered Salinities, by Harry C. Davis and Alan D. Ansell, 7 pp., illus., printed. (Reprinted from Biological Bulletin, vol. 122, no. 1, February 1962, pp. 33-39.) U.S. Bureau of Commercial Fisheries, Biological Laboratory, Milford, Conn.

#### PACIFIC NORTHWEST:

Common Seashore Life of the Pacific Northwest, by Lynwood Smith, 66 pp., illus., printed, \$3.25; paper, \$1.75. Naturegraph Co. and Naturegames Publishers, 8339 W. Dry Creek Rd., Healdsburg, Calif. Guide to common and conspicuous beach life; describes habits and characteristics.

#### PELAGIC FISH:

"Banded Color Phases of Two Pelagic Fishes, Coryphaena hippurus and Katsuwonus pelamis," by Donald W. Strasburg and John C. Marr, article, Copeia, no. 2, 1961, pp. 226-228, printed. American Society of Ichthyologists and Herpetologists, 18111 Nordhoff St., Northridge, Calif.

#### PHOTOGRAPHY:

A Technique for Direct Photography of Translucent Objects, by Andrew J. McErlean and Ronald C. Phillips, Contribution No. 57, 2 pp., illus., printed. (Reprinted from Transactions of the American Fisheries Society, vol. 90, no. 4, October 1961, pp. 500-501.) Florida State Board of Conservation Marine Laboratory, St. Petersburg, Fla.

#### PIKE:

"Propagation of Northern Pike," by Laurence E. Hiner, article, Transactions of the American Fisheries Society, vol. 90, no. 3, 1961, pp. 298-302, printed. Secretary, American Fisheries Society, P.O. Box, 483, McLean, Va.

#### PIKE-PERCH:

"O Rybokhoziaistvennom Znachenii Sudaka v Severnykh Ozerakh" (The Importance for the Fish Industry of the Pike-Perch in Northern Lakes), by

L.A. Kuderskii, article, Rybnoe Khoziaistvo, vol. 5, 1960, pp. 15-17, printed in Russian. VNIRO Glavniproekta, pri Gosplanie SSSR, Moscow, U.S.S.R.

#### PLANKTON:

"Continuous Plankton Records Contributions Toward a Plankton Atlas of the North-Eastern Atlantic and the North Sea," by J.M. Colebrook, R.S. Glover, and G.A. Robinson, article, Bulletins of Marine Ecology, vol. 5, no. 42, 1961, pp. 65-111, illus., printed. Scottish Marine Biological Assoc., Oceanographic Laboratory, 7 Craighall Rd., Edinburg 6, Scotland.

"Measurements of Primary Production in Coastal Sea Water Using a Large-Volume Plastic Sphere," by C.D. McAllister and others, article, Limnology and Oceanography, vol. 6, no. 3, 1961, pp. 237-258, printed. Woods Hole Oceanographic Institution, Woods Hole, Mass.

"A Modification of the Small Hardy Plankton Sampler for Simultaneous High-Speed Plankton Hauls," by David Miller, article, Bulletins of Marine Ecology, vol. 5, no. 45, 1961, pp. 165-172. Scottish Marine Biological Assoc., Oceanographic Laboratory, 7 Craighall Rd., Edinburg 6, Scotland.

"The Multi-Depth Plankton Indicator," by R.S. Glover, article, Bulletins of Marine Ecology, vol. 5, no. 44, 1961, pp. 151-164, printed. Scottish Marine Biological Assoc., Oceanographic Laboratory, 7 Craighall Rd., Edinburg 6, Scotland.

#### POTOMAC RIVER:

Economic Base Survey of the Potomac River Service Area, 100 pp., illus., printed, 55 cents. Office of Business Economics, U.S. Department of Commerce, Washington, D.C., 1961. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.)

#### PURSE SEINING:

"Novyi sposob raboty koshel'kovym nevodom" (New Method of Purse Seining), by I.I. Kul'batskii, article, Rybnoe Khoziaistvo, vol. 36, no. 8, 1960, pp. 46-48, illus., printed in Russian. VNIRO Glavniproekta, Pri Gosplanie SSSR, Moscow, U.S.S.R.

#### QUALITY:

"Improvement in Keeping Quality of Fish: Effect of Temperature on Freshness," article, 1960 Annual Report, Torry Research Station, p. 6, printed. Torry Research Station, Aberdeen, Scotland, 1961.

