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Fishery Publication Index 1955 - 64



UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES

Circular 296

Fishery Publication Index, 1955-64

**Publications of the Fish and Wildlife Service
by series, authors, and subjects**

Circular 296

Washington, D.C.
May 1969

The George Washington University, Washington, D.C., under contract to the Library of the U.S. Department of the Interior, compiled this index.

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INTRODUCTION

This index describes the publications of the Fish and Wildlife Service issued in 1955 and 1956 and those of the U.S. Fish and Wildlife Service issued in 1957-64.

The President's Reorganization Plan No. 3 established the Fish and Wildlife Service June 30, 1940, by consolidation of the Bureau of Fisheries and the Bureau of Biological Survey. The Fish and Wildlife Act of 1956 established the U.S. Fish and Wildlife Service, which comprises the Bureau of Commercial Fisheries and the Bureau of Sport Fisheries and Wildlife. The chief purposes of the U.S. Fish and Wildlife Service are to establish a sound and comprehensive national policy with respect to fish and wildlife and to strengthen the fish and wildlife segments of the national economy.

The index comprises a serial list of the numbers issued in each publication series (numbers that do not pertain to fisheries are omitted) and alphabetical indexes of authors and subjects. In the author index and in the subject index, the references are to numbers in the series lists.

This index does not list two Bureau of Commercial Fisheries periodicals--Commercial Fisheries Abstracts and Commercial Fisheries Review--and one Bureau of Sport Fisheries and Wildlife periodical--Sport Fishery Abstracts. These three periodicals have their own indexing systems.

Fish and Wildlife Price List 21 of the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, gives information on availability of sales items.

PUBLICATION SERIES DESCRIPTION

A description of the series of publications follows. The period covered by each series is shown, absence of a second year means the series is still active.

Circular (1941-)

Popular and semitechnical publications of general and regional interest intended to aid conservation and management. They are distributed free to libraries, research institutions both in this country and in foreign countries, Federal and State agencies, and scientists.

Current Fishery Statistics (1941-)

Current statistical information on fishery production, manufacture, and domestic or foreign trade; issued monthly, quarterly, or annually by States, regions or larger areas. The Current Fishery Statistical publications are sent to private and Government industries in the United States, foreign industries, and United States embassies.

Data Report (1964-)

Reports that include compilations of unanalyzed or partially analyzed data collected during biological, limnological, or oceanographic investigations. The reports are printed as 3- by 5-inch microfiches, each of which has up to 40 pages of material. The pages are reduced to one-eighteenth normal size; consequently, they can be read only through a microscope, microfiche "reader," or any similar device for enlarging. They are distributed free to a restricted mailing list of laboratories, libraries, State fishery agencies, research institutions, and research scientists. [Hard (full-size) copy is available from the Clearinghouse for Scientific and Technical Information, 5285 Port Royal Road, Springfield, Va. 22151 at \$3.00 per copy. Additional copies of microfiches are available from the same place at \$0.65 per set.]

Fishery and Oceanography Translations (1964-)

Subject-indexed lists of translations that are available to fishery scientists and oceanographers; translations that are in progress; translated tables of contents of important foreign and oceanographic journals; and abstracts of pertinent foreign scientific literature. Limited distribution is made to laboratories, libraries, State fishery agencies, research institutions, and research scientists.

Fishery Bulletin (1931-)

Technical reports on scientific investigations of fishery biology. The Bulletin of the United States Fish Commission was begun in 1881; it became the Bulletin of the Bureau of Fisheries in 1904 and the Fishery Bulletin of the Fish and Wildlife Service in 1941. Separates were

issued as documents through volume 46; the last document was No. 1103. Beginning with volume 47 in 1931 and continuing through volume 62 in 1963, each separate appeared as a numbered Bulletin. A new system began in 1963 with volume 63 in which papers are bound together in a single issue of the Bulletin instead of being issued only as individual papers. Bulletins are distributed free to libraries, research institutions, State agencies, and scientists. Some Bulletins are for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Fishery Industrial Research (1963-)

Technical reports dealing with scientific investigations of fishery technology, economics, exploratory fishing, and gear research. They are distributed free to libraries, fishing industry, scientists, and technologists.

Fishery Leaflet (1941-)

Popular information on fishery subjects intended primarily for use in correspondence. They are distributed free to Federal and State agencies and scientists, libraries, and U.S. and foreign research institutions.

North American Fauna (1889-)

This series, begun by the U.S. Department of Agriculture's Bureau of Biological Survey, comprises technical reports of fundamental scientific investigations of primary interest to naturalists and researchers, relating to the biology of mammals, birds, reptiles, and amphibians. These reports include monographs and reports of regional biological surveys; studies of distribution, migration, life history, and ecology; contributions to the theory and methodology of research and papers on the scientific basis of natural resource management. This series is distributed to depository libraries. The Fish and Wildlife Service distributes copies without charge to official agencies, libraries, and researchers in fields related to the Service's work. Additional copies may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Regulatory Announcement (1941-)

Informational pamphlets containing the text of current regulations. Only fishery Regulatory Announcements have been listed. Announcements and amendments to current regulations are issued throughout the year.

Research Report (1941-)

Technical papers reporting the results of scientific investigations with emphasis on

their practical application. Included are biological, technological, and economic subjects. These succeeded the Investigational Reports series (1931-39) and a former wildlife research series. They are for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, but are distributed free to libraries and a limited number of cooperators.

Separate (1942-)

Reprints of feature (authored) articles from the Bureau of Commercial Fisheries' monthly journal, "Commercial Fisheries Review." Available Separates may be obtained without charge from the Bureau of Commercial Fisheries, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

Special Scientific Report--Fisheries (1949-)

Preliminary or progress reports and reports on scientific investigations of restricted scope. Established as Special Scientific Reports in 1940, Nos. 1 to 67 were issued from that date to 1949, when the new series, Special Scientific Report--Fisheries, with new serial numbering, was started. They are distributed free to scientists, libraries, Federal and State agencies, and U.S. and foreign research institutions.

Statistical Digest (1942-)

Annual statistics with detailed tabulations relating to fishery production, manufacture, and commerce. These succeeded the Administrative Report series (1931-40). Digests are for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; some are distributed free to a limited mailing list.

Test Kitchen Series (1950-)

Information on buying, preparing, and cooking fish and shellfish, with tested recipes for institutions, home economists, and homemakers. This series is used to promote the use of fish and shellfish. They are distributed free by the Bureau of Commercial Fisheries.

The Progressive Fish-Culturist (1934-)

A periodical containing articles for fishery biologists and fish culturists. The periodical was issued monthly from 1934 through 1938 and bimonthly from 1939 through 1941; its publication was suspended from 1941 through

1946; it has been a quarterly since 1947. Many depository libraries receive it.

Publication Distribution

Some printed publications of the U.S. Fish and Wildlife Service are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. For such sales documents purchase orders should be sent direct to that Office (never to the U.S. Fish and Wildlife Service); remittances may be by money order, check, or cash.

Most publications that are issued by the U.S. Fish and Wildlife Service are distributed free to libraries that have been designated depository libraries for Government publications; a list of depository libraries may be obtained from the Superintendent of Documents, U.S. Government Printing Office.

REFERENCE SYMBOLS

The several series are abbreviated as follows:

- Circ - Circular
- CFS - Current Fishery Statistics
- DR - Data Report
- FOT - Fishery and Oceanography Translations
- FB - Fishery Bulletin
- FIR - Fishery Industrial Research
- FL - Fishery Leaflet
- NAF - North American Fauna
- RA - Regulatory Announcement
- RR - Research Report
- Sep - Separate
- SSR-F - Special Scientific Report--Fisheries
- SD - Statistical Digest
- TKS - Test Kitchen Series
- PFC - The Progressive Fish-Culturist

PUBLICATION SERIES NUMERICAL LIST

Publications preceded by asterisks are out of print, but can be borrowed from some college and public libraries.

The symbol (§) after a publication number indicates omission because it does not pertain to fisheries.

PUBLICATION SERIES

Circular

- Circ 30. §
- Circ 31. This is a trout hatchery, rearing and distributing trout to help maintain sport fishing. 1955. 8 pp., illus.
- *Circ 32. The seals, sea-lions, and sea otter of the Pacific Coast, by Karl W. Kenyon and Victor B. Scheffer. 1955. i + 34 pp., illus.
- Circ 33-34. §
- Circ 35. Raising bait fishes, by John Dobie, O. Lloyd Meehan, S. F. Snieszko, and George N. Washburn. 1956. iii + 123 pp., illus.
- Circ 36. Fishery publication index, 1920-54. Publications of the Bureau of Fisheries and fishery publications of the Fish and Wildlife Service, by series, authors, and subjects. 1955. x + 254 pp.
- Circ 37-39. §
- Circ 40. This is a pondfish hatchery: rearing and distributing warm-water fish to help maintain sport fishing. 1956. 8 pp., illus.
- Circ 41. Shrimp tips from New Orleans. 1956. 17 pp., illus.
- Circ 42. This is Cortland: fish-cultural station, experimental hatchery, trout-nutrition laboratory, in-service training school. 1956. 6 pp., illus.
- *Circ 43. Glossary of marine conservation terms in English and Russian, compiled by Paul S. Galtsoff. June 1956. i + 129 pp.
- Circ 44. National survey of fishing and hunting; a report on the first nationwide economic survey of sport fishing and hunting in the United States, during the calendar year 1955. 1956. ii + 50 pp., illus.
- Circ 45. Household consumer preferences for canned fishery products, 1956. 1957. ii + 46 pp., illus.
- *Circ 46. Survey of sport fishery projects, 1956, compiled in the Branch of Federal Aid. Jan. 1957. vi + 159 pp.
- Circ 47. §
- Circ 48. Commercial fishing vessels and gear, by Gustaf T. Sundstrom, illustrator. 1957. 48 pp., illus.
- Circ 49. Not issued.
- *Circ 50. Tips on cooking fish and shellfish, by Bureau of Commercial Fisheries in cooperation with United States fishing industry. 1958. 10 pp., illus.
- Circ 51-52. §
- *Circ 53. A market development plan for the New England groundfish industry, prepared by Tradeways, Incorporated, New York, N.Y. July 1958. iv + 22 pp.
- *Circ 54. Research facilities of the United States Fishery Laboratory, Beaufort, North Carolina, by Gerald B. Talbot. 1959. 11 pp., illus.
- *Circ 55. Conservation notes--fishing for food. 1959. 6 pp., illus.
- Circ 56. §
- *Circ 57. Progress in sport fishery research, 1957-58, compiled in the Branch of Fishery Research. Apr. 1959. 89 pp., illus. Contents: Appalachian sport fishery investigations, by Robert E. Lennon, pp. 3-8; Atlantic salmon investigations, by Alden P. Stickney, pp. 9-15; California-Nevada sport fishery investigations, by Reid S. Nielson, pp. 15-20; Rocky Mountain sport fishery investigations, by Oliver B. Cope, pp. 20-28; Eastern Fish Disease Laboratory, by S. F. Snieszko, pp. 28-37; Western Fish Disease Laboratory, by Robert R. Rucker, pp. 37-42; Eastern Fish Nutrition Laboratory, by A. M. Phillips, Jr., pp. 42-46; Western Fish Nutrition Laboratory, by John E. Halver, pp. 46-78; Salmon-Cultural Laboratory, by Roger E. Burrows, pp. 78-81.
- Circ 58. Public fish culture in the United States, 1958, a statistical summary, by William Hagen and Joseph P. O'Connor. 1959. iv + 44 pp., illus.

- *Circ 59. Alaska fisheries briefs, by Bureau of Commercial Fisheries. Sept. 1959. 20 pp., illus. Contents: Pink salmon migrations along the Alaska peninsula, by Fredrik V. Thorsteinson, pp. 1-7; Salmon migrations in southeastern Alaska, by Wallace H. Noerenberg, pp. 8-12; The unexpected appearance of pink salmon in the Kvichak River, by Clarence D. Becker, p. 13; Gravel removal and the fisheries, by Robert McVey, pp. 14-18; Estimating abundance of salmon fingerlings, by Howard S. Sears, pp. 19-20.
- Circ 60. Take a can of salmon, by Bureau of Commercial Fisheries. 1960. 17 pp., illus.
- Circ 61. §
- Circ 62. Galveston Biological Laboratory fishery research for the year ending June 30, 1959, by Bureau of Commercial Fisheries. Sept. 1959. iv + 127 pp., illus. Contents: Report of the Director, by George A. Rounsefell, pp. 1-5; Laboratory facilities, by Lawrence E. Wise, pp. 6-11; Shrimp fishery investigation, by Joseph H. Kutkuhn, p. 12; Migration and growth of pink shrimp, by Thomas J. Costello, Jr., and Donald M. Allen, pp. 13-18; Gulf shrimp abundance trends, by Joseph H. Kutkuhn, pp. 19-24; Distribution and density of larval shrimp, by Joseph H. Kutkuhn, pp. 25-27; Identification of juvenile penaeid shrimp, by Abraham Fleminger, pp. 28-31; Pink shrimp life history studies, by Edwin S. Iversen, pp. 32-33; Estuarine ecology investigation, by Edward Chin, p. 34; Migration of brown shrimp, by Anthony Inglis, pp. 35-37; Tolerance to insecticides, by Edward Chin, pp. 38-40; Nutritional studies of shrimp, by Zoula P. Zein-Eldin, pp. 41-44; Estuarine field studies, by Edward Chin, pp. 45-49; Predation on shrimp, by Anthony Inglis, pp. 50-53; Industrial fishery investigations, by Edgar L. Arnold, Jr., p. 54; Trawl-caught industrial fishes, by James P. Cating and Rupert E. Andrews, pp. 55-58; Menhaden, by Edgar L. Arnold, Jr., pp. 59-60; Menhaden populations, by J. Y. Christmas, Jr., pp. 61-65; Red tide investigation, by William B. Wilson, pp. 66-68; Physiological studies of red tide, by David V. Aldrich, pp. 69-71; Nutritional studies on red tide, by William B. Wilson, pp. 72-74; Screening chemicals for red tide control, by Kenneth T. Marvin, p. 75; Field ecology relating to red tide, by John H. Finucane, pp. 76-79; Environmental hydrology in relation to red tide, by Alexander Dragovich, pp. 80-85; Testing copper ore for red tide control, by Kenneth T. Marvin, pp. 86-94; Hydrological studies for the Corps of Engineers' proposed Mississippi River-Gulf Outlet Project, Louisiana, by Kenneth M. Rae, pp. 95-99; Evaluating toxicity of dissolved substances to micro-organisms using dialysis membranes, by William B. Wilson, pp. 100-102; The bait shrimp fishery of Galveston Bay, by Edward Chin, pp. 103-105; Plankton pigments in East Lagoon, by Zoula P. Zein-Eldin, pp. 106-107; Fixing and staining of dinoflagellates, by John H. Finucane, p. 108; Seasonal barnacle attachment in East Lagoon, by David V. Aldrich, pp. 109-110; The Gulf V plankton sampler, by Edgar L. Arnold, Jr., pp. 111-113; East Lagoon zooplankton, by Abraham Fleminger, pp. 114-118.
- Circ 63-64. §
- *Circ 65. Tuna industry conference papers, May 1959, selected papers of the Government-Industry Tuna Conference at Scripps Institution of Oceanography, University of California, La Jolla, Calif., May 19-21, 1959. Nov. 1959. iv + 110 pp., illus. Contents: Part 1 - The world tuna resource and fishery. The tuna resource in relation to oceanographic features, by Vernon E. Brock, pp. 1-11; Tuna fishing methods and their application, by Vernon E. Brock, pp. 12-16; World tuna production, by Donald R. Johnson, pp. 17-36; Status of the fishery for tunas of tropical waters of the eastern Pacific, by Milner B. Schaefer, pp. 37-40; Status of the fishery for tunas of the temperate waters of the eastern north Pacific (abstract), by Harold B. Clemens, pp. 41-42; Some observations on present and future Japanese tuna fisheries, by Wilvan G. Van Campen, pp. 43-46. Part 2 - The domestic tuna-fishing industry. Harvesting the tuna resource, by Gerald V. Howard, pp. 47-59; Handling and transporting to the cannery, Part A, by Clarence J. Carlson, pp. 60-62; Handling and transporting to the cannery, Part B, by Sven Lassen, pp. 63-66; Fisheries loan and mortgage programs, by Lester T. Bradbury, pp. 67-69; Publications of the Bureau of Commercial Fisheries of interest to the tuna industry, by Donald R. Johnson,

