



# RECENT FISHERY PUBLICATIONS

## 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 Factors 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 reports sport fishery research for the calendar year 1961. It 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 Research and Management 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
INL-7	Mexican Fisheries, 1961.
INL-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 clipper 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 activities. 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, 35 cents, 1961. A publication to aid sport fishery biologists, pond owners, and others who are having 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 themselves 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 devices.

"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 J. B. Cope, article, Progressive Fish-Culturist, vol. 23, no. 4, 1961, pp. 187-189, processed, 25 cents.



## MISCELLANEOUS PUBLICATIONS

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### 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. Wooldrige, 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 Seriya Biol., vol. 6, 1960, pp. 942-944, printed in Russian. Akademiia Nauk. SSSR. Seriya 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 Okeanologist 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.

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