"Improvement in Keeping Quality of Fish: Quality of Fish Reaching the Consumer," article, 1960 Annual Report, Torry Research Station, pp. 14-15, printed. Torry Research Station, Aberdeen, Scotland, 1961.

#### REFRIGERATED SEA WATER:

Storage and Transport of Fish in Refrigerated Sea Water, by S.W. Roach, J.S.M. Harrison, and H.L.A. Tarr, Bulletin No. 126, 68 pp., illus., printed, 75 cents. Fisheries Research Board of Canada, Ottawa, Canada, 1961. (Available from Queen's Printer and Controller of Stationery, Ottawa, Canada.) Describes the refrigerated sea-water method of holding chilled fish. Discusses the engineering aspects of freezing fish; the refrigeration theory; structural require-

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ments and materials used in tanks, condensers, evaporators, pumps, and piping; practical application of the method in different fisheries; physical and chemical changes in fish in ice water; bacteriological spoilage and its control. Also includes two illustrated appendices entitled "Experiments on the Storage of Canadian Atlantic Coast Cod in Refrigerated Sea Water," by W.A. MacCallum and M.S. Chan; and "Chilled Water for the Preservation of Freshwater Fish," by A. W. Lantz.

#### REFRIGERATION:

"Cooling and Pre-Storage of Sardines on Board Fishing Boats," by Y. LeBerre, article, *Science Peche*, no. 91, March 1961, pp. 1-5, printed in French, L'Institut Scientifique et Technique des Peches Maritimes, 59 Avenue Raymond-Poincare, Paris 16<sup>e</sup>, France.

Fish Room Insulation and Refrigeration--Some Experiences on a Modern Trawler, by J.J. Waterman, Torry Research Report No. 2, 2 pp., printed, Torry Research Station, Aberdeen, Scotland, 1961.

Holod na Sudah Rybnoj Promyslennosti (Refrigeration on Board Fishing Boats), by E.G. Pavlov, 2nd edition, 296 pp., illus., printed in Russian, 1 r. 06 k. (about US\$1.20). Piscepromizdat, Mruzooskii, Prospekt No. 1, Moscow, U.S.S.R., 1961.

"Refrigerated Brine Storage," article, *Modern Refrigeration*, vol. 64, no. 761, August 1961, p. 824, illus., printed, Refrigeration Press Ltd., Maclaren House, 131 Great Suffolk St., London SE1, England.

"Refrigeration in Fishing Vessels," by G.C. Eddie, article, *World Refrigeration and Air-Conditioning*, vol. 12, no. 9, September 1961, pp. 34-41, 44, printed, Technical Productions Ltd., 140 Cromwell Rd., London SW7, England.

#### CLIMON:

"Body-Scale Relationships in Landlocked Salmon, *Salmo salar*," by Kendall Warner and Keith Havey, article, *Transactions of the American Fisheries Society*, vol. 90, no. 4, 1961, pp. 457-461, printed, Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

"Gorbusha v Basseinakh Barentseva i Belogo Morei" (Pink Salmon, *Oncorhynchus gorbusha*, in the Barents of the Barents and White Seas), by E.G. Kossov, M.S. Lazarev, and L.V. Polikashin, article, *Rybnoe Khoziaistvo*, vol. 8, 1960, pp. 20-25, printed in Russian. VNIRO Glavniproekta, pri Gosplanie SSSR, Moscow, U.S.S.R.

"On the Growth Rate of Catchable Salmon in Offshore Waters," by Kisaburo Taguchi, article, *Bulletin of the Japanese Society of Japanese Fisheries*, vol. 27, no. 7, 1961, pp. 637-644, printed, Japanese Society of Scientific Fisheries, 6-Chome, Shiba-Kaigandori, Minato-Ku, Tokyo, Japan.

"The Hydrodynamical Performance of Migratory Salmon," by M.F.M. Osborne, article, *Journal of Experimental Biology*, vol. 38, no. 2, 1961, pp. 365-390, printed, Cambridge University Press, 200 Euston Rd., London NW1, England.

"Nutrition of Salmonoid Fishes. IX--Carbohydrate Requirements of Chinook Salmon," by Donald R. Buhler and John E. Halver, article, *Journal of Nutrition*, vol. 74, no. 3, pp. 307-318, printed, American Institute of Nutrition, 36th St. at Spruce, Philadelphia 4, Pa.