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- *Circ 65. Tuna industry conference papers (Continued)
pp. 70-71; Part 3 - Processing and marketing tuna. Sources of tuna consumed in the United States, by Victor J. Samson and Anthony D. Sokolich, pp. 73-75; The processing of tuna, by Maurice E. Stansby, pp. 76-85; Marketing tuna in the United States, by Donald Y. Aska, pp. 86-96; Marketing tuna in foreign countries, by Arthur M. Sandberg, pp. 97-107; Trade agreements and how they are made, by Arthur M. Sandberg, pp. 108-110.
- *Circ 66. Frozen processed fish and shellfish consumption in institutions and public eating places, survey methods and procedures, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. ii + 22 pp.
- *Circ 67. Frozen processed fish and shellfish consumption in institutions and public eating places, Atlanta, Georgia, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vii + 49 pp.
- *Circ 68. Frozen processed fish and shellfish consumption in institutions and public eating places, Chicago, Illinois, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vi + 58 pp.
- *Circ 69. Frozen processed fish and shellfish consumption in institutions and public eating places, Cleveland, Ohio, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vi + 46 pp.
- *Circ 70. Frozen processed fish and shellfish consumption in institutions and public eating places, Denver, Colorado, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vii + 48 pp.
- *Circ 71. Frozen processed fish and shellfish consumption in institutions and public eating places, Houston, Texas, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vii + 45 pp.
- *Circ 72. Frozen processed fish and shellfish consumption in institutions and public eating places, Los Angeles, California, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vi + 60 pp.
- *Circ 73. Frozen processed fish and shellfish consumption in institutions and public eating places, New York, New York, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vi + 55 pp.
- *Circ 74. Frozen processed fish and shellfish consumption in institutions and public eating places, Omaha, Nebraska, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vii + 46 pp.
- *Circ 75. Frozen processed fish and shellfish consumption in institutions and public eating places, Portland, Oregon, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vii + 47 pp.
- *Circ 76. Frozen processed fish and shellfish consumption in institutions and public eating places, Springfield, Massachusetts, prepared in the Division of Industrial Research and Services, Branch of Market Development, Bureau of Commercial Fisheries. Nov. 1959. vii + 44 pp.
- Circ 77-79. §
- Circ 80. Annual report of the Biological Laboratory, Woods Hole, Mass., for the year ending June 30, 1959. Jan. 1960. iii + 52 pp., illus. Contents: Report of the Laboratory Director, by Herbert W. Graham, pp. 1-8; Vessels and shore facilities, by V. A. Mackesy, pp. 9-12; Cod investigation, by J. P. Wise and H. E. Murray, pp. 13-15; Flounder investigations, by F. E. Lux, pp. 16-17; Haddock investigation, by J. R. Clark, A. C. Jensen, J. R. McDermott, F. A. Dreyer, and P. L. Sargent, pp. 18-20; Hake investigation, by R. L. Fritz and W. L. Callahan, p. 21; Industrial fishery investigation, by R. L. Edwards and L. M. Lawday, pp. 22-24; Redfish investigation, by G. F. Kelly

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Circ 80. Annual report of the Biological Laboratory (Continued)

and A. M. Barker, pp. 25-27; Sea scallop investigation, by J. A. Posgay, A. S. Merrill, F. E. Nichy, and P. H. Chase, pp. 28-31; Bottom ecology investigations, by R. L. Wigley and R. B. Theroux, pp. 32-34; Plankton ecology, by J. B. Colton, R. R. Marak, and D. Miller, pp. 35-37; Fish behavior investigation, by R. Livingstone, Jr., pp. 38-39; Population dynamics investigation, by C. C. Taylor and R. R. Stoddard, p. 40; Shellfish Laboratory, by P. S. Galtsoff and W. N. Shaw, pp. 41-42; Instrumentation, by J. M. Crossen, pp. 43-44; Port samplers school, by L. H. Couture, p. 45.

- *Circ 81. Progress in sport fishery research, 1959, compiled in the Branch of Fishery Research, 1960. ii + 80 pp., illus. Contents: Fish management research - Appalachian sport fishery investigations, by Phillip S. Parker, pp. 3-6; Atlantic salmon investigations, by Alden P. Stickney, pp. 6-17; California-Nevada sport fishery investigations, by Reed S. Nielson, pp. 18-22; Fish Control Laboratory, by Robert E. Lennon, pp. 23-26; Fish-Pesticide Research Laboratory, by Oliver B. Cope, pp. 27-33; Rocky Mountain sport fishery investigations, by Norman G. Benson, pp. 34-39. Fish disease research - Eastern Fish Disease Laboratory, by S. F. Snieszko, pp. 39-46; Western Fish Disease Laboratory, by Robert R. Rucker, pp. 47-51. Fish nutrition research-Eastern Fish Nutrition Laboratory, by Arthur M. Phillips, Jr., pp. 52-54; Western Fish Nutrition Laboratory, by John E. Halver, pp. 55-68. Research on fish cultural methods - Salmon-Cultural Laboratory, by Roger E. Burrows, pp. 68-73; Southeastern Fish Cultural Laboratory, by Kermit E. Sneed, p. 74.

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- *Circ 83. Honolulu Biological Laboratory, past (1949-1958), present (1959), future (1960-), by Bureau of Commercial Fisheries, Hawaii Area Office. Apr. 1960. ii + 62 pp., illus.

Circ 84. §

- *Circ 85. International North Pacific Fisheries Commission, United States section meeting, March 1960, papers pre-

ented before a joint session of the Alaska Legislature, Juneau, Alaska, Mar. 4, 1960, Bureau of Commercial Fisheries. May 1960. iv + 28 pp., illus. Contents: Statement of the United States section, International North Pacific Fisheries Commission, presented by Milton E. Brooding, pp. 3-10; Scientific research by the United States, by J. L. McHugh, pp. 11-12; Research related to the case for abstention, by R. A. Fredin, pp. 13-17; Distribution and racial composition of salmon on the high seas, by Clinton E. Atkinson, pp. 18-23; Pacific salmon in international waters, by Allan C. Hartt, presented by William F. Royce, pp. 24-28.

- Circ 86. A survey of fishing, in 1959, in 1,000 ponds stocked by the Bureau of Sport Fisheries and Wildlife, conducted by the Branches of Fish Hatcheries and Fishery Management Services, reported by Willis King. May 1960. iv + 20 pp., illus.

- *Circ 87. Program of research and development for the Pacific Coast tuna industry, Bureau of Commercial Fisheries. June 1960. ii + 7 pp.

- *Circ 88. Who buys canned tuna, and why? A study of consumer motivation in three cities, prepared in the Branch of Economics, Bureau of Commercial Fisheries. June 1960. vii + 60 pp., illus.

- Circ 89. Who buys canned salmon, and why? A study of consumer motivation in three cities, prepared in the Branch of Economics, Bureau of Commercial Fisheries. June 1960. vii + 46 pp., illus.

- *Circ 90. Who buys canned sardines, and why? A study of consumer motivation in three cities, prepared in the Branch of Economics, Bureau of Commercial Fisheries. June 1960. viii + 66 pp., illus.

- *Circ 91. Research in fishery technology, annual report--East Boston Laboratory, June 30, 1959, by S. R. Pottinger. July 1960. iii + 13 pp., illus.

- Circ 92. Galveston Biological Laboratory fishery research for the year ending June 30, 1960. By Galveston Biological Laboratory, Bureau of Commercial Fisheries. July 1960. ii + 77 pp., illus. Contents: Report of the Director, by George A. Rounsefell, pp. 1-5;

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Circ 92. Galveston Biological Laboratory fishery research for the year ending June 30, 1960 (Continued)

Shrimp fishery investigation, by Joseph H. Kutkuhn, p. 6; Experiments in rearing shrimp larvae, by Ray S. Wheeler, pp. 7-8; Abundance and distribution of penaeid shrimp larvae, by William C. Renfro, pp. 9-10; The Sanibel-Tortugas shrimp fishery, 1956-1959, by Joseph H. Kutkuhn, pp. 11-15; Migration of pink shrimp, by Thomas J. Costello and Donald M. Allen, pp. 16-19; Industrial fishery investigation, by Bernard E. Skud, p. 20; Trawl-caught industrial fishes, by Winthrop A. Haskell, pp. 21-25; Menhaden populations, by J. Y. Christmas, Jr., pp. 26-28; Estuarine ecology investigation, by Edward Chin, p. 29; Insecticide studies, by Edward Chin, pp. 30-33; Nutrition and respiration, by Zoula P. Zein-Eldin, pp. 34-35; Field studies, by Edward Chin and Anthony Inglis, pp. 36-38; Red tide investigation, by William B. Wilson, p. 39; Physiology of the Florida red tide organism, by David V. Aldrich, pp. 40-42; Chemical control experiments, by Kenneth T. Marvin, pp. 43-45; Field chemistry, by Billie Z. May, pp. 46-47; Hydrology of Tampa Bay and adjacent waters, by Alexander Dragovich, pp. 48-51; Field ecology relating to red tide, by John H. Finucane, pp. 52-54; Effects of engineering projects on estuaries, by Ronald C. Naab, pp. 55-57; Biological and hydrological studies for the Corps of Engineers, Mississippi River - Gulf Outlet Project, Louisiana, by Kenneth M. Rae, pp. 58-62; Gross comparison of first nauplii of three penaeid shrimps, by William C. Renfro, pp. 63-64; Copper in Tampa Bay and adjacent neritic and river waters, by Alexander Dragovich, p. 65; Brown shrimp movements, by Anthony Inglis, pp. 66-69; Identification and distribution of pink shrimp larvae, by C. P. Idyll, F. F. Koczy, Albert C. Jones, M. O. Rinkel, and Sheldon Dobkin, pp. 70-71.

Circ 93. The National Aquarium, by Bureau of Sport Fisheries and Wildlife. 1960. 6 pp., illus.

Circ 94. §

*Circ 95. A survey of conservation-education needs of the U.S. Fish and Wildlife Service. Summary of replies to questionnaires sent to field stations of the Service, compiled in the Office of Information. Sept. 1960. ii + 20 pp.

*Circ 96. Index of fishery technological publications of the Fish and Wildlife Service and the former Bureau of Fisheries, 1918-55, compiled by M. E. Stansby and Rosemary Schairer, Technological Laboratory, Seattle, Wash. 1961. ii + 237 pp.

Circ 97. The United States Fish and Wildlife Service, its responsibilities and functions, by Edna N. Sater. Dec. 1960. iv + 44 pp., illus.

*Circ 98. Fishway research at the Fisheries-Engineering Research Laboratory, by Gerald B. Collins and Carl H. Elling. Nov. 1960. ii + 17 pp., illus.

*Circ 99. Annual report, Biological Laboratory, Woods Hole, Massachusetts, for the year ending June 30, 1960. Dec. 1960. iii + 63 pp., illus. Contents: Report of the Laboratory Director, by Herbert W. Graham, pp. 1-11; Cod investigation, by J. P. Wise and H. E. Murray, pp. 12-13; Flounder investigation, by F. E. Lux and E. M. Levangie, pp. 14-15; Haddock investigation, by J. P. Wise, J. R. Clark, A. C. Jensen, J. P. McDermott, F. A. Dreyer, R. N. Hersey, and P. L. Sargent, pp. 16-18; Hake investigation, by R. L. Fritz and W. H. Callahan, pp. 19-21; Industrial fishery, by R. L. Edwards, R. R. Stoddard, and L. M. Lawday, pp. 22-24; Redfish investigation, by G. F. Kelly, A. M. Barker, and G. M. Clarke, pp. 25-28; Sea scallop investigation, by J. A. Posgay, A. S. Merrill, F. E. Nichyparowich, and H. W. Jensen, pp. 29-33; Aquarium and experimental studies, by C. L. Wheeler and D. Miller, pp. 34-37; Benthic ecology investigation, by R. L. Wigley and R. B. Theroux, pp. 38-41; Fish behavior investigation, by R. Livingstone, Jr., pp. 42-43; Plankton ecology investigations, by R. R. Marak and R. R. Stoddard, pp. 44-46; Instrumentation, by James R. Crossen, pp. 47-49; Port samplers pool, by L. H. Couture, pp. 50-51; Fish tagging, by S. L. Cogswell, pp. 52-53; Shellfish Laboratory, by P. S. Galtsoff and W. N. Shaw, pp. 54-57.

*Circ 100. Better hunting and fishing on small watershed projects, by Bureau of Sport Fisheries and Wildlife. 1961. 11 pp., illus.

*Circ 101. Progress in sport fishery research, 1960, compiled in the Branch of Fishery Research. 1961. iii + 96 pp.,

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*Circ 101. Progress in sport fishery research (Continued)

illus. Contents: Fish management research - Appalachian sport fishery investigations, by Robert E. Lennon, pp. 3-4; California-Nevada sport fishery investigations, by Reed S. Nielson, pp. 5-9; Fish Control Laboratory, by Robert E. Lennon, pp. 10-13; Fish-Pesticide Research Laboratory, by Oliver B. Cope, pp. 13-18; Rocky Mountain sport fishery investigations, by Norman G. Benson, pp. 19-23; Fish disease research - Eastern Fish Disease Laboratory, by S. F. Snieszko, pp. 23-31; Western Fish Disease Laboratory, by Robert R. Rucker, pp. 32-36; Fish nutrition research - Eastern Fish Nutrition Laboratory, by Arthur M. Phillips, Jr., pp. 36-38; Western Fish Nutrition Laboratory, by John E. Halver, pp. 39-63; Research on fish cultural methods - Fish Farming Experimental Station, by James H. Stevenson, pp. 63-68; Salmon Cultural Laboratory, by Roger E. Burrows, pp. 68-78; Southeastern Fish Cultural Laboratory, by Kermit E. Sneed, pp. 79-85; Marine game fish research center, by Lionel A. Walford, pp. 86-89.

*Circ 102. Operation Trident, a long-range program for the Bureau of Commercial Fisheries. Jan 1961. viii + 114 pp., illus.

*Circ 103. Annual report of Fisheries Loan Fund, fiscal year, 1957, by Office of Loans and Grants. 1961. 21 pp., illus.

Circ 104-105. §

*Circ 106. Annual report of Fisheries Loan Fund, fiscal year 1958, by Office of Loans and Grants. 1961. 7 pp., illus.

Circ 107. §

*Circ 108. The Pacific Region of the Bureau of Commercial Fisheries, by Thomas O. Duncan. May 1961. ii + 17 pp., illus.

Circ 109. Commercial fishing gear of the United States, by Wm. H. Dumont and G. T. Sundstrom. 1961. iv + 61 pp., illus.

Circ 110. The soft-shell clam industry of Maine, by Robert L. Dow and Dana E. Wallace. June 1961. vi + 36 pp., illus.

Circ 111. §

Circ 112. Parasites and diseases of warm-water fishes, by Bureau of Sport Fisheries and Wildlife, Fish Farming Experimental Station. 1961. 20 pp., illus.

*Circ 113. Annual report of Fisheries Loan Fund, fiscal year 1959, by Office of Loans and Grants. 1961. 14 pp., illus.

Circ 114. §

*Circ 115. Literature citations in publications of the Fish and Wildlife Service, by Faxon W. Cook. 1961. ii + 18 pp.

Circ 116. Illustrations in publications of the Fish and Wildlife Service, by Faxon W. Cook. 1961. ii + 21 pp., illus.

Circ 117-118. §

*Circ 119. Sharks, skates, rays, and chimaeras, by J. R. Thompson and Stewart Springer. 1961. iv + 19 pp., illus.

Circ 120. National survey of fishing and hunting. The second nationwide economic survey of sport fishing and hunting in the United States, by Bureau of Sport Fisheries and Wildlife. Sept. 1961. iv + 73 pp., illus.

Circ 121. The groundfish industries of New England and Canada. A comparative economic analysis, by Edward J. Lynch, Richard M. Doherty, and George P. Draheim. July 1961. vii + 187 pp., illus.

Circ 122. §

*Circ 123. Annual report of Fisheries Loan Fund, fiscal year 1960, by Office of Loans and Grants. Aug. 1961. 8 pp., illus.

*Circ 124. Research program of the Ichthyological Laboratory, by Daniel M. Cohen. July 1961. 8 pp.

Circ 125. Reservoirs for fish-rice farming, by Bureau of Sport Fisheries and Wildlife, Fish Farming Experimental Station. 1961. 11 pp., illus.

Circ 126. This is the Fish Farming Experimental Station, Stuttgart, Arkansas, by Bureau of Sport Fisheries and Wildlife. n.d. 7 pp., illus.

*Circ 127. Progress in 1960, by U.S. Bureau of Commercial Fisheries, Hawaii Area, Biological Laboratory, Honolulu, Hawaii. Nov. 1961. i + 31 pp., illus.

- *Circ 128. Improving sport fishing by control of aquatic weeds, by Eugene W. Surber. 1961. iv + 49 pp., illus.
- *Circ 129. Galveston Biological Laboratory fishery research for the year ending June 30, 1961. July 1961. iii + 82 pp., illus. Contents: Report of the Director, by George A. Rounsefell, pp. 1-6; Shrimp fishery program, by Joseph H. Kutkuhn, p. 9; Early life history of commercial and related shrimps, by William C. Renfro, pp. 10-13; Identification and description of shrimp larvae, by Harry L. Cook, pp. 14-16; Identification of postlarval and juvenile shrimp, by William C. Renfro, p. 17; Migrations, mortality, and growth of pink shrimp, by Thomas J. Costello and Donald M. Allen, pp. 18-21; The Campeche pink shrimp population, 1956-1960, by Joseph H. Kutkuhn, pp. 22-25; Industrial fishery program, by Joseph H. Kutkuhn, p. 26; Industrial bottom-fish fishery in the north central Gulf of Mexico, by Winthrop A. Haskell, pp. 27-30; Preliminary survey of industrial-type bottom fishes in the northwestern Gulf of Mexico, by James G. Ragan, pp. 31-32; Menhaden biology, by James Y. Christmas, Jr., p. 33; Estuarine program, by George A. Rounsefell, p. 34; Evaluation of estuarine data, by Joseph J. Graham, p. 35; Effects of engineering projects, by Richard A. Diener, pp. 36-37; Ecology of nursery areas, by Anthony Inglis, pp. 38-40; Trinity Bay project, by Anthony Inglis, pp. 41-42; Physiology and pesticide program, by Edward Chin, p. 43; Shrimp physiology, by Zoula P. Zein-Eldin, pp. 44-48; Effects of pesticides, by Edward Chin, pp. 49-55; Red tide program, by David V. Aldrich, pp. 56-57; Culture and nutrition of *Gymnodinium breve*, by David V. Aldrich, p. 58; Chemical control, by Kenneth T. Marvin and Raphael R. Proctor, Jr., pp. 59-60; Ecology of red tide, by John H. Finucane, pp. 61-64; Hydrology of Tampa Bay and adjacent waters, by Alexander Dragovich and Billie Z. May, pp. 65-67; Sea-water system, by Kenneth T. Marvin and Ray S. Wheeler, pp. 68-71; Oyster studies, by Sammy M. Ray and David V. Aldrich, pp. 72-74; Distribution of pink shrimp larvae and postlarvae, by C. P. Idyll, F. F. Koczy, Albert C. Jones, M. O. Rinkel, and D. Dimitriou, pp. 75-76.
- Circ 130. §
- Circ 131. Farm reservoir fishes, by Bureau of Sport Fisheries and Wildlife. 1962. 13 pp., illus.
- *Circ 132. Progress in sport fishery research, 1961. 1962. iv + 90 pp., illus. Contents: Pathology - Eastern Fish Disease Laboratory, by S. F. Snieszko, pp. 3-11, Western Fish Disease Laboratory, by Robert R. Rucker, pp. 12-16; Nutrition - Eastern Fish Nutrition Laboratory, by Arthur M. Phillips, Jr., p. 17; Western Fish Nutrition Laboratory, by John E. Halver, pp. 18-36; Husbandry Methods - Fish Farming Experimental Station, by James H. Stevenson, pp. 37-42; Salmon Cultural Laboratory, by Roger E. Burrows, pp. 43-48; Southeastern Fish Cultural Laboratory, by Kermit E. Sneed, pp. 49-51; Public Sport Fishery Investigations, Water Areas - California-Nevada sport fishery investigations, by Reed S. Nielson, pp. 52-56; Marine game fish research centers, Sandy Hook Marine Laboratory, by Lionel A. Walford, pp. 57-63; North Central Reservoir Investigations, by Norman G. Benson, pp. 64-65; Rocky Mountain sport fishery investigations, pp. 66-68; Environmental influences - Fish Control Laboratory, by Robert E. Lennon, pp. 69-73; Fish-Pesticide Research Laboratory, by Oliver B. Cope, pp. 74-80.
- Circ 133. Exempt trucking of fresh and frozen fish and shellfish in interstate commerce, by John D. Abrahamson and Carl P. Hoffman, Jr. Nov. 1961. iv + 55 pp., illus.
- Circ 134. Monthly mean charts, sea surface temperature, north Pacific Ocean, compiled by the Bureau of Commercial Fisheries, Biological Laboratory, Stanford, Calif. Apr. 1962. 36 pp., illus.
- *Circ 135. Programs and activities of the Bureau of Commercial Fisheries. Jan. 1962. 20 pp., illus.
- Circ 136. §
- *Circ 137. Annual report, Biological Laboratory, Woods Hole, Massachusetts, for the year ending June 30, 1961. Feb. 1, 1962. iv + 89 pp., illus. Contents: Report of the Laboratory Director, by Herbert W. Graham, pp. 1-13; Haddock program, by M. D. Grosslein, J. P. McDermott, and R. N. Hersey, pp. 14-19;

*Circ 137. Annual report, Biological Laboratory (Continued)

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Circ 138. §

*Circ 139. Annual report of the Technological Laboratory, Gloucester, Massachusetts, for the fiscal year ending June 30, 1961, by Joseph W. Slavin. Feb. 1962. iii + 11 pp., illus.

Circ 140. §

*Circ 141. Economic review of the Great Lakes commercial fisheries, 1940-59, by Keith D. Brouillard. 1963. iv + 20 pp., illus.

Circ 142. Not issued.

*Circ 143. Effects of pesticides on fish and wildlife: a review of investigations during 1960. 1962. v + 52 pp., illus. Contents: Effects on wildlife, by James B. DeWitt, D. Glen Crabtree, Robert B. Finley, and John L. George, pp. 4-15; Effects on sport fisheries, by Oliver B. Cope, pp. 16-19; Effects on commercial fisheries, by Philip A. Butler, pp. 20-24; Additional wildlife research needed, by Daniel L. Leedy, pp. 25-26; Additional sport fisheries research needed, by Oliver B. Cope, p. 27; Additional commercial fisheries research needed, by Philip A. Butler, p. 28.

Circ 144. Common parasites of fishes, by Glenn L. Hoffman and Carl J. Sindermann. 1962. ii + 17 pp., illus.

Circ 145. The story of the Bureau of Commercial Fisheries Biological Laboratory, Woods Hole, Massachusetts, by Paul S. Galtsoff. May 25, 1962. iii + 121 pp., illus.

Circ 146. §

Circ 147. Commercial fisheries: research and development in the Great Lakes and Central Region, a long-range program of the Bureau of Commercial Fisheries, by Region 4 staff, Bureau of Commercial Fisheries. 1963. iii + 38 pp., illus.

Circ 148. Annual report of the Bureau of Commercial Fisheries Biological Laboratory, Beaufort, N.C., for the fiscal year ending June 30, 1961. 1963. iii + 40 pp., illus. Contents: Report of the Director, by G. B. Talbot, pp. 1-3; Blue crab program, by Charles H. Walburg, p. 3; Newport River study, by Mayo H. Judy, pp. 3-4; St. Johns River study, by Marlin E. Tagatz, pp. 4-6; Population studies, by Kenneth J. Fischler, pp. 6-7; Natural history studies, by Charles H. Walburg, pp. 7-8; Larval studies, by John D. Costlow, pp. 8-9; Shad program, by Charles H. Walburg, p. 9; Status of the shad industry - 1960, by Paul R. Nichols, pp. 10-11; Dynamics of shad populations, by Charles H. Walburg, pp. 11-14; Fishway studies, by Paul R. Nichols, pp. 14-15; Menhaden program, by Fred C. June, p. 15; Population studies, by John W. Reintjes, Joseph R. Higham, and Doyle F. Sutherland, pp. 15-17; Estimation of juvenile abundance, by Anthony L. Pacheco, p. 17; Development of methods of marking juveniles, by Frank T. Carlson and John W. Reintjes, pp. 17-18; Sampling the catch, by Fred C. June, William R. Nicholson, and Charles M. Roithmayr, pp. 19-21; Atlantic Coast striped bass program, by James E. Sykes, p. 22; Chesapeake Bay cooperative study, by Robert B. Chapoton and Louis E. Vogeles, pp. 22-23; Prediction of harvestable striped bass in Albemarle Sound, N.C., by James E. Sykes and Robert M. Lewis, pp. 24-25; Roanoke River cooperative study, by Robert M. Lewis and Randall P. Cheek, pp. 25-26; Sexual maturity and fecundity

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- *Circ 149. Trident, a long-range report of the Bureau of Commercial Fisheries, by Bureau of Commercial Fisheries. Sept. 1963. x + 113 pp., illus.
- Circ 150. Safety manual for fishermen, captains, and owners of New England fishing vessels, adapted for the fishing industry, by John J. Murray. July 1962. iv + 65 pp., illus.
- Circ 151. Index of fishery biological papers by U.S. Fish and Wildlife Service authors appearing in nongovernment publications, 1940-56, by Lola T. Dees. 1963. ii + 138 pp.
- Circ 152. Recreational fishing in the national wildlife refuges, by Winston A. Elkins and Robert W. Sharp. Aug. 1962. ii + 36 pp., illus.
- *Circ 153. The 1960 salt-water angling survey, by John R. Clark. 1960. iv + 36 pp., illus.
- Circ 154. Bureau of Commercial Fisheries Biological Laboratory, Galveston, Texas, by George A. Rounsefell. Nov. 1963. 29 pp., illus.
- Circ 155. Organizing and operating fishery cooperatives in the United States, by Leslie D. McMullin. June 1963. iv + 57 pp.
- Circ 156. Producers' margins for food fish and shellfish, by David K. Sabock. Nov. 1962. iv + 30 pp., illus.
- Circ 157. 6 questions everybody asks at national fish hatcheries, by Bureau of Sport Fisheries and Wildlife. 1963. 8 pp., illus.
- Circ 158. A guide and key to the aquatic plants of the southeastern United States, by Don E. Eyles and J. Lynne Robertson, Jr., with illustrations by Garnet W. Jex. 1963. iv + 151 pp.
- Circ 159. Trout feeds and feeding, by Arthur M. Phillips, Jr., A. V. Tunison, and George C. Balzer. Oct. 1963. iv + 38 pp., illus.
- *Circ 160. Progress in sport fishery research, 1962, compiled in the Branch of Fishery Research, Division of Sport Fisheries, Bureau of Sport Fisheries and Wildlife. Mar. 1963. v + 118 pp., illus. Contents: Pathology - Eastern Fish Disease Laboratory, by S. F. Snieszko, pp. 1-15; Nutrition - Eastern Fish Nutrition Laboratory, by Arthur M. Phillips, Jr., pp. 16-21; Western Fish Nutrition Laboratory, by John E. Halver, pp. 22-55; Husbandry methods - California-Nevada sport fishery investigations, by Reed S. Nielson, pp. 56-62; Fish Farming Experimental Station, by James H. Stevenson, pp. 63-68; Salmon-Cultural Laboratory, by Roger E. Burrows, pp. 69-73; Southeastern Fish Cultural Laboratory, by Kermit E. Sneed, pp. 74-76; Pesticides - Fish-Pesticide Research Laboratory, by Oliver B. Cope, pp. 77-85; Control - Fish Control Laboratory, by Robert E. Lennon, pp. 86-93; Reservoirs - North central reservoir investigations, by Norman G. Benson, pp. 94-97; South central reservoir investigations, by Thomas O. Duncan, pp. 98-99; Marine - Sandy Hook Marine Laboratory, by L. A. Walford, pp. 100-109; Tiburon Marine Laboratory, by Gerald B. Talbot, pp. 110-112.
- *Circ 161. Biological Laboratory, Galveston, Tex., fishery research for the year ending June 30, 1962. 1963. iii + 101 pp., illus. Contents: Report of the Director, by George A. Rounsefell, pp. 1-9; Shrimp fishery program, by J. Bruce Kimsey, pp. 10-12; Spawning populations, by William C. Renfro and Harold A. Brusher, pp. 13-17; Larval distribution and abundance, by Robert F. Temple, pp. 18-22; Currents on the Continental Shelf of the northwestern Gulf of Mexico, by J. Bruce Kimsey and Robert F. Temple, pp. 23-27; Identification of

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Circ 162. The soft-shell clam, by Robert W. Hanks. Dec. 1963. 16 pp., illus.

*Circ 163. Progress in 1961-62, prepared by staff, Biological Laboratory, Honolulu, Hawaii, edited by Wilvan G. Van Campen. Feb. 1963. 35 pp., illus.

*Circ 164. A program of fishery research and services, North Atlantic Region, by Region 3, Bureau of Commercial Fisheries, Gloucester, Mass. May 1963. iii + 20 pp., illus.

*Circ 165. Skipjack-a world resource, prepared by staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford. May 1963. i + 28 pp., illus.

Circ 166. §

*Circ 167. Pesticide-wildlife studies: a review of Fish and Wildlife Service investigations during 1961 and 1962. June 1963. ix + 109 pp., illus. Contents: Introduction, by John L. George, pp. 1-10; Commercial fisheries investigations, by Philip A. Butler, pp. 11-25; Sport fishery investigations, by Oliver B. Cope, pp. 26-42; Wildlife studies, Denver Wildlife Research Center, by D. Glen Crabtree, pp. 43-73; Wildlife studies, Patuxent Wildlife Research Center, 1961-1962, by James B. DeWitt, William H. Stickel, and Paul F. Springer, pp. 74-96; Pesticide-wildlife studies by State, Provincial, or university personnel, and by the Cooperative Wildlife Research Units, by John L. George, pp. 97-100; Recommendations for minimizing dangers of pest control and pesticides to fish and wildlife, by John L. George, pp. 101-105.

Circ 168. A survey of Japanese research on shellfisheries and seaweeds, by John B. Glude. Jan. 1964. 20 pp., illus.

Circ 169. The northern fur seal, by Ralph C. Baker, Ford Wilke, and C. Howard Baltzo. Sept. 1963, iii + 19 pp., illus.

Circ 170. Monofilament gill net fishing for skipjack tuna in Hawaiian waters, 1961-62, by Richard S. Shomura. Oct. 1963. iii + 21 pp., illus.

*Circ 171. Program of research and services for Alaska's commercial fisheries, by Bureau of Commercial Fisheries, Region 5, Juneau, Alaska. Oct. 1963. iii + 20 pp., illus.

Circ 172. Sharks of the genus *Carcharhinus* associated with the tuna fishery in the eastern tropical Pacific Ocean, by Susumu Kato. June 1964. ii + 22 pp., illus.