"Physiological Changes Occurring in the Blood of the Pacific Salmon (*Oncorhynchus tshawytscha*) Accompanying Sexual Maturation and Spawning," by O.H. Robertson, and others, article, *Endocrinology*, vol. 68, no. 5, 1961, pp. 733-746, printed, Endocrinology, Charles C. Thomas, 201-27 E. Lawrence Ave., Springfield, Ill.

"Salmon Investigations on the Whale River, Ungava, in 1960 and the Development of an Eskimo Fishery for Salmon in Ungava Bay," by G. Power, article, *Arctic*, vol. 14, no. 2, 1961, pp. 119-120, printed, Arctic Institute, 3485 University St., Montreal 2, Quebec, Canada.

"The Seasonal Change of Gonad Weight of Sockeye and Chum Salmon in the North Pacific Ocean, Especially with Reference to Mature and Immature Fish," by Kenji Takagi, article, *Bulletin of the Hokkaido Regional Fisheries Research Laboratory*, no. 23, 1961, pp. 17-34, printed, Hokkaido Regional Fisheries Research Laboratory, Yoichi, Hokkaido, Japan.

"Use of a Fishwheel in Salmon Research and Management," by William R. Meehan, article, *Transactions of the American Fisheries Society*, vol. 90, no. 4, 1961, pp. 490-494, printed, Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

"Vyrashchivanie Molodi Baltiiskogo Lososya" (Rearing the Young of the Baltic Salmon), by F.S. Ivlev, article, *Rybnoe Khoziaistvo*, vol. 2, 1960, pp. 12-16, printed, VNIRO Glavniproekta, pri Gosplanie SSSR, Moscow, U.S.S.R.

#### SANITATION:

Fish Sanitation, 25 pp., processed, Los Angeles City Health Department, Los Angeles, Calif., revised 1961.

#### SARDINES:

"As Conservas de Sardinha Marroquinas" (Moroccan Canned Sardines), article, *Conservas de Peixe*, vol. 17, no. 194, May 1962, pp. 23-24, printed in Portuguese, Sociedade Astoria, Lda., Requeirao dos Anjos, 68, Lisbon, Portugal.

"Dinamica de la pesqueria de sardina de Castellon, Datos de 1958" (Dynamics of Sardine Fisheries in Castellon--1958 Data), by M.G. Larraneta, J. Lopez and P. Suau, article, *Investigacion Pesquera*, vol. 16, 1960, pp. 113-137, illus., printed in Spanish with English summary, Investigacion Pesquera, University of Barcelona, Spain.

#### SEAWEED:

"Demyelination in Lambs from Ewes which Feed on Seaweeds," by H. Palsson and H. Grimsson, article, *Proceedings of the Society of Experimental Biology and Medicine*, vol. 83, 1953, pp. 518-520, illus., printed, Society for the Experimental Biology and Medicine, 104 Liberty St., Utica, N.Y.

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

## SHAD:

"Reduced Oxygen Tolerance and Toxicity of Petroleum Products to Juvenile American Shad," by Martin E. Tagatz, article, Chesapeake Science, vol. 2, nos. 1-2, 1961, pp. 65-71, printed. Department of Research and Education, Chesapeake Biological Laboratory, Solomons, Md.

## SHRIMP:

Maturation and Spawning of the Pink Shrimp, PENAEUS DUORARUM Burkenroad, by William C. Cummings, Contribution No. 328, 7 pp., illus., printed. (Reprinted from Transactions of the American Fisheries Society, vol. 90, no. 4, October 1961, pp. 462-468.) Institute of Marine Science, University of Miami, Miami, Fla.

"Microbial Analysis of Frozen Raw and Cooked Shrimp. I--General Results," by G.J. Silverman, and others, article, Food Technology, vol. 15, no. 11, November 1961, pp. 439-458, illus., printed. Institute of Food Technologists, The Garrard Press, 510 No. Hickory St., Champaign, Ill.

## SMELT:

"Food of the American Smelt in Saginaw Bay, Lake Huron," by William G. Gordon, article, Transactions of the American Fisheries Society, vol. 90, no. 4, 1961, pp. 439-443, illus., printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

"Osobennosti Dinamiki Chislennosti ryb s Korotkim Zhiznennym Tsiklom na Primere Snetka" (Characteristics of the Changes in the Numbers of Fish with a Short Life Cycle, with the Example of Smelt), by Yu E. Lapin, article, Zoologicheskii Zhurnal, vol. 39, no. 9, 1960, pp. 1371-1383, printed in Russian. Redaktsiia Zoologicheskogo Zhurnala, Podsosenskii per. d. 21, Moscow, B-64, U.S.S.R.