- Circ 173. Report to the Bureau of Commercial Fisheries on the Branch of Economics, by James Crutchfield, Giulio Pontecorvo, Walter Williams, John H. Cumberland, and Francis T. Christy, Jr. Apr. 1963. iii + 12 pp.
- Circ 174. Atlas of eastern Pacific marine game fishing, by James L. Squire, Jr. June 1963. ii + 8 pp., illus.
- Circ 175. Improving the quality of whiting, by John A. Peters, Edward H. Cohen, and Enrico E. Aliberte. July 1964. 16 pp., illus.
- Circ 176. Inventory of oceanographic data for the western north Atlantic Ocean and the Gulf of Mexico (oceanographic station data, bathythermograph observations, and sea-surface temperature observations), by Franklin Stearns. Dec. 1963. iii + 39 pp., illus.
- Circ 177. §
- *Circ 178. Progress in sport fishery research, 1963, compiled in the Division of Fishery Research. Mar. 1964. vi + 180 pp., illus. Contents: Pathology - Eastern Fish Disease Laboratory, by S. F. Snieszko, pp. 1-14; Western Fish Disease Laboratory, by Robert R. Rucker, pp. 15-23; Nutrition - Eastern Fish Nutrition Laboratory, by Arthur M. Phillips, Jr., pp. 24-31; Western Fish Nutrition Laboratory, by John E. Halver, pp. 32-66; Husbandry methods - California-Nevada sport fishery investigations, by Reed S. Nielson, pp. 67-78; Fish Farming Experimental Station, by James H. Stevenson, pp. 79-100; Salmon-Cultural Laboratory, by Roger E. Burrows, pp. 101-110; Southeastern Fish Cultural Laboratory, by Kermit E. Sneed, pp. 111-118; Pesticides - Fish-Pesticide Research Laboratory, by Oliver B. Cope, pp. 119-129; Control - Fish Control Laboratories, by Robert E. Lennon, pp. 130-138; Reservoirs - national reservoir research program, by Robert M. Jenkins, pp. 139-141; North central reservoir investigations, by Norman G. Benson, pp. 142-148; South central reservoir investigations, by Thomas O. Duncan, pp. 149-155; Marine - Sandy Hook Marine Laboratory, by L. A. Walford, pp. 156-164; Tiburon Marine Laboratory, by Gerald B. Talbot, pp. 165-171.
- Circ 179. Anglers' guide to sharks of the northeastern United States, Maine to Chesapeake Bay, by John G. Casey. Apr. 1964. 32 pp., illus.
- *Circ 180. Annual report of the Bureau of Commercial Fisheries Technological Laboratory, Seattle, Washington, calendar year 1962, by Patricia S. Terao. Sept. 1964. i + 14 pp., illus.
- Circ 181. The commercial fisheries of the Gulf and South Atlantic Region and their needs, by Bureau of Commercial Fisheries, Region 2. Sept. 1964. iv + 37 pp., illus.
- *Circ 182. Annual report of the Bureau of Commercial Fisheries Technological Laboratory, Gloucester, Mass., for fiscal year ending June 30, 1962. Aug. 1964. ii + 18 pp., illus. Contents: Message from Laboratory Director, by Joseph W. Slavin, pp. 1-2; Research on the chemistry and biochemistry of fish, by Maynard A. Steinberg, pp. 2-4; Radiation-pasteurization research, by Maynard A. Steinberg, pp. 4-7; Preservation and processing research, by John A. Peters, pp. 8-11; Standards and specifications research, by Joseph H. Carver, pp. 12-13; Inspection and certification of fishery products, by Philip J. McKay, p. 14.
- *Circ 183. Biological Laboratory, Galveston, Tex., fishery research for the year ending June 30, 1963. 1964. iv + 106 pp., illus. Contents: Report of the Director, by Milton J. Lindner, pp. 1-7; Shrimp fishery program, by J. Bruce Kimsey, pp. 8-12; Population distribution and spawning, by William C. Renfro and Harold A. Brusher, pp. 13-15; Identification of shrimp larvae, by Harry L. Cook, pp. 16-17; Larval distribution and abundance, by Robert F. Temple, David L. Harrington, and Clarence C. Fischer, pp. 18-24; Currents on the Continental Shelf of the northwestern Gulf of Mexico, by J. Bruce Kimsey and Robert F. Temple, pp. 25-27; Abundance of postlarval and juvenile shrimp, by Kenneth N. Baxter and Carlton H. Furr, pp. 28-29; Pink shrimp life history, by Thomas J. Costello and Donald M. Allen, pp. 30-31; Brown and white shrimp mortality studies, by Edward F. Klima and Kenneth W. Osborn, pp. 32-34; Commercial catch sampling, by Ray S. Wheeler, Charles R. Frith, James M. Lyon, Thomas W. Turnipseed, Charles E. Knight, Joseph A. Benigno, Robert C. Benton, and J. Harold Hudson, p. 35;

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*Circ 184. Annual report of the Bureau of Commercial Fisheries Biological Laboratory, Beaufort, N.C., for the fiscal year ending June 30, 1962. Sept. 1964. iii + 40 pp., illus. Contents:

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Circ 185. Investigations in fish control. 1. Laboratories and methods for screening fish-control chemicals, by Robert E. Lennon and Charles R. Walker. June 1964. ii + 15 pp., illus.

- Circ 186. Investigations in fish control. 2. Preliminary observations on the toxicity of antimycin A to fish and other aquatic animals, by Charles R. Walker, Robert E. Lennon, and Bernard L. Berger. June 1964. ii + 18 pp., illus.
- Circ 187-188. §
- *Circ 189. Outdoor fish cookery, sunset sauces 'n' seafoods, by Bureau of Commercial Fisheries. 1964. 10 pp., illus.
- Circ 190. To keep fish fresh, by Bureau of Commercial Fisheries, Technological Laboratory, Gloucester, Mass. Aug. 1964. 14 pp., illus.
- Circ 191. Extent of acid mine pollution in the United States affecting fish and wildlife, by Edward C. Kinney. June 1964. iii + 27 pp., illus.
- Circ 192. Columbia River Fishery Program - 1963, prepared by Staff, Columbia Fisheries Program Office, Bureau of Commercial Fisheries. Nov. 1964. iii + 20 pp., illus.
- *Circ 193. Annual report, exploratory fishing and gear research, Bureau of Commercial Fisheries, Region 2, for fiscal year 1963 ending June 30, 1963. Dec. 1964. iii + 68 pp., illus. Contents: Part 1 - An historical glance and overall view of exploratory fishing and gear research in Region 2, by Harvey R. Bullis, Jr., and J. R. Thompson, pp. 1-10; Part 2 - Exploratory fishing and gear research programs and projects. FY 1963. Gulf of Mexico exploratory fishing and gear research program, Pascagoula, Miss., by Richard A. Waller, pp. 13-17; Bottomfish project, by James S. Carpenter, p. 17; Pelagic fish project, by Tomio Iwamoto, pp. 17-18; Faunal survey project, by J. R. Thompson, p. 18; Caribbean and tropical Atlantic exploratory fishing and gear research program, by J. R. Thompson, pp. 19-20; Offshore shrimp gear research photoinstrumentation, by Paul Kruse, pp. 20-22; South Atlantic exploratory fishing and gear research program, by Robert Cummins, Jr., pp. 22-33; Gear research and development program, by Fred Wathne, pp. 33-37; Gear development project, by Fred Wathne, p. 37; Shrimp trawl mechanics project, by Fred Wathne and John K. Holt, pp. 38-40; Gear construction project phase, by John K. Holt and David G. Witherspoon, pp. 41-42; Shrimp behavior project, by Charles M. Fuss, Jr., and L. H. Ogren, pp. 42-47; Instrumentation development project, by John K. Holt, pp. 47-50; A sea-sled to towing-vessel voice communication system, by John K. Holt, pp. 51-53; Design of a biological sampling trawl for a specific application, by Fred Wathne, pp. 54-56; BCF/AID spiny lobster exploratory fishing project Republic of Panama, by Johnny A. Butler, pp. 56-60.
- *Circ 194. Annual report for 1963, Division of Fishery Management Services, prepared by Edward C. Kinney. July 1964. v + 46 pp., illus.
- Circ 195. An electrofishing boat with a variable voltage pulsator for lake and reservoir studies, by F. Phillip Sharpe. Sept. 1964. iv + 6 pp., illus.
- Circ 196. Reservoir fishery research strategy and tactics, by Robert M. Jenkins. July 1964. iv + 12 pp., illus.
- Circ 197. §
- *Circ 198. Annual report of the Bureau of Commercial Fisheries Biological Laboratory, Beaufort, N.C., for the fiscal year ending June 30, 1963. Nov. 1964. iii + 26 pp., illus. Contents: Report of the Director, by F. C. June, pp. 1-3; Blue Crab Program - by George H. Rees, p. 3; North Carolina studies, by Mayo H. Judy, Donnie L. Dudley, and Peggy M. Keney, pp. 3-6; Florida studies, St. Johns River, by Marlin E. Tagatz and Grady P. Frymire, pp. 6-8; Larval studies, by John D. Costlow, Jr., pp. 8-10; Menhaden Program - by John W. Reintjes, p. 10; Sampling the catch, by William R. Nicholson and Joseph R. Higham, pp. 10-11; Morphology and population studies, by John W. Reintjes, p. 11; Estimation of juvenile abundance, by Anthony L. Pacheco, p. 12; Methods of marking and recovery, by Frank T. Carlson, pp. 12-13; Shad Program - by Paul R. Nichols, p. 13; Dynamics of shad populations, by Randall P. Cheek and Robert M. Lewis, pp. 13-15; Fishway studies, by Robert B. Chapoton and Louis E. Vogeles, pp. 16-21; Atlantic Coast Striped Bass Program - by Paul R. Nichols, p. 21, Albemarle Sound cooperative study, by Robert M. Lewis and Randall P. Cheek, pp. 21-22; Chesapeake Bay cooperative study, by Robert B. Chapoton and Randall P. Cheek, pp. 22-23; Life history studies, by Randall P. Cheek and Robert B. Chapoton, pp. 24-25.

- *Circ 199. Pesticide-wildlife studies, 1963. A review of Fish and Wildlife Service investigations during the calendar year. Aug. 1964. v + 130 pp., illus. Contents: Commercial fishery investigations, by Philip A. Butler, pp. 5-28; Sport fishery investigations, by Oliver B. Cope, pp. 29-43; Wildlife studies, Denver Wildlife Research Center, by D. Glen Crabtree, pp. 44-76; Wildlife studies, Patuxent Wildlife Research Center, by Lucille Stickel, pp. 77-115; Wildlife studies by the cooperative wildlife research units, by Lee E. Yeager, pp. 116-124.
- Circ 200. The Bureau of Commercial Fisheries Biological Laboratory, Oxford, Maryland: programs and perspectives. Oct. 1964. v + 47 pp., illus. Contents: A brief history of Federal shellfish investigations in Chesapeake Bay, by James B. Engle, pp. 1-7; The Bureau of Commercial Fisheries Biological Laboratory at Oxford, present and future, by Carl J. Sindermann, pp. 8-17; Environmental features of the laboratory site; the Tred Avon River, by Robert W. Hanks, pp. 18-23; Natural and artificial pond culture of oysters, by William N. Shaw, pp. 24-29; Studies of oyster microparasites, by Aaron Rosenfield, pp. 30-37; Progress in surf clam biological research, by Arthur S. Merrill and John R. Webster, pp. 38-47.
- Circ 202. Techniques for infrared survey of sea temperature, report of a workshop held at the U.S. Dept. of the Interior, Washington, D.C., April 27 and 28, 1964, John Clark, chairman, Bureau of Sport Fisheries and Wildlife, Sandy Hook Marine Laboratory, Highlands, New Jersey. Sponsored by the Geophysics Branch, Office of Naval Research in cooperation with the Committee for Scientific Exploration of the Atlantic Shelf. Nov. 1964. iii + 142 pp., illus.
- Current Fishery Statistics
- *CFS 1074. Rhode Island landings, July 1954. 3 pp., illus.
- *CFS 1075. Florida landings, Sept. 1954. 6 pp., illus.
- *CFS 1076. New York landings, Marine District, Oct. 1954. 4 pp., illus.
- *CFS 1077. Frozen fish report, Nov. 1954. 7 pp., illus.
- *CFS 1078. Maine landings, Oct. 1954. 3 pp., illus.
- *CFS 1079. Fish meal and oil, Nov. 1954. 1 p., illus.
- *CFS 1080. Florida landings, Oct. 1954. 5 pp., illus.
- *CFS 1081. Florida landings, Nov. 1954. 5 pp., illus.
- *CFS 1082. New Jersey landings, Oct. 1954. 1 p., illus.
- *CFS 1083. New York landings, Marine District, Nov. 1954. 3 pp., illus.
- *CFS 1084. Alabama landings, Oct. 1954. 1 p., illus.
- *CFS 1085. Frozen fish - 1954 annual summary, Apr. 1955. 13 pp., illus.
- *CFS 1086. New Jersey landings, Nov. 1954. 1 p., illus.
- *CFS 1087. Frozen fish report, Dec. 1954. 7 pp., illus.
- *CFS 1088. Rhode Island landings, Aug. 1954. 2 pp., illus.
- *CFS 1089. Maine landings, Nov. 1954. 3 pp., illus.
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- *CFS 1095. Texas landings, Nov. 1954. 2 pp., illus.
- *CFS 1096. Rhode Island landings, Sept. 1954. 2 pp., illus.
- *CFS 1097. Rhode Island landings, Oct. 1954. 2 pp., illus.
- *CFS 1098. Frozen fish report, Jan. 1955. 7 pp., illus.

- *CFS 1099. Maine landings, Dec. 1954. 3 pp., illus.
- *CFS 1100. New York landings, Marine District, Dec. 1954. 3 pp., illus.
- *CFS 1101. Fish meal and oil, Jan. 1955. 1 p., illus.
- *CFS 1102. Florida landings, Jan. 1955. 5 pp., illus.
- *CFS 1103. New Jersey landings, Jan. 1955. 1 p., illus.
- *CFS 1104. Alabama landings, Dec. 1954. 1 p., illus.
- *CFS 1105. Texas landings, Dec. 1954. 2 pp., illus.
- *CFS 1106. Massachusetts landings, Nov. 1954. 7 pp., illus.
- *CFS 1107. Massachusetts landings, Dec. 1954. 8 pp., illus.
- *CFS 1108. Maine landings - 1954, by counties, annual summary. 9 pp., illus.
- *CFS 1109. Texas landings, Jan. 1955. 2 pp., illus.
- *CFS 1110. Rhode Island landings, Nov. 1954. 3 pp., illus.
- *CFS 1111. Rhode Island landings, Dec. 1954. 3 pp., illus.
- *CFS 1112. New York landings, Marine District, Jan. 1955. 3 pp., illus.
- *CFS 1113. Rhode Island landings - 1954, by gear and month, annual summary. 6 pp., illus.
- *CFS 1114. Mississippi landings, Nov. 1954. 1 p., illus.
- *CFS 1115. Frozen fish report, Feb. 1955. 7 pp., illus.
- *CFS 1116. Maine landings, Jan. 1955. 3 pp., illus.
- *CFS 1117. Maine landings - 1954, by months, annual summary. 5 pp., illus.
- *CFS 1118. New York landings, Marine District, Feb. 1955. 4 pp., illus.
- *CFS 1119. New York landings, Marine District - 1954 annual summary. 7 pp., illus.
- *CFS 1120. Rhode Island landings, Jan. 1955. 2 pp., illus.
- *CFS 1121. Fish meal and oil, Feb. 1955. 1 p., illus.
- *CFS 1122. New Jersey landings, Feb. 1955. 1 p., illus.
- *CFS 1123. Texas landings, Feb. 1955. 2 pp., illus.
- *CFS 1124. Mississippi landings, Dec. 1954. 1 p., illus.
- *CFS 1125. Mississippi landings, Jan. 1955. 1 p., illus.
- *CFS 1126. Mississippi landings, Feb. 1955. 1 p., illus.
- *CFS 1127. Canned fish & byproducts - 1954, United States, Alaska, American Samoa, Hawaii, and Puerto Rico, annual summary. 19 pp., illus.
- *CFS 1128. Frozen fish report, Mar. 1955. 7 pp., illus.
- *CFS 1129. Packaged fish--1954 annual summary. 3 pp., illus.
- *CFS 1130. Rhode Island landings, Feb. 1955. 2 pp., illus.
- *CFS 1131. Maine landings, Feb. 1955. 4 pp., illus.
- *CFS 1132. Fish stick report, Jan.-Mar. 1955. 1 p., illus.
- *CFS 1133. Massachusetts landings, Jan. 1955. 3 pp., illus.
- *CFS 1134. Massachusetts landings - 1954, by ports, annual summary. 15 pp., illus.
- *CFS 1135. Florida landings, Feb. 1955. 5 pp., illus.
- *CFS 1136. Texas landings, Mar. 1955. 2 pp., illus.
- *CFS 1137. Lake fisheries - 1953 annual summary. 5 pp., illus.
- *CFS 1138. Alabama landings, Jan. 1955. 1 p., illus.
- *CFS 1139. Alabama landings, Feb. 1955. 1 p., illus.
- *CFS 1140. New York landings, Marine District, Mar. 1955. 4 pp., illus.

- *CFS 1141. Fish meal and oil, Mar. 1955.
3 pp., illus.
- *CFS 1142. Imports & exports of fishery products - 1950-1954 annual summaries.
9 pp., illus.
- *CFS 1143. Frozen fish report, Apr. 1955.
7 pp., illus.
- *CFS 1144. New Jersey landings, Mar. 1955.
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- *CFS 1145. Maine landings, Mar. 1955. 3 pp.,
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- *CFS 1146. Massachusetts landings - 1954,
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- *CFS 1147. Rhode Island landings, Mar. 1955.
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- *CFS 1148. Massachusetts landings, Feb. 1955.
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- *CFS 1149. Fish meal and oil, Apr. 1955.
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- *CFS 1151. Mississippi landings, Apr. 1955.
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- *CFS 1152. Alabama landings, Mar. 1955.
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- *CFS 1153. Chesapeake fisheries - 1953
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- *CFS 1154. New York landings, Marine Dis-
trict, Apr. 1955. 3 pp., illus.
- *CFS 1155. Frozen fish report, May 1955.
7 pp., illus.
- *CFS 1156. New Jersey landings, Apr. 1955.
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- *CFS 1157. Maine landings, Apr. 1955. 3 pp.,
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- *CFS 1158. Florida landings, Mar. 1955.
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- *CFS 1159. Massachusetts landings, Mar. 1955.
4 pp., illus.
- *CFS 1160. California landings, Jan. 1955.
3 pp., illus.
- *CFS 1161. Middle Atlantic fisheries - 1953
annual summary. 4 pp., illus.
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- *CFS 1163. Texas landings, Apr. 1955. 2 pp.,
illus.
- *CFS 1164. California landings, Feb. 1955.
3 pp., illus.
- *CFS 1165. Alaska fisheries - 1954 annual
summary. 5 pp., illus.
- *CFS 1166. New Jersey landings, May 1955.
1 p., illus.
- *CFS 1167. Massachusetts landings, Apr. 1955.
4 pp., illus.
- *CFS 1168. New York landings, Marine Dis-
trict, May 1955. 3 pp., illus.
- *CFS 1169. Frozen fish report, June 1955.
7 pp., illus.
- *CFS 1170. Florida landings - 1954 annual
summary. 9 pp., illus.
- *CFS 1171. California landings, Mar. 1955.
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- *CFS 1172. Fish meal and oil, May 1955.
1 p., illus.
- *CFS 1173. Fish meal and oil, June 1955.
1 p., illus.
- *CFS 1174. New England fisheries - 1953
annual summary. 6 pp., illus.
- *CFS 1175. Florida landings, Apr. 1955.
5 pp., illus.
- *CFS 1176. Rhode Island landings, May 1955.
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- *CFS 1177. Maine landings, May 1955. 3 pp.,
illus.
- *CFS 1178. Texas landings, May 1955. 2 pp.,
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- *CFS 1179. Fish stick report, Apr.-June
1955. 1 p., illus.
- *CFS 1180. Florida landings, May 1955.
5 pp., illus.
- *CFS 1181. Texas landings, June 1955.
2 pp., illus.
- *CFS 1182. Massachusetts landings, May 1955.
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- *CFS 1183. California landings, Apr. 1955.
3 pp., illus.

- *CFS 1184. New Jersey landings, June 1955. 1 p., illus.
- *CFS 1185. Frozen fish report, July 1955. 7 pp., illus.
- *CFS 1186. California landings, May 1955. 3 pp., illus.
- *CFS 1187. Rhode Island landings, June 1955. 2 pp., illus.
- *CFS 1188. Pacific Coast States fisheries - 1953 annual summary. 6 pp., illus.
- *CFS 1189. South Atlantic fisheries - 1953 annual summary. 9 pp., illus.
- *CFS 1190. Maine landings, June 1955. 3 pp., illus.
- *CFS 1191. Massachusetts landings, June 1955. 4 pp., illus.
- *CFS 1192. Gulf fisheries - 1953 annual summary. 9 pp., illus.
- *CFS 1193. North Carolina landings, June 1955. 1 p., illus.
- *CFS 1194. New York landings, Marine District, June 1955. 3 pp., illus.
- *CFS 1195. Mississippi landings, May 1955. 1 p., illus.
- *CFS 1196. Mississippi landings, June 1955. 1 p., illus.
- *CFS 1197. Florida landings, June 1955. 5 pp., illus.
- *CFS 1198. Massachusetts landings, July 1955. 4 pp., illus.
- *CFS 1199. Alabama landings, Apr. 1955. 1 p., illus.
- *CFS 1200. Alabama landings, May 1955. 1 p., illus.
- *CFS 1201. Alabama landings, June 1955. 1 p., illus.
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- *CFS 1203. Rhode Island landings, July 1955. 2 pp., illus.
- *CFS 1204. Fish meal and oil, July 1955. 1 p., illus.
- *CFS 1205. Frozen fish report, Aug. 1955. 7 pp., illus.
- *CFS 1206. North Carolina landings, July 1955. 1 p., illus.
- *CFS 1207. New Jersey landings, July 1955. 1 p., illus.
- *CFS 1208. New York landings, Marine District, July 1955. 3 pp., illus.
- *CFS 1209. Texas landings, Aug. 1955. 2 pp., illus.
- *CFS 1210. Maine landings, July 1955. 3 pp., illus.
- *CFS 1211. Fish meal and oil, Aug. 1955. 1 p., illus.
- *CFS 1212. Alabama landings, July 1955. 1 p., illus.
- *CFS 1213. Florida landings, July 1955. 5 pp., illus.
- *CFS 1214. New Jersey landings, Aug. 1955. 1 p., illus.
- *CFS 1215. New York landings, Marine District, Aug. 1955. 3 pp., illus.
- *CFS 1216. Frozen fish report, Sept. 1955. 7 pp., illus.
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- *CFS 1221. Rhode Island landings, Aug. 1955. 2 pp., illus.
- *CFS 1222. Maine landings, Aug. 1955. 3 pp., illus.
- *CFS 1223. Fish stick report, July-Sept. 1955. 1 p., illus.
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- *CFS 1225. Texas landings, Sept. 1955. 2 pp., illus.

- *CFS 1226. New York landings, Marine District, Sept. 1955. 4 pp., illus.
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- *CFS 1228. New Jersey landings, Sept. 1955. 1 p., illus.
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- *CFS 1232. Fish meal and oil, Sept. 1955. 1 p., illus.
- *CFS 1233. Alabama landings, Sept. 1955. 1 p., illus.
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- *CFS 1237. Mississippi landings, Sept. 1955. 1 p., illus.
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- *CFS 1244. North Carolina landings, Oct. 1955. 1 p., illus.
- *CFS 1245. New York landings, Marine District, Oct. 1955. 4 pp., illus.
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- *CFS 1247. Maine landings, Oct. 1955. 2 pp., illus.
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- *CFS 1270. New Jersey landings, Dec. 1955. 1 p., illus.
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- *CFS 1275. Maine landings, Dec. 1955. 3 pp., illus.
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- *CFS 1277. Mississippi landings, Dec. 1955. 1 p., illus.
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- *CFS 1279. New York landings, Marine District, Dec. 1955. 3 pp., illus.
- *CFS 1280. Alabama landings, Dec. 1955. 1 p., illus.
- *CFS 1281. New York landings, Marine District - 1955, by months, gear, and area, annual summary. 8 pp., illus.
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- *CFS 1284. Shrimp landings, Jan. 1956. 1 p., illus.
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2 pp., illus.
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1 p., illus.
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1961, by E. A. Power. Apr. 1962.
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illus.
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Translations of fishery and oceanography literature, authors A-F, compiled by Paul T. Macy. June 1964. pp. 8-37.

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Fishery Bulletin

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- *FB 142. Atlantic Coast migrations of American shad, by Gerald B. Talbot and James E. Sykes. 1958. iv + pp. 473-490, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 58.
- *FB 143. Effect of New Jersey-New York pound-net catches on shad runs of Hudson and Connecticut Rivers, by Paul R. Nichols. 1958. iv + pp. 491-500, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 58.
- *FB 144. Larval development, growth, and spawning of striped mullet (Mugil cephalus) along the south Atlantic Coast of the United States, by William W. Anderson. 1958. iv + pp. 501-519, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 58.
- FB 145. Morphology of the white shrimp, Penaeus setiferus (Linnaeus 1758), by Joseph H. Young. 1959. iv + pp. 1-168, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 146. Decline of the yellowtail flounder (Limanda ferruginea) off New England, by William F. Royce, Raymond J. Buller, and Ernest D. Premetz. 1959. iv + pp. 169-267, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 147. Some uses of statistical analysis in classifying races of American shad (Alosa sapidissima), by Donald R. Hill. 1959. iv + pp. 269-286, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 148. Sexual maturity and spawning of albacore in the Pacific Ocean, by Tamio Otsu and Richard N. Uchida. 1959. iv + pp. 287-305, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- *FB 149. Grayling of Grebe Lake, Yellowstone National Park, Wyoming, by Thomas E. Kruse. 1959. iv + pp. 307-351, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.

- *FB 150. Study of age determination by hard parts of albacore from central north Pacific and Hawaiian waters, by Tamio Otsu and Richard N. Uchida. 1959. iv + pp. 353-363, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- *FB 151. Fluctuations in the population of yellow perch, Perca flavescens (Mitchill), in Saginaw Bay, Lake Huron, by Salah El-Din El-Zarka. 1959. iv + pp. 365-415, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 152. Young jack crevalles (Caranx species) off the southeastern Atlantic Coast of the United States, by Frederick H. Berry. 1959. iv + pp. 417-535, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- *FB 153. Life history of the threespine stickleback, Gasterosteus aculeatus Linnaeus in Karluk Lake and Bare Lake, Kodiak Island, Alaska, by John Greenbank and Philip R. Nelson. 1959. iv + pp. 537-559, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 154. Life history of the sea lamprey of Cayuga Lake, New York, by Roland L. Wigley. 1959. iv + pp. 561-617, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 155. Early development and metamorphosis of the ten-pounder, Elops saurus Linnaeus, by Jack W. Gehringer. 1959. iv + pp. 619-647, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 59.
- FB 156. Age and growth of the redfish (Sebastes marinus) in the Gulf of Maine, by George F. Kelly and Robert S. Wolf. 1959. iv + pp. 1-31, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- *FB 157. The goldeye, Amphiodon alosoides (Rafinesque), in the commercial fishery of the Red Lakes, Minnesota, by Marvin D. Grosslein and Lloyd L. Smith, Jr. 1959. iv + pp. 33-41, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 158. Food of the squawfish Ptychocheilus oregonensis (Richardson) of the Lower Columbia River, by Richard B. Thompson. 1959. iv + pp. 43-58, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 159. Effects of fertilizing Bare Lake, Alaska, on growth and production of red salmon (O. nerka), by Philip R. Nelson. 1959. iv + pp. 59-86, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 160. Changes in tuna landings of the Hawaiian longline fishery, 1948-1956, by Richard S. Shomura. 1959. iv + pp. 87-106, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 161. Vertical distribution of pelagic fish eggs and larvae off California and Baja California, by Elbert H. Ahlstrom. 1959. iv + pp. 107-146, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 162. Variability of skipjack response to live bait, by Heeny S. H. Yuen. 1959. iv + pp. 147-160, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 163. Contributions of Hudson and Connecticut Rivers to New York-New Jersey shad catch of 1956, by Kenneth J. Fischler. 1959. iv + pp. 161-174, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 164. Food of the Pacific sardine (Sardinops caerulea), by Cadet H. Hand and Leo Berner, Jr. 1959. iv + pp. 175-184, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 165. Distribution and abundance of eggs of the Pacific sardine, 1952-1956, by Elbert H. Ahlstrom. 1959. iv + pp. 185-213, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 166. Relation between fish condition and population size in the sardine (Sardinops caerulea), by John S. MacGregor. 1959. iv + pp. 215-230, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 167. Estimates of larval tuna abundance in the central Pacific, by Donald W. Strasburg. 1960. iv + pp. 231-255, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 168. Oceanography of the east central equatorial Pacific as observed during Expedition Eastropic, by Thomas S. Austin. 1960. iv + pp. 257-282, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.

- *FB 169. Definition of haddock stocks of the northwestern Atlantic, by John R. Clark and Vadim D. Vladykov. 1960. iv + pp. 283-296, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 170. Annotated bibliography on biology of American menhaden, by John W. Reintjes, James Y. Christmas, Jr., and Richard A. Collins. 1960. iv + pp. 297-322. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 171. Determining age of Atlantic menhaden from their scales, by Fred C. June and Charles M. Roithmayr. 1960. iv + pp. 323-342, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- *FB 172. Seasonal abundance and vertical movements of planktonic Crustacea in Lake Michigan, by LaRue Wells. 1960. iv + pp. 343-369, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- *FB 173. Systematics and biology of the gizzard shad (Dorosoma cepedianum) and related fishes, by Robert Rush Miller. 1960. iv + pp. 371-392, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 174. Development of eggs and larvae of Pacific mackerel and distribution and abundance of larvae, 1952-56, by David Kramer. Drawings by George M. Mattson. 1960. iv + pp. 393-438, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- *FB 175. Synopsis of Strigeoidea (Trematoda) of fishes and their life cycles, by Glenn L. Hoffman. 1960. iv + pp. 439-469, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 176. Sonic tracking of adult salmon at Bonneville Dam, 1957, by James H. Johnson. 1960. iv + pp. 471-485, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 177. Abundance and life history of shad, St. Johns River, Florida, by Charles H. Walburg. 1960. iv + pp. 487-501, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 60.
- FB 178. Natural history of the sandbar shark (Eulamia milberti), by Stewart Springer. 1960. iv + pp. 1-38, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 179. Growth of bluefin tuna of the western North Atlantic, by Frank J. Mather, III, and Howard A. Schuck. 1960. iv + pp. 39-52, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 180. Fecundity of red salmon at Brooks and Karluk Lakes, Alaska, by Wilbur L. Hartman and Charles Y. Conkle. 1960. iv + pp. 53-60, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 181. Filefishes (Monacanthidae) of the western north Atlantic, by Frederick H. Berry and Louis E. Vogeles. 1961. iv + pp. 61-109, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- *FB 182. Embryological stages in the sea lamprey and effects of temperature on development, by George W. Piavis. 1961. iv + pp. 111-143, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 183. Blood properties of prespawning and postspawning anadromous alewives (Alosa pseudoharengus), by Carl J. Sindermann and Donald F. Mairs. 1961. iv + pp. 145-151, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 184. Effects of copper ore on the ecology of a lagoon, by Kenneth T. Marvin, Lawrence M. Lansford, and Ray S. Wheeler. 1961. iv + pp. 153-160, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 185. Validity of age determination from scales of marked American shad, by Mayo H. Judy. 1961. iv + pp. 161-170, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 186. Calanoid copepods from equatorial waters of the Pacific Ocean, by George D. Grice. 1961. iv + pp. 171-246, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 187. Abundance and distribution of eggs and larvae and survival of larvae of jack mackerel (Trachurus symmetricus), by David A. Farris. 1961. iv + pp. 247-279, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.