## SOUTH PACIFIC:

"SPC Fisheries Programme Re-Shaped," article, South Pacific Bulletin, vol. 12, no. 2, April 1962, pp. 18-19, 21, illus., printed. South Pacific Commission, Box 5254, G.P.O., Sydney, Australia. Discusses a fisheries technical meeting held in Noumea from February 5-13, 1962, to study and reshape the South Pacific Commission's program for developing fisheries in the region. Discusses progress made in the past ten years, ways of expanding shell resources, problems involved in the handling and processing of fish, and design and construction of fishing boats.

## SPAIN:

"Importancia de la Industria Reductora" (Importance of the Reduction Industry), by J.M. Casal Lopez-Valeiras, article, Boletin de Informacion, no. 41, February 1962, pp. 11-14, printed in Spanish. Sindicato Nacional de la Pesca, 18-20 Paseo del Prado, Madrid, Spain.

"Ley Sobre Renovacion y Proteccion de la Flota Pesquera" (Law on Renovation and Maintenance of the Fishing Fleet), article, Boletin de Informacion, no. 40, January 1962, pp. 2-5, printed in Spanish. Sindicato Nacional de la Pesca, 18-20, Paseo del Prado, Madrid, Spain.

## SPAWNING:

"The Enigma of Georges Bank Spawning," by John F. Colton, Jr. and Robert F. Temple, article, Limnology and Oceanography, vol. 6, no. 3, 1961, pp. 280-291, printed. Woods Hole Oceanographic Institution, Woods Hole, Mass.

"Nerestovye Skopleniya Promyslovykh Ryb v Raionakh Severnykh Kuril'skikh Ostrovov i Yuzhnoi Kamchatki" (Congregation for Spawning of Commercial Fish in the Region of the Northern Kurile Islands and Southern Kamchatka), by V.A. Mukhacheva, article, Trudy Instituta Okeanologii Akademii Nauk, SSSR, vol. 1, 1959, pp. 259-274, printed in Russian. Izdatel'stvo Akademii, Nauk SSSR, Moscow, U.S.S.R.

## SPINY LOBSTER:

"Une Etude Bresilienne sur les Resultats de la Pêche à la Langouste du Gotte et du Lonk-Ael" (A Brazilian Study on the Results of Spiny Lobster Fishing by the Gotte and the Lonk-Ael), article, La Peche Maritime, vol. 41, no. 1010, May 1962, pp. 302-305, illus., printed in French. La Peche Maritime, 190 Boulevard Haussmann, Paris, France.

## STRIPED BASS:

"Age, Growth, and Movements of the Striped Bass, *Roccus saxatilis*, Taken in Size Selective Fishing Gear in Maryland," by Romeo J. Mansueti, article, Chesapeake Science, vol. 2, nos. 1-2, 1961, pp. 9-36, printed. Department of Research and Education, Chesapeake Biological Laboratory, Solomons, Md.

"Contributions to the Study of Chesapeake Bay Striped Bass," by James E. Sykes, article, Chesapeake Science, vol. 2, nos. 1-2, 1961, pp. 1-2, printed. Department of Research and Education, Chesapeake Biological Laboratory, Solomons, Md.

## TAGGING:

"Detection of Incomplete Reporting of Tags," by Gerald J. Paulik, article, Journal of the Fisheries Research Board of Canada, vol. 18, no. 5, 1961, pp. 817-832, printed. Queen's Printer and Controller, Stationery, Ottawa, Canada.

## TEMPERATURE-DEPTH RECORDER:

"New Sea Temperature Measuring Devices," by P. Booker, article, Journal du Conseil, vol. 26, no. 2, 1961, pp. 133-147, printed. Conseil Permanent pour l'Exploration de la Mer, Charlottenlund Slot, Denmark.

## TIDE TABLES:

Tide Tables 1962--East Coast of North and South America (including Greenland), 283 pp., printed. U.S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D.C., 1961. Contains full daily tide predictions for 47 reference stations and differences for approximately 2,000 stations in North and South America. Contains also a table for obtaining the approximate height of the tide at any time, a table of local mean time of sunrise and sunset for every fifth day of the year for different latitudes, a table for the reduction of local mean time to standard time, a table of moonrise and moonset for 8 places, and a table of the Greenwich mean time of the moon's phases, apogee, perigee, greatest north and south declination, and the time of the solar equinoxes and solstices.