- FB 188. Distribution and abundance of skipjack in the Hawaii fishery, 1952-53, by Herbert H. Shippen. 1961. iv + pp. 281-300, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 189. Abundance and age of Kvichak River red salmon smolts, by Orra E. Kerns, Jr. 1961. iv + pp. 301-320, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 190. Early developmental stages of pink shrimp, Penaeus duorarum, from Florida waters, by Sheldon Dobkin. 1961. iv + pp. 321-349, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 191. Serological studies of Atlantic redfish, by Carl J. Sindermann. 1961. iv + pp. 351-354, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 192. Estimating red salmon escapements by sample counts from observation towers, by Clarence Dale Becker. 1962. iv + pp. 355-369, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 193. Atlas of the oceanographic climate of the Hawaiian Islands region, by Gunter R. Seckel. 1962. iv + pp. 371-427, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 194. Influence of early maturing females on reproductive potential of Columbia River blueback salmon (Oncorhynchus nerka), by Richard L. Major and Donovan R. Craddock. 1962. iv + pp. 429-437, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 195. Determining age of young haddock from their scales, by Albert C. Jensen and John P. Wise. 1962. iv + pp. 439-450, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 196. Development, distribution, and comparison of rudder fishes Kyphosus sectatrix (Linnaeus) and K. incisor (Cuvier) in the western north Atlantic, by Donald Moore. 1962. iv + pp. 451-480, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 197. Raft culture of oysters in Massachusetts, by William N. Shaw. 1962. iv + pp. 481-495, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 61.
- FB 198. Rearing tilapia for tuna bait, by Thomas S. Hida, Joseph R. Harada, and Joseph E. King. 1962. iv + pp. 1-20, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- *FB 199. Tank culture of tilapia, by Richard N. Uchida and Joseph E. King. 1962. iv + pp. 21-52, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 200. Growth of the adult male king crab Paralithodes camtschatica (Tilesius), by Douglas D. Weber and Takashi Miyahara. 1962. iv + pp. 53-75, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 201. Studies on Parorchis acanthus (Trematoda: Digenea) as a biological control for the southern oyster drill, Thais haemastoma, by Nelson R. Cooley. 1962. iv + pp. 77-91, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 202. Development of eggs and yolk-sac larvae of yellowfin menhaden, by John W. Reintjes. 1962. iv + pp. 93-102, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 203. Development and distribution of the short bigeye Pseudopriacanthus altus (Gill) in the western north Pacific, by David K. Caldwell. 1962. iv + pp. 103-150, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 204. Sexual maturity and spawning of the albacore in the central south Pacific Ocean, by Tamio Otsu and Richard J. Hansen. 1962. iv + pp. 151-161, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 205. Hydrological characteristics of Tampa Bay tributaries, by Alexander Dragovich and Billie Z. May. 1962. iv + pp. 163-176, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 206. Accumulation and retention of cesium¹³⁷ by marine fishes, by John P. Baptist and Thomas J. Price. 1962. iv + pp. 177-187, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- *FB 207. Pompanos (Trachinotus spp.) of south Atlantic Coast of the United States, by Hugh M. Fields. 1962. iv + pp. 189-222, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.

- FB 208. Effect of certain electrical parameters and water resistivities on mortality of fingerling silver salmon, by John R. Pugh. 1962. iv + pp. 223-234, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- *FB 209. Relationships among North American Salmonidae, by George A. Rounsefell. 1962. iv + pp. 235-270, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 210. Midwater trawling for forage organisms in the central Pacific, 1951-1956, by Joseph E. King and Robert T. B. Iversen. 1962. iv + pp. 271-321. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- *FB 211. Distribution of tunas in oceanic waters of the northwestern Atlantic, by James L. Squire, Jr. 1962. iv + pp. 323-341, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 212. Gulf of Mexico commercial shrimp populations--trends and characteristics, 1956-59, by Joseph H. Kutkuhn. 1962. iv + pp. 343-402, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 213. Development and distribution of larval and juvenile fishes of the family Mullidae of the western north Atlantic, by Melba C. Caldwell. 1962. v + pp. 403-457, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 214. Food of albacore tuna, Thunnus germon (Lacépède), in the central and northeastern Pacific, by Robert T. B. Iversen. 1962. iv + pp. 459-481, illus. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
- FB 215. Bibliography on the biology of the cod, Gadus morhua, and related species, by John P. Wise. 1963. iv + pp. 483-538. From Fishery Bulletin of the Fish and Wildlife Service, v. 62.
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*FL 423. Trout feeds and feeding, by A. V. Tunison. 1945. 23 pp.

FL 424. Household consumer preferences for breaded shrimp and breaded fish sticks. Part 1 - National and regional summary, by Richard A. Kahn and Walter H. Stolting. July 1955. 61 pp., illus.

FL 425. Household consumer preferences for breaded shrimp and breaded fish sticks. Part 2 - Summary by farm and nonfarm rural and city size groups, by Richard A. Kahn and Walter H. Stolting. Sept. 1955. 105 pp., illus.

FL 426. Household consumer preferences for breaded shrimp and breaded fish sticks. Part 3 - Summary by income groups, household size, homemaker age groups, and occupation, by Richard A. Kahn and Walter H. Stolting. Feb. 1956. 155 pp., illus.

FL 427. Refrigeration of fish. Part 1 - Cold storage design and refrigeration equipment, by Charles Butler, Joseph W. Slavin, Max Patashnik, and F. Bruce Sanford. June 1956. 146 pp., illus.

- FL 428. Refrigeration of fish. Part 2 - Handling fresh fish, by Charles Butler, John A. Dassow, C. J. Carlson, Joseph Carver, and Martin Heerd. Dec. 1956. 84 pp., illus.
- FL 429. Refrigeration of fish. Part 3 - Factors to be considered in the freezing and cold storage of fishery products, by Maurice E. Stansby, S. R. Pottinger, and David T. Miyauchi. Jan. 1956. i + 65 pp., illus.
- FL 430. Refrigeration of fish. Part 4 - Preparation, freezing, and cold storage of fish, shellfish, and precooked fishery products, by John A. Dassow, S. R. Pottinger, and John Holston. 1956. i + 124 pp., illus.
- FL 431. Refrigeration of fish. Part 5 - Distribution and marketing of frozen fishery products, by Joseph W. Slavin and Martin Heerd. Oct. 1956. i + 78 pp., illus.
- FL 432. Fishery statistical publications of the Bureau of Commercial Fisheries, by E. A. Power and Francis Riley. July 1960. iii + 29 pp., illus.
- FL 433. Not issued.
- *FL 434. Facts about red tide, by Branch of Fishery Biology. Mar. 1956. 6 pp., illus.
- *FL 435. Major commercial fisheries with data on research expenditures. A series of statistical tables, by Fish and Wildlife Service. May 1956. i + 20 pp., illus.
- FL 436. Commercial possibilities and limitations in frog raising, by Fish and Wildlife Service. Apr. 1956. 4 pp. Supersedes FL 102.
- FL 437. Assembly methods for otter-trawl nets, by Boris O. Knake. Dec. 1956. 29 pp., illus.
- *FL 438. Fishery motion pictures (list of), by Bureau of Commercial Fisheries. 1957. 16 pp., illus. Superseded by FL 452.
- FL 439. The Dungeness crab industry, by Fred W. Hipkins. May 1957. 12 pp., illus.
- FL 440. Marine fishery development in Liberia, 1952-54, by George C. Miller. Sept. 1957. 41 pp., illus.
- *FL 441. The lake trout (*Salvelinus namaycush*), by Paul H. Eschmeyer. Aug. 1957. 11 pp., illus.
- FL 442. Sea scallop boats and gear, by J. A. Posgay. Aug. 1957. 11 pp., illus. Supersedes FL 225.
- FL 443. Construction of a garden fish pool, prepared in the Bureau of Sport Fisheries and Wildlife. July 1957. 4 pp., illus. Supersedes FL 59.
- FL 444. Some publications on game-fish and sport fishing, compiled in Branch of Fish Hatcheries, Bureau of Sport Fisheries and Wildlife. July 1957. 10 pp. Supersedes FL 398.
- FL 445. Operation of north Atlantic type otter trawl gear, by Boris O. Knake. May 1958. ii + 15 pp., illus.
- FL 446. Pacific Coast shrimp recipes, by Thelma S. Rose, Helen H. Snyder, and Rose G. Kerr. Oct. 1957. 12 pp.
- FL 447. Planning your research paper, by F. Bruce Sanford, illustrated by Thomas O. Duncan. Apr. 1958. iv + 32 pp., illus.
- FL 448. Some publications on fish culture and related subjects, prepared in the Branch of Fish Hatcheries, Bureau of Sport Fisheries and Wildlife. Apr. 1958. 11 pp. Supersedes FL 6.
- FL 449. Organizations and officials concerned with the commercial fisheries, 1961, by Bureau of Commercial Fisheries. Feb. 1961. 16 pp., illus.
- FL 450. Not issued.
- *FL 451. The striped bass, by Edward C. Raney. May 1958. 6 pp. Supersedes FL 175.
- *FL 452. Fishery motion pictures (list of), by Bureau of Commercial Fisheries. 1960. 21 pp.
- FL 453. Infectious pancreatic necrosis of salmonid fishes (acute catarrhal enteritis), by S. F. Snieszko and Ken Wolf. July 1958. 3 pp.
- FL 454. Virus disease of sockeye salmon, by Ken Wolf. July 1958. 3 pp.
- FL 455. Blue-sac disease of fish (also known as dropsy, yolk sac disease and *Hydrocoele embryonalis*), by Ken Wolf. May 1963. 5 pp., illus.

- FL 456. White-spot disease of fish eggs and fry, by Ken Wolf. Aug. 1962. 3 pp.
- FL 457. Soft-egg disease of fishes, by Ken Wolf. July 1958. 2 pp.
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- *FL 465. Kidney disease of salmonid fishes (bacterial), by Ken Wolf. 1958. 4 pp.
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- FL 470. Double-rig shrimp trawling in the Gulf of Mexico, by Boris O. Knake, James F. Murdock, and James P. Cating. Sept. 1958. ii + 12 pp., illus.
- *FL 471. Edible crabs, by Charles H. Walburg. 1959. 4 pp., illus. Supersedes FL 71.
- FL 472. The shrimp and the shrimp industry of the southern United States, by William W. Anderson. July 1958. 9 pp., illus. Supersedes FL 319.
- *FL 473. A simple marine vivarium, by Philip A. Butler. Dec. 1958. 3 pp., illus.
- FL 474. Not issued.
- FL 475. Not issued.
- *FL 476_i. Canned fish retail prices, prepared in the Bureau of Commercial Fisheries, Branch of Market Development. June 1959. iv + 23 pp., illus.
- *FL 477. Fisheries loans for vessels, gear, and research, by Bureau of Commercial Fisheries, Office of Loans and Grants. Dec. 1958. ii + 7 pp.
- FL 478_k. Canned fish consumer purchases, September 1959, prepared in the Bureau of Commercial Fisheries, Branch of Market Development. 1959. 26 pp., illus.
- FL 478_l. Canned fish consumer purchases by family characteristics - October 1958-September 1959, prepared in the Bureau of Commercial Fisheries, Branch of Market Development. Dec. 1959. viii + 53 pp., illus.
- FL 479. Eels, by John P. Wise. Jan. 1959. 4 pp., illus. Supersedes FL 127.
- FL 480. The bait shrimp industry of the Gulf of Mexico, by Anthony Inglis and Edward Chin. Apr. 1959. 14 pp., illus. Supersedes FL 337.
- FL 481. The use of aquatic plants in the home aquarium, by Bureau of Sport Fisheries and Wildlife, Branch of Fish Hatcheries. May 1963. 4 pp.
- *FL 482. High-seas fisheries of the U.S.S.R., by Morton J. Garfield. Mar. 1959. ii + 18 pp., illus.
- *FL 483. Instructions for typing manuscripts to be printed at the Government Printing Office (with exceptions for manuscripts to be processed), by Bureau of Commercial Fisheries. Mar. 1959. 7 pp.
- FL 484. United States tuna fishery, 1911-1958, by E. A. Power. Apr. 1959. ii + 12 pp., illus.
- *FL 485. Japanese fisheries based in overseas areas, by Bureau of Commercial Fisheries, Branch of Special Reports. May 1959. iv + 26 pp., illus.

- FL 486. Recommended treatment for fish parasite diseases, by Glenn L. Hoffman. Apr. 1959. 4 pp.
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- FL 499. Federal fishing vessel mortgage and loan insurance, by the Bureau of Commercial Fisheries, Branch of Loans and Grants. July 1960. ii + 12 pp.
- FL 500. Not issued.
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- FL 502. Not issued.
- *FL 503. Fishing vessel construction differential subsidy, by the Bureau of Commercial Fisheries, Branch of Loans and Grants. Sept. 1960. 11 pp.
- FL 504. The American shad, by Gerald B. Talbot. Feb. 1961. 8 pp., illus. Supersedes FL 179.
- FL 505. Shipworms and other marine borers, by Michael Castagna. June 1961. i + 12 pp., illus.
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- FL 507. World production and trade in fish meal and oil, by J. Adger Smyth. Mar. 1961. 86 pp., illus.
- FL 508. Whirling disease of trout, by G. L. Hoffman. May 1962. 3 pp.
- *FL 509. A list of the Fishery Bulletins of the United States Fish and Wildlife Service, compiled by Lola T. Dees. Mar. 1961. 14 pp.
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- FL 512. United States Fish and Wildlife Service publications in limnology, 1940-1960, compiled by Lola T. Dees. Apr. 1961. 7 pp.
- FL 513. Rains of fishes, by Lola T. Dees. Apr. 1961. 5 pp.
- *FL 514. List of Special Scientific Reports (Nos. 1-67) and Special Scientific Report--Fisheries (Nos. 1-357), compiled by Lola T. Dees. Sept. 1961. 36 pp.
- *FL 515. United States Fish and Wildlife Service papers on physical and chemical oceanography, compiled by Lola T. Dees. Apr. 1961. 14 pp.
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- FL 517. Ambergris, by Lola T. Dees. May 1961. 7 pp., illus.

- *FL 518. A list of the Circulars of the United States Fish and Wildlife Service, compiled by Lola T. Dees. June 1961. 8 pp.
- *FL 519. List of Research Reports of the United States Fish and Wildlife Service, compiled by Lola T. Dees. June 1961. 4 pp.
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- FL 538. Silver hake, by Raymond L. Fritz. May 1962. i + 7 pp., illus.
- *FL 539. List of Circulars of the U.S. Fish and Wildlife Service, compiled by Lola T. Dees. May 1962. 10 pp.
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- *FL 542. Fisheries loans for vessels, gear, and research, by the Bureau of Commercial Fisheries, Branch of Loans and Grants. Aug. 1962. 8 pp.
- *FL 543. List of Special Scientific Reports and Special Scientific Report - Fisheries of the U.S. Fish and Wildlife Service, by Lola T. Dees. Aug. 1962. 37 pp.
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- FL 546. Glossary of terms used in fur seal research and management, by Standing Scientific Committee, North Pacific Fur Seal Commission. Feb. 1963. 9 pp.
- FL 547. Bibliography of publications of the Branch of Technology, author index-1961, by F. Bruce Sanford and Helen E. Plastino. Apr. 1963. 4 pp.

- FL 548. Living and working conditions on the Pribilof Islands, Alaska, by C. Howard Baltzo. Feb. 1963. 5 pp., illus.
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- FL 554. Spiced and pickled seafoods, by Norman D. Jarvis. Oct. 1963. i + 18 pp. Revision of RR 18.
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- FL 556. Saltonstall-Kennedy Act, as amended (an excerpt from Title 15 of the United States Code), by Bureau of Commercial Fisheries. Sept. 1963. 2 pp.
- FL 557. Fish and Wildlife Act of 1956, as amended (an excerpt from Title 16 of the United States Code), by Bureau of Commercial Fisheries. Sept. 1963. 9 pp.
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- FL 559. Instructions for typing manuscripts to be printed at the Government Printing Office (with exceptions for manuscripts to be processed), by Bureau of Commercial Fisheries. Sept. 1963. 8 pp. Supersedes FL 483.
- FL 560. Author index of publications, addresses, and translations-1962, Bureau of Commercial Fisheries, Branches of Economics and Technology, by F. Bruce Sanford, Kathryn L. Osterhaug, and Helen E. Plastino. Apr. 1964. 11 pp.
- FL 561. List of Fish and Wildlife Service papers on physical and chemical oceanography, 1940-62, by Lola T. Dees. Mar. 1964. 14 pp. Supersedes FL 515.
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- FL 564. Parasites of freshwater fish. I. Fungi. 1. Fungi (Saprolegnia and relatives) of fish and fish eggs, by Glenn L. Hoffman. Dec. 1963. 6 pp., illus.
- FL 565. Lymphocystis disease of fish, by Ken Wolf. Jan. 1964. 4 pp., illus.
- FL 566. Bacterial kidney disease of salmonid fishes, by Ken Wolf. Mar. 1964. 4 pp. Supersedes FL 465.
- FL 567. Caviar and other fish roe products, by Norman D. Jarvis. May 1964. 9 pp. Revision of RR 18.
- FL 568. Not issued.
- FL 569. The true pikes, by Ernest G. Karvelis. Sept. 1964. 11 pp., illus. Supersedes FL 496.
- FL 570. Basic list of publications in English on fish diseases and parasites, by S. F. Snieszko, Glenn L. Hoffman, and Ken Wolf. June 1964. 4 pp.
- FL 571. Parasites of freshwater fish. II. Protozoa. 1. Microsporidea of fish, by R. E. Putz. Aug. 1964. 4 pp., illus.
- FL 573. Graduate educational grants in aquatic sciences for the academic year 1965-66, by Bureau of Commercial Fisheries. Oct. 1964. 4 pp., illus.
- FL 574. Fishing vessel construction differential subsidy, by Bureau of Commercial Fisheries, Branch of Loans and Grants. Nov. 1964. i + 11 pp.
- FL 575. Parasites of freshwater fishes. IV. Miscellaneous. The anchor worm (Lernaea cyprinacea) and related species, by R. E. Putz and J. T. Bowen. Dec. 1964. 4 pp., illus.