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

Ride Tables 1962--Europe and West Coast of Africa Including Mediterranean Sea, 209 pp., printed, \$1. U.S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D.C., 1961.

#### LAPIA:

The Food of *Tilapia nilotica* in Ponds of the Fish Culture Research Station at Dor, by A. Yashouv and J. Chervinski, article, Bamidgeh, vol. 13, no. 2, 1961, pp. 33-39, printed. Department of Fisheries and Fish Breeders' Association, Nir-David, D.N., Hakirya, Israel.

#### TOXICITY:

Acute Toxicity of Some Organic Insecticides to Three Species of Salmonids and to the Three-Spine Stickleback, by Max Katz, article, Transactions of the American Fisheries Society, vol. 90, no. 3, 1961, pp. 264-268, printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

The Effects of Pulp and Paper Mill Wastes on Aquatic Habitat Requirements, by W.M.V. Horn, article, Pulp and Paper Magazine of Canada, pp. 61, T. 67-T. 69, and T. 80, printed. Pulp and Paper Magazine of Canada, National Business Publications, Ltd., Gardenvale, Quebec, Canada, 1960.

A Note on the Toxicity of Insecticides to Aquatic Fauna, by A. Maher Ali, and others. Biological Abstracts, vol. 36, no. 21, 1961, abst. no. 70941, printed. University of Pennsylvania, 3815 Walnut St., Philadelphia 4, Pa.

The Toxicity of Certain Weed Killers to Trout, by J.S. Alabaster, article, Proceedings 3rd British Weed Control Conference, pp. 807-808, printed. British Weed Control Council, Cecil Chambers, 86 Strand, London WC2, England, 1956.

Toxicity of Weed Killers, Algicides and Fungicides to Trout, by J.S. Alabaster, article, Proceedings 4th British Weed Control Conference, 2 pp., printed. British Weed Control Council, Cecil Chambers, 86 Strand, London WC2, England, 1960.

#### TRADE LISTS:

The Bureau of International Business Operations, U.S. Department of Commerce has published the following mimeographed trade list. Copies may be obtained by firms in the United States from the Commercial Intelligence Division, Office of Trade Promotion, Bureau of Foreign Commerce, Washington 25, D.C., or from Department of Commerce field offices at \$1 each.

Canneries and Frozen Foods--Producers and Exporters--Australia, 10 pp., May 1962. Lists names and addresses, size of firms, and types of products (including fish and shellfish handled by each firm).

#### TRANSFER OF FISH AT SEA:

Preliminary Report on Experiments on the Transfer of Fish at Sea, by G. C. Eddie and J. J. Waterman, Torry Research Report No. 3, 5 pp., printed. Torry Research Station, Aberdeen, Scotland, 1961.

#### TRANSPORTING FISH:

Estestvennaja Ubyl Mjasa i Ryby pri Zeleznodoroznyh Perevozkah (The Loss of Weight of Meat and Fish in Railroad Transportation), by O.M. Visockaja, S. I.

Gakicko, and G.S. Konokotin, article, Kholodil'naia Tekhnika, no. 4, 1961, pp. 48-50, illus., printed in Russian. Four Continent Book Corp., 822 Broadway, New York 3, N.Y.

#### TRAWLERS:

"Forste Norskbydige hekktraler levert fra Aukra Bruk" (First Stern Trawler Built in Norway Delivered by Aukra Bruk), article, Skipsfart, vol. 34, no. 10, 1960, p. 265, illus., printed in Norwegian. Selvigs Forlag, 8 Raghugaten, Oslo, Norway.

"The 941-Ton Stern Trawler Munchen", article, Shipbuilding and Shipping Record, vol. 97, no. 18, 1961, pp. 571-572, illus., printed. Tothill Press Ltd., 33 Tothill Rd., Westminster, London SW1, England.

#### TRAWL NETS:

"O proektirovanii donnykn tralov dlia malykh i srednikh traulerov" (Designing Bottom-Trawl Nets for Small and Medium Trawlers), by N.N. Vinogradov, article, Rybnoe Khoziaistvo, vol. 36, no. 9, 1960, pp. 43-53, illus., printed in Russian. VNIRO Glavniproekta, pri Gosplanie SSSR, Moscow, U.S.S.R.