North American Fauna

- NAF 61. Invertebrates and fishes collected in the Aleutians, 1936-38, by Victor B. Scheffer. 1959. pp.xi-xii, 365-406, illus.
- NAF 62-63. §
- NAF 64. Pelage and surface topography of the northern fur seal, by Victor B. Scheffer. 1961. vi + 206 pp., illus.

Regulatory Announcements

- RA 44. §
- *RA 45. Laws and regulations for protection of the commercial fisheries of Alaska, 1955. Jan. 1955. 59 pp.
- *RA 46. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1955-56. June 1955. 29 pp., illus.
- RA 47. §
- *RA 48. Laws and regulations for protection of the commercial fisheries of Alaska, 1956. Apr. 1956. 78 pp.
- *RA 49. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1956-57. June 1956. 29 pp., illus.
- RA 50. §
- *RA 51. Laws and regulations for protection of the commercial fisheries of Alaska, 1957. Apr. 1957. 81 pp.
- *RA 52. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1957-58. 1957. 18 pp., illus.
- RA 53. §
- *RA 54. Federal aid in fish restoration. May 1957. 17 pp. Supersedes RA 34.
- RA 55. §
- *RA 56. Laws and regulations for protection of the commercial fisheries of Alaska, 1958. Mar. 1958. 38 pp.
- *RA 57. Regulations relating to game and fur animals, bird, and game fishes in Alaska, 1958-59. 1958. 36 pp., illus.
- RA 58. §
- *RA 59. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1959-60. 1959. 18 pp., illus.

- *RA 60. Laws and regulations for protection of the commercial fisheries of Alaska, 1959. Mar. 1959. 33 pp.
- RA 61-64. §
- *RA 65. Federal aid in fish restoration. Mar. 1962. 22 pp. Supersedes RA 34 and RA 54.
- RA 66-73. §

Research Reports

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- RR 65. Revised bibliography on the cutthroat trout, by Oliver B. Cope. 1964. iv + 43 pp.
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- *RR 67. A device for stamina measurement of fingerling salmonids, by Allen E. Thomas, Roger E. Burrows, and Harry H. Chenoweth. 1964. 15 pp., illus.

Separate

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- *Sep 395. Freezing and cold storage of Pacific northwest fish and shellfish. Part 4 - Storage characteristics of four species of Salmonidae, by M. Heerdt and M. E. Stansby. pp. 13-17, illus. From Commercial Fisheries Review, Mar. 1955, v. 17, no. 3.
- *Sep 396. Determination of cook drip in Pacific ocean perch (Sebastes alutus) and Pacific oysters (Ostrea gigas) by use of a new method, by William N. Sumerwell. Technical Note No. 31 - Weight range, proximate composition, and thiaminase content of fish taken in shallow-water trawling in northern Gulf of Mexico, by Charles F. Lee, William Clegg, and Hugo W. Nilson. pp. 18-23. From Commercial Fisheries Review, Mar. 1955, v. 17, no. 3.
- *Sep 397. Use of underwater television in fishing-gear research (preliminary report), by Reidar F. Sand. pp. 1-5, illus. From Commercial Fisheries Review, Apr. 1955, v. 17, no. 4.
- *Sep 398. Bottom fish and shellfish explorations in the Prince William Sound area, Alaska, 1954, by E. A. Schaefer, K. A. Smith, and M. R. Greenwood. pp. 6-28, illus. From Commercial Fisheries Review, Apr. 1955, v. 17, no. 4.
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- *Sep 406. Freezing fish at sea--New England. Part 10 - Studies of miscellaneous handling problems, by Harris W. Magnusson. pp. 9-16, illus. From Commercial Fisheries Review, July 1955, v. 17, no. 7.
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- *Sep 411. Federal specifications for fishery products, by F. T. Piskur. Unidentified growth factors in fish byproducts, by William N. Sumerwell. pp. 9-14. From Commercial Fisheries Review, Aug. 1955, v. 17, no. 8.
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- *Sep 414. Freezing and cold storage of Pacific Northwest fish and shellfish. Part 5 - Palatability and cold-storage life of blacktip rockfish (Sebastes aleutianus) and flag rockfish (Sebastes rubrivinctus), by D. T. Miyauchi and D. L. Alverson. pp. 17-18. From Commercial Fisheries Review, Sept. 1955, v. 17, no. 9.
- *Sep 415. Some factors affecting sawdust losses in cutting fish sticks, by F. J. Cocca. p. 41. From Commercial Fisheries Review, Sept. 1955, v. 17, no. 9.
- *Sep 416. Preliminary report on exploratory long-line fishing for tuna in the Gulf of Mexico and the Caribbean Sea. Part 1 - Exploratory fishing by the Oregon, by Harvey R. Bullis, Jr. Part 2 - Long-line gear used in yellowfin tuna exploration, by Francis J. Captiva. pp. 1-20, illus. From Commercial Fisheries Review, Oct. 1955, v. 17, no. 10.
- *Sep 417. Brine dipping of haddock fillets, by J. Holston and S. R. Pottinger. pp. 21-30, illus. From Commercial Fisheries Review, Oct. 1955, v. 17, no. 10.
- *Sep 418. Technological research on the freshwater fisheries of the U.S., by M. E. Stansby. Iron-sulfide discoloration of tuna cans: No. 1. Theory of iron-sulfide formation in cans, by George Pigott and M. E. Stansby. pp. 31-39. From Commercial Fisheries Review, Oct. 1955, v. 17, no. 10.
- *Sep 419. Bone detection in fish by X-ray examination, by Anthony J. Frascatore, Jr., and J. A. Holston. pp. 1-11, illus. From Commercial Fisheries Review, Nov. 1955, v. 17, no. 11.
- *Sep 420. How to cook frozen fish without prethawing. Part 1 - Determination of optimum internal temperature for baked frozen halibut steaks, by Kathryn L. Osterhaug and Marian M. MacFarlane. pp. 12-14. From Commercial Fisheries Review, Nov. 1955, v. 17, no. 11.
- *Sep 421. Effect of cooking oil quality and storage conditions on the keeping quality of frozen fried fish sticks, by John A. Holston. Commercial-scale freezing-fish-at-sea trip made by Delaware, by J. W. Slavin. Feeding studies with menhaden press cake, by Hugo W. Nilson and Donald G. Snyder. Cold-storage life of freshwater fish--No. 2, by Kathryn L. Osterhaug and David T. Miyauchi. pp. 15-21. From Commercial Fisheries Review, Nov. 1955, v. 17, no. 11.
- *Sep 422. Construction details of improved tuna long-line gear used by Pacific Oceanic Fishery Investigations, by Herbert J. Mann. pp. 1-10, illus. From Commercial Fisheries Review, Dec. 1955, v. 17, no. 12.
- *Sep 423. Cold storage of frozen Pacific oysters (Crassostrea gigas) - No. 1, by Kathryn L. Osterhaug and Murray Andrews. Oil research project at the Seattle Technological Laboratory, by William N. Sumerwell. pp. 11-17. From Commercial Fisheries Review, Dec. 1955, v. 17, no. 12.
- *Sep 424. Reduction of curd in canned salmon prepared from frozen fish. Part 2 - Effect of pH and salt content, by Harry L. Seagran. pp. 1-4, illus. From Commercial Fisheries Review, Jan. 1956, v. 18, no. 1.
- Sep 425. Utilization of sea lions in Alaska, by John A. Dassow. pp. 5-9, illus. From Commercial Fisheries Review, Jan. 1956, v. 18, no. 1.
- *Sep 426. Some factors affecting fluid loss in southern oysters, by Milton Fingerman and Laurence D. Fairbanks. pp. 10-11, illus. From Commercial Fisheries Review, Jan. 1956, v. 18, no. 1.
- *Sep 427. Manufacture of experimental menhaden fish meal on a pilot-plant scale, by Maurice Bender. pp. 12-13. From Commercial Fisheries Review, Jan. 1956, v. 18, no. 1.
- *Sep 428. Fish and Wildlife Service aids fishing industry in promoting fishery products in Columbus, Ohio, by Robert P. Seifert. pp. 1-4. From Commercial Fisheries Review, Feb. 1956, v. 18, no. 2.

- *Sep 429. Iron sulfide discoloration of tuna cans. No. 2 - Analytical methods, by George M. Pigott and M. E. Stansby. pp. 5-9, illus. From Commercial Fisheries Review, Feb. 1956, v. 18, no. 2.
- *Sep 430. Oxidative deterioration in fish and fishery products--No. 1, by W. Brown, A. J. Tappel, and M. E. Stansby. Composition of fresh-water fish--No. 1, by Neva Karrick, William Clegg, and Maurice E. Stansby. pp. 10-17, illus. From Commercial Fisheries Review, Feb. 1956, v. 18, no. 2.
- *Sep 431. Florida fish marketing study--progress report, by Barton Westerlund. pp. 1-5. From Commercial Fisheries Review, Mar. 1956, v. 18, no. 3.
- *Sep 432. Michigan locker-plant survey, by William I. Cabaniss. pp. 6-8. From Commercial Fisheries Review, Mar. 1956, v. 18, no. 3.
- *Sep 433. Fish oils in sprays for citrus trees. Mid-winter status of southern oyster research. Utilization of sea lions studied. Interim Federal specification for canned crab meat. pp. 9-11. From Commercial Fisheries Review, Mar. 1956, v. 18, no. 3.
- *Sep 434. Condition of the middle Atlantic pound-net fishery, by Fred C. June. pp. 1-5, illus. From Commercial Fisheries Review, Apr. 1956, v. 18, no. 4.
- *Sep 435. School lunch fish-cookery demonstrations in Oklahoma, by Robert P. Seifert. pp. 6-8. From Commercial Fisheries Review, Apr. 1956, v. 18, no. 4.
- *Sep 436. Insurance of fishing vessels: some current problems, by Jerome Sachs. pp. 1-8, illus. From Commercial Fisheries Review, May 1956, v. 18, no. 5.
- *Sep 437. Research in Service laboratories. pp. 16-19. From Commercial Fisheries Review, May 1956, v. 18, no. 5.
- Sep 438. Technological studies on the processing of sea lions, by Robert M. Kyte. pp. 1-7, illus. From Commercial Fisheries Review, June 1956, v. 18, no. 6.
- *Sep 439. Iron sulfide discoloration of tuna cans. No. 3 - Effect of variables introduced by the fish, by George M. Pigott and M. E. Stansby. pp. 8-12, illus. From Commercial Fisheries Review, June 1956, v. 18, no. 6.
- *Sep 440. Technical Note No. 33 - Reduction of dehydration in frozen fish-fillet blocks, by J. A. Holston. pp. 14-15. From Commercial Fisheries Review, June 1956, v. 18, no. 6.
- Sep 441. Composition of southern oysters, by Charles F. Lee and Leonard Pepper. pp. 1-6, illus. From Commercial Fisheries Review, July 1956, v. 18, no. 7.
- *Sep 442. Exploratory fishing vessel George M. Bowers. Part 1 - Description of vessel, by Reidar F. Sand. Part 2 - Vessel's electrical and auxiliary-drive systems, by Richard L. McNeely. pp. 7-14, illus. From Commercial Fisheries Review, July 1956, v. 18, no. 7.
- *Sep 443. Storage tests on frozen fried fish sticks prepared from Pacific cod, by Max Patashnik and John A. Dassow. Effect of raw material on tuna-meal quality, by C. R. Grau, R. N. Barnes, Neva L. Karrick, and Lynne G. McKee. New techniques for freezing and storing north Atlantic lobsters, by John A. Peters and Joseph W. Slavin. pp. 15-23, illus. From Commercial Fisheries Review, July 1956, v. 18, no. 7.
- *Sep 444. New products from fish oils. Part 1 - Introduction, by Maurice E. Stansby. pp. 1-3, illus. From Commercial Fisheries Review, Aug. 1956, v. 18, no. 8.
- *Sep 445. "Brown-spotting" in the southern oyster, by Milton Fingerman. pp. 4-5, illus. From Commercial Fisheries Review, Aug. 1956, v. 18, no. 8.
- *Sep 446. Fishery tariff concessions in 1956 Geneva negotiations, by A. M. Sandberg. pp. 6-13, illus. From Commercial Fisheries Review, Aug. 1956, v. 18, no. 8.
- *Sep 447. Development of the Pacific Coast ocean shrimp fishery, by James L. Squire, Jr. pp. 1-6, illus. From Commercial Fisheries Review, Sept. 1956, v. 18, no. 9.
- *Sep 448. New products from fish oils. Part 2 - Polyamino fatty acids derived from fish oils, by R. N. McDonald and Edward H. Gruger, Jr. pp. 7-11, illus. From Commercial Fisheries Review, Sept. 1956, v. 18, no. 9.
- *Sep 449. "Tentative" method for determining coating content of frozen fried fish sticks pp. 12-13. From Commercial Fisheries Review, Sept. 1956, v. 18, no. 9.