#### TUNA:

"Consideraciones sobre la Biologia del Atun, *Thunnus thynnus* (L.) de Barbate--Costa Sudatlantica de Espana" (Considerations on the Biology of *Thunnus thynnus* (L.) from Barbate--South Atlantic Coast of Spain), by Julio Rodriguez-Roda. Biological Abstracts, vol. 36, no. 22, abst. no. 78603, 1961, printed. University of Pennsylvania, 3815 Walnut St., Philadelphia 4, Pa.

"Diving Behavior of Hawaiian Skipjack Tuna", by Donald W. Strasburg, article, Journal du Conseil, vol. 26, no. 2, 1961, pp. 223-229, printed. Conseil Permanent International pour l'Exploration de la Mer, Charlottenlund Slot, Denmark.

"Sul Regime Alimentare di *Thunnus thynnus* (L.)" (The Alimentary System of the Tuna, *Thunnus thynnus* (L.)), by Sebastiano Genovese, article, Bollettino di Pesca, Piscicoltura e Idrobiologia, vol. 15, no. 2, January-December 1960, pp. 177-189, printed in Italian with English summary. Laboratorio Centrale di Idrobiologia, Piazza Borghese, 91, Rome, Italy.

"Seasonal Variation of Swimming Layer of Yellowfin Tuna by Area of Different Currents in Mid-Western and Southwestern Parts of the Pacific Ocean", by Jun Nakagome, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 27, no. 4, 1961, pp. 302-306, printed. Japanese Society of Scientific Fisheries, 6-Chome, Shiba-Kaigandori, Minato-Ku, Tokyo, Japan.

#### U.S.S.R.:

"Metod Otnositel'noi Otsenki Sostoyaniya Zapasa i Prognozirovaniya Ozhidaemogo Ulova ryb s Korotkim Zhiznennym Tsiklom" (A Method for Relative Evaluation of the Condition of the Stock and Prediction of the Expected Catch of Fish Having a Short Life Cycle), by Lyudiya Ivanov, article, Voprosy Ikhtiologii, vol. 14, 1960, pp. 160-165, printed in Russian. Voprosy Ikhtiologii, Akademiia Nauk, Moscow, U.S.S.R.

"Iz Opyta Raboty Nauchnykh Sovetov po Vazhneishim Problemam--O Deyatel' Nosti Ikhtologicheskoi"

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

Komissii" (The Practical Experience of the Scientific Councils in our Most Important Problems--On the Activities of the Ichthyological Commission), by E.N. Pavlovskii and G.V. Nikol'skii, article, Vestnik Akademii Nauk, SSSR, vol. 29, no. 7, 1959, pp. 39-42, printed in Russian. Vestnik Akademii Nauk, SSSR, Moscow, U.S.S.R.

"O Rybnom Khozyaistve Srednego i Verkhnego Amura v Svyazi s Namechaemym Gidrostroitel'stvom" (The Fish Industry of the Middle and Upper Amur in Relation to Hydro-Construction Plans), by G.V. Nikol'skii, B.V. Verigin, and O.N. Klyuchareva, article, Zoologicheskii Zhurnal, vol. 39, no. 3, 1960, pp. 407-416, printed. Redaktsiia Zoologicheskogo Zhurnala, Podsosenskii per. d. 21, Moscow, B-64, U.S.S.R.

"VNIRO--the All-Union Scientific Research Institute of Sea Fishery and Oceanography," by P.A. Moiseev, article, NLL Translations Bulletin, vol. 3, no. 2, pp. 94-108, printed. (Translated from the Russian Rybnoe Khoziaistvo, no. 7, 1960, pp. 8-14.) National Lending Library for Science and Technology, Boston SPA, Yorkshire, England.

#### VESSELS:

"Fishery Research Vessel Clione," article, Ship and Boat Builder, vol. 14, no. 5, 1961, pp. 40-42, illus., printed. John Trundell Ltd., St. Richards House, Eversholt St., London NW1, England.

Rules and Regulations for the Numbering of Undocumented Vessels and the Reporting of Boating Accidents, CG 267, 36 pp., printed. U.S. Coast Guard, Treasury Department, Washington 25, D.C., July 1, 1961. Contains the requirements for the identification of certain undocumented vessels required to be numbered by the U.S. Coast Guard. Also contains the rules and regulations prescribed under the Federal Boating Act of 1958 and the Act of April 25, 1940, as amended, which set forth requirements for boating accident reports, statistical information, and Coast Guard procedures.

Rules and Regulations for Uninspected Vessels, CG-258, 41 pp., printed. U.S. Coast Guard, Treasury Department, Washington 25, D.C., September 1, 1961. A pamphlet for owners and operators of motorboats and other vessels not otherwise required to be inspected under the navigation and vessel inspection laws.

#### VISION OF FISH:

"Cercetari Asupra Sensibilitatii Vizuale a Citorva Pesti din Marea Neagra" (Research on the Visual Sensitivity of Some Fish of the Black Sea), by Eugen A. Pora and others. Biological Abstracts, vol. 36, no. 19, 1961, abst. no. 62797, illus., printed. University of Pennsylvania, 3815 Walnut St., Philadelphia 4, Pa.

#### WATER POLLUTION:

"Determination of Sea-Water Pollution. III--A Standard of Pollution Caused by City Waste," by Hitoshi Morooka, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 27, no. 3, 1961, pp. 220-224, printed. Japanese Society of Scientific Fisheries, 6-Chome, Shiba-Kaigandori, Minato-Ku, Tokyo, Japan.

"Fertilizers and Insecticides as Causes of Damage to Waters," by E. Weber, article, Wasser und Abwasser, pp. 52-61, printed. Wasser und Abwasser (Bundesanstalt für Wasserbiologie und Abwasser-Forschung), Vienna, Austria, 1959.

"Investigations on the Effect of Sulphate Cellulose Waste Waters on the Life of Fish," by E. Marczek, and J. Zielinski, article, Przeglad Papierniczy, vol. 14, 1958, pp. 33-41, printed. Ekspozytura Czasopism Technicznych, Ulica Piotrkowska, 133, Lodz, Poland.

"Use of Electrophoretic Serum Separation in Fish Studies," by M. Fujiya, article, Journal of Water Pollution Control Federation, vol. 33, 1961, pp. 250-257, printed. Water Pollution Control Federation, Prince and Lemon Sts., Lancaster, Pa.

"The Use of the Sediment Bottle Collector for Monitoring Polluted Marine Waters," by Donald J. Reish, article, California Fish and Game, vol. 47, no. 3, 1961, pp. 261-272, printed. California Department of Fish and Game, 987 Jedsmith Dr., Sacramento 19, Calif.

#### WATER SAMPLER:

"An Easily-Assembled Water Sampler," by Troy C. Dorris and John L. Butler, article, Turtlex News, vol. 39, no. 4, 1961, pp. 108-109, printed. General Biological Supply House, Inc., 8200 S. Hoyne Ave., Chicago, Ill.

#### WEATHER CHARTS:

Coastal Warning Facilities Chart, Morgan City, Louisiana to Brownsville, Texas, 1962, 2 pp., processed, 10 cents, 1962. (For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.) Weather Bureau, U.S. Department of Commerce, Washington 25, D.C.

#### WHITEFISH:

"Food and Distribution of Lake Whitefish in Lac la Ronge, Saskatchewan," by S.U. Qadri, article, Transactions of the American Fisheries Society, vol. 90, no. 3, 1961, pp. 303-307, printed. Secretary, American Fisheries Society, P.O. Box 483, McLean, Va.

#### YELLOWPIKE:

"Recent Changes in the Walleye Fishery of Northern Green Bay and History of the 1943 Year Class," by Richard L. Pycha, article, Transactions of the American Fisheries Society, vol. 90, no. 4, 1961, pp. 475-488, printed. Secretary, American Fisheries Society, P. O. Box 483, McLean, Va.

#### YELLOWTAIL:

"Migratory Habitude of the Young Yellowtail Based on Tagging Experiments," by Shumpei Kojima, article, Bulletin of the Japanese Society of Scientific Fisheries, vol. 27, no. 4, 1961, pp. 291-295, printed. Japanese Society of Scientific Fisheries, 6-Chome, Shiba-Kaigandori, Minato-Ku, Tokyo, Japan.

#### ZOOPLANKTON:

"K Voprosu o Vertikal'nykh Gruppyrovkakh Morskogo Zooplanktona" (The Question of the Vertical Classification of Marine Zooplankton), by M.E. Vonogradov, article, Biological Abstracts, vol. 36, no. 19, 1961, abst. no. 62861, printed. University of Pennsylvania, 3815 Walnut St., Philadelphia 4, Pa.