- *Sep 450. Georges Bank haddock fishery -- changes in scrod abundance in recent years, by John R. Clark. pp. 1-3, illus. From Commercial Fisheries Review, Oct. 1956, v. 18, no. 10.
- *Sep 451. Bleeding and heat death in the southern oyster, by Milton Fingerman and Laurence D. Fairbanks. pp. 4-5, illus. From Commercial Fisheries Review, Oct. 1956, v. 18, no. 10.
- *Sep 452. New diving sled, by Reidar F. Sand. pp. 6-7, illus. From Commercial Fisheries Review, Oct. 1956, v. 18, no. 10.
- *Sep 453. Experimental fish meal dryer. p. 8. From Commercial Fisheries Review, Oct. 1956, v. 18, no. 10.
- *Sep 454. Development of markets for underutilized Lake Erie fish -- progress report, by Ernie D. Premetz. pp. 1-7, illus. From Commercial Fisheries Review, Nov. 1956, v. 18, no. 11.
- *Sep 455. Correlation of pH and quality of shucked southern oysters, by E. A. Gardner and B. M. Watts. pp. 8-15, illus. From Commercial Fisheries Review, Nov. 1956, v. 18, no. 11.
- *Sep 456. Cold storage life of fresh-water fish -- No. 3 (Lake herring, northern pike, and white-fish), by Kathryn L. Osterhaug, pp. 16-18, illus. From Commercial Fisheries Review, Nov. 1956, v. 18, no. 11.
- *Sep 457. Cold-storage studies on Gulf of Mexico yellowfin tuna. pp. 18-19. From Commercial Fisheries Review, Nov. 1956, v. 18, no. 11.
- Sep 458. North Atlantic shrimp keeping quality in cold storage. p. 20. From Commercial Fisheries Review, Nov. 1956, v. 18, no. 11.
- *Sep 459. Technical Note No. 34 - Growth characteristics of the pink yeast that causes discoloration of oysters, by Grace McCormack. pp. 21-23, illus. From Commercial Fisheries Review, Nov. 1956, v. 18, no. 11.
- *Sep 460. Preliminary results of deep-water exploration for shrimp in the Gulf of Mexico by the M/V Oregon (1950-1956), by Harvey R. Bullis, Jr. pp. 1-12, illus. From Commercial Fisheries Review, Dec. 1956, v. 18, no. 12.
- *Sep 461. Iron sulfide discoloration of tuna cans. No. 4 - Effect of retorting and cooling canned fish, by George M. Pigott and M. E. Stansby. pp. 13-16, illus. From Commercial Fisheries Review, Dec. 1956, v. 18, no. 12.
- *Sep 462. Pilot-plant fish-meal dryer, by Lynne G. McKee and Neva L. Karrick. pp. 17-23, illus. From Commercial Fisheries Review, Dec. 1956, v. 18, no. 12.
- *Sep 463. Variation in proximate composition of right and left fillets of rockfish (Sebastes pinniger) and dover sole (Microstomus pacificus), by R. O. Sinnhuber, T. C. Yu, Te Chang Yu, and N. L. Karrick. pp. 24-29, illus. From Commercial Fisheries Review, Dec. 1956, v. 18, no. 12.
- *Sep 464. Development of "honeycombing" in Hawaiian skipjack tuna, by Tamio Otsu. pp. 1-8, illus. From Commercial Fisheries Review, Jan. 1957, v. 19, no. 1.
- *Sep 465. Shrimp explorations off the Washington Coast, fall 1955 and spring 1956, by Edward A. Schaefers and Harold C. Johnson. pp. 9-25, illus. From Commercial Fisheries Review, Jan. 1957, v. 19, no. 1.
- *Sep 466. Chemical compounds formed during the spoilage of fish, by David T. Miyauchi and Donald C. Malins. pp. 26-29, illus. From Commercial Fisheries Review, Jan. 1957, v. 19, no. 1.
- *Sep 467. Technical Note No. 36 - Determining fish content of frozen fried fish sticks, by Anthony J. Frascatore, Jr. pp. 30-33, illus. From Commercial Fisheries Review, Jan. 1957, v. 19, no. 1.
- *Sep 468. Some factors affecting "sawdust" losses during the cutting of fish sticks, by F. J. Cocca. pp. 1-6, illus. From Commercial Fisheries Review, Feb. 1957, v. 19, no. 12.
- *Sep 469. Iron sulfide discoloration of tuna cans. No. 5 - Effect of salt, oil, and miscellaneous additives, by George M. Pigott and M. E. Stansby. pp. 7-9, illus. From Commercial Fisheries Review, Feb. 1957, v. 19, no. 2.
- *Sep 470. Cold-storage life of frozen fish improved by better handling practices. pp. 16-19. From Commercial Fisheries Review, Feb. 1957, v. 19, no. 2.

- *Sep 471. Fish-hatchery food from anchovies caught near Santa Barbara, California, by F. Bruce Sanford. pp. 16-19, illus. From Commercial Fisheries Review, Feb. 1957, v. 19, no. 2.
- *Sep 472. Bottom trawling exploration in the Strait of Juan de Fuca--February to March 1956, by Melvin R. Greenwood. pp. 1-10, illus. From Commercial Fisheries Review, Mar. 1957, v. 19, no. 3.
- *Sep 473. Iron sulfide discoloration of tuna cans. No. 6 - Experiments to elucidate mechanism of the reaction, by George M. Pigott and M. E. Stansby. pp. 1-5, illus. From Commercial Fisheries Review, Apr. 1957, v. 19, no. 4.
- *Sep 474. An experimental air-pressure depth-meter for use with midwater trawls, by Keith A. Smith. pp. 6-12, illus. From Commercial Fisheries Review, Apr. 1957, v. 19, no. 4.
- *Sep 475. Pacific Coast fishing ports, by F. Bruce Sanford. pp. 20-23, illus. From Commercial Fisheries Review, Apr. 1957, v. 19, no. 4.
- *Sep 476. A picture study of an American whaling operation, by F. Bruce Sanford. pp. 1-8, illus. From Commercial Fisheries Review, May 1957, v. 19, no. 5.
- *Sep 477. Bulk handling of Alaska herring meal, by Robert M. Kyte. pp. 9-14, illus. From Commercial Fisheries Review, May 1957, v. 19, no. 5.
- *Sep 478. Technical Note No. 37 - Use of bacterial culture to aid separation of menhaden oil in gravity tanks, by Jerome Kern. Progress on fish meal nutritive value studies, by Neva L. Karrick, pp. 15-18, illus. From Commercial Fisheries Review, May 1957, v. 19, no. 5.
- *Sep 479. North Pacific albacore tuna exploration by the M/V John N. Cobb -- 1956, by Donald E. Powell. pp. 1-9, illus. From Commercial Fisheries Review, June 1957, v. 19, no. 6.
- *Sep 480. Cold storage of frozen Pacific oysters (Crassostrea gigas). No. 2 - Effect of antioxidant and other treatments on keeping quality, by Kathryn L. Osterhaug and Richard W. Nelson. pp. 10-17, illus. From Commercial Fisheries Review, June 1957, v. 19, no. 6.
- *Sep 481. How to cook frozen fish without prethawing. Part 2 - The effect of oven temperature on cooking time for frozen halibut steaks, by Lois C. Elgin, Kathryn L. Osterhaug, and Thelma S. Rose. pp. 1-4, illus. From Commercial Fisheries Review, July 1957, v. 19, no. 7.
- *Sep 482. Technical Note No. 39 - Frozen tuna sampler, by Lynne G. McKee. pp. 7-9, illus. From Commercial Fisheries Review, July 1957, v. 19, no. 7.
- *Sep 483. Laboratory method of obtaining unsaturated fatty alcohols from fish oils, by Edward H. Gruger, Jr. pp. 1-5, illus. From Commercial Fisheries Review, Aug. 1957, v. 19, no. 8.
- *Sep 484. Discoloration in precooked tuna for canning. Technical Note No. 40 - Experimental mobile de-icing, washing, and weighing unit for unloading fish from vessels, by Joseph W. Slavin. pp. 6-10, illus. From Commercial Fisheries Review, Aug. 1957, v. 19, no. 8.
- *Sep 485. Maine herring explorations and fishing gear experiments, by Keith A. Smith. pp. 1-15, illus. From Commercial Fisheries Review, Sept. 1957, v. 19, no. 9.
- *Sep 486. Body fluid losses of northern and southern oysters, by Milton Fingerman, Laurence D. Fairbanks, and Warren C. Plauche. pp. 16-18, illus. From Commercial Fisheries Review, Sept. 1957, v. 19, no. 9.
- *Sep 487. Comparative study of fresh-water and salt-water ice as preservatives for haddock. pp. 19-20, illus. From Commercial Fisheries Review, Sept. 1957, v. 19, no. 9.
- *Sep 488. Lobster and oyster culture at Prince Rupert, B. C., by Fred Hipkins. pp. 62-64, illus. From Commercial Fisheries Review, Sept. 1957, v. 19, no. 9.
- *Sep 489. An investigation of the chemistry of texture changes of frozen blue crab meat, by George S. Morrison and Fletcher P. Veitch. pp. 1-5, illus. From Commercial Fisheries Review, Oct. 1957, v. 19, no. 10.
- *Sep 490. Bone detection in fish by X-ray examination. Part 2 - Fluoroscopic examination of frozen fried fish sticks, by J. J. Powell. pp. 1-3, illus. From Commercial Fisheries Review, Nov. 1957, v. 19, no. 11.

- *Sep 491. Meat content of Pavlov Bay king crabs, by Henry M. Sakuda. pp. 4-6, illus. From Commercial Fisheries Review, Nov. 1957, v. 19, no. 11.
- *Sep 492. Structure and function of the kidney in the oyster, by Milton Fingerman and Laurence D. Fairbanks. p. 10, illus. From Commercial Fisheries Review, Nov. 1957, v. 19, no. 11.
- *Sep 493. Effects of temperature upon the storage life of fresh shucked Pacific oysters (*Ostrea gigas*), by Harmon L. Liebman, George Kudo, Julia G. Chapel, and Joseph A. Stern. pp. 1-4, illus. From Commercial Fisheries Review, Dec. 1957, v. 19, no. 12.
- *Sep 494. A review of the soupfin shark fishery of the Pacific Coast, by Lorry M. Nakatsu. pp. 5-8, illus. From Commercial Fisheries Review, Dec. 1957, v. 19, no. 12.
- *Sep 495. Technical Note No. 41 - Bacterial studies of frozen raw breaded shrimp, by Jerome Kern. pp. 11-14, illus. From Commercial Fisheries Review, Dec. 1957, v. 19, no. 12.
- *Sep 496. Utilization of fish waste in northern Oregon for mink feed, by F. Bruce Sanford. pp. 40-47, illus. From Commercial Fisheries Review, Dec. 1957, v. 19, no. 12.
- *Sep 497. Sodium and potassium in the edible portions of 34 species of fish, by Claude E. Thurston. pp. 1-5, illus. From Commercial Fisheries Review, Jan. 1958, v. 20, no. 1.
- *Sep 498. Comparative keeping quality, cooling rates, and storage temperatures of haddock held in fresh-water ice and in salt-water ice, by John A. Peters and Joseph W. Slavin. pp. 6-13, illus. From Commercial Fisheries Review, Jan. 1958, v. 20, no. 1.
- *Sep 499. Progress on studies in utilization of fish-oil derivatives in ore flotation, by S. R. B. Cooke. Development of objective tests for quality of fresh, frozen, and processed fish, by Frank T. Piskur. Technical Note No. 42 - Keeping quality and rate of freezing of cooked deep-sea lobster meat frozen in cans, by John A. Peters and Joseph W. Slavin. Tests on storage of frozen shrimp show that proper packaging "pays off," by J. A. Peters and D. T. McLane. pp. 14-28, illus. From Commercial Fisheries Review, Jan. 1958, v. 20, no. 1.
- *Sep 500. Pacific Coast fishing ports, by F. Bruce Sanford. pp. 48-56, illus. From Commercial Fisheries Review, Jan. 1958, v. 20, no. 1.
- *Sep 501. Federal specifications for fishery food products and the responsibility of the U.S. Bureau of Commercial Fisheries, by Frank T. Piskur and Marion N. Sereno. pp. 1-6, illus. From Commercial Fisheries Review, Feb. 1958, v. 20, no. 2.
- *Sep 502. Correlation of midwater trawl catches with echo recordings in the northeastern Pacific, by Edward A. Schaefer and Donald E. Powell. pp. 7-15, illus. From Commercial Fisheries Review, Feb. 1958, v. 20, no. 2.
- *Sep 503. Pacific Coast program on the irradiation preservation of fish--phase report, by David T. Miyauchi. Technical Note No. 43 - Considerations on the use of refrigerated brine for chilling and storing fresh fish, by Joseph Stern and John A. Dassow. pp. 16-20, illus. From Commercial Fisheries Review, Feb. 1958, v. 20, no. 2.
- *Sep 504. Potential byproducts from Alaska fisheries: utilization of salmon eggs and salmon waste, by R. M. Kyte. pp. 1-5, illus. From Commercial Fisheries Review, Mar. 1958, v. 20, no. 3.
- *Sep 505. Breeding contributes to the microbial populations of frozen breaded fishery products, by Melvin A. Benarde. pp. 6-10, illus. From Commercial Fisheries Review, Mar. 1958, v. 20, no. 3.
- *Sep 506. Oysters, by V. L. Loosanoff. pp. 45-47, illus. From Commercial Fisheries Review, Jan. 1958, v. 20, no. 1.
- *Sep 507. A Japanese high-seas salmon fishery in the north Pacific since 1952, by Francis M. Fukuhara and George K. Tanonaka. pp. 1-16, illus. From Commercial Fisheries Review, Apr. 1958, v. 20, no. 4.
- *Sep 508. Fish-oil research at the Seattle Fishery Technological Laboratory, by Phillip A. Hart. pp. 17-20, illus. From Commercial Fisheries Review, Apr. 1958, v. 20, no. 4.
- *Sep 509. New England's industrial fishery, by Robert L. Edwards and Fred E. Lux. pp. 1-6, illus. From Commercial Fisheries Review, May 1958, v. 20, no. 5.

- *Sep 510. Twenty-five years of research and service by the Seattle Technological Laboratory, by Maurice E. Stansby. pp. 7-17, illus. From Commercial Fisheries Review, May 1958, v. 20, no. 5.
- Sep 511. Damariscotta (Maine) alewife fishery, by James P. Cating. pp. 1-5, illus. From Commercial Fisheries Review, June 1958, v. 20, no. 6.
- *Sep 512. The blue crab and its fishery in Chesapeake Bay. Part 1- Reproduction, early development, growth, and migration, by W. A. Van Engel. pp. 6-17, illus. From Commercial Fisheries Review, June 1958, v. 20, no. 6.
- *Sep 513. Report on development of fungicides from fish oil, by Charles F. Lee. Technical Note No. 44 - Industry tests show brine-frozen haddock to be of good quality, by Joseph W. Slavin. pp. 20-21, illus. From Commercial Fisheries Review, June 1958, v. 20, no. 6.
- *Sep 514. Freezing and storing deep-sea lobsters -- some tests on cooked whole lobsters, by Joseph W. Slavin and John A. Peters. pp. 7-16, illus. From Commercial Fisheries Review, July 1958, v. 20, no. 7.
- *Sep 515. Nutritional value of fish in reference to atherosclerosis and current dietary research, by Charles Butler. pp. 7-16, illus. From Commercial Fisheries Review, July 1958, v. 20, no. 7.
- *Sep 516. Technical Note No. 45 - Preparation of dried fish solubles from concentrated press liquors on a laboratory scale, by George Mangan, Joseph H. Carver, Maynard A. Steinberg, and Donald Snyder. pp. 17-18, illus. From Commercial Fisheries Review, July 1958, v. 20, no. 7.
- *Sep 517. Chemical and enzymatic hydrolysis of fish scales, by C. R. Fellers, N. I. Lemack, and G. E. Livingston. pp. 1-3, illus. From Commercial Fisheries Review, Aug. 1958, v. 20, no. 8.
- *Sep 518. Amino acid composition of the protein and inorganic constituents of the ash of pollock fish scales, by Donald G. Snyder. pp. 4-9, illus. From Commercial Fisheries Review, Aug. 1958, v. 20, no. 8.
- *Sep 519. Gloucester's trawl fishery for industrial fish, by Robert L. Edwards. pp. 10-15, illus. From Commercial Fisheries Review, Aug. 1958, v. 20, no. 8.
- *Sep 520. Inspection and certification of fishery products by U.S. Department of the Interior. pp. 16-20, illus. From Commercial Fisheries Review, Aug. 1958, v. 20, no. 8.
- *Sep 521. Changes in composition of sole during refrigeration, by Claude E. Thurston. pp. 21-22, illus. From Commercial Fisheries Review, Aug. 1958, v. 20, no. 8.
- *Sep 522. A practical depth telemeter for midwater trawls, by Richard L. McNeely. pp. 1-10, illus. From Commercial Fisheries Review, Sept. 1958, v. 20, no. 9.
- *Sep 523. Color and quality of canned Gulf of Mexico yellowfin tuna as related to weight of fish, by Arnold W. Tubman and Lynne G. McKee. pp. 11-14, illus. From Commercial Fisheries Review, Sept. 1958, v. 20, no. 9.
- *Sep 524. 1957: The year of warm water and southern fish off California Coast. pp. 15-24, illus. From Commercial Fisheries Review, Sept. 1958, v. 20, no. 9.
- *Sep 525. Enzymes in fish tissue under study. Improved handling of fish aboard Massachusetts fishing vessels, by Frederick C. Wilbour, Jr. pp. 25-26. From Commercial Fisheries Review, Sept. 1958, v. 20, no. 9.
- *Sep 526. A new method of handling long-line gear using a rotating tub, by Herbert J. Mann. pp. 1-8, illus. From Commercial Fisheries Review, Oct. 1958, v. 20, no. 10.
- *Sep 527. Technical Note No. 46 - Method for removing blood from halibut to improve appearance of frozen steaks, by David T. Miyauchi and Richard W. Nelson. pp. 9-12. From Commercial Fisheries Review, Oct. 1958, v. 20, no. 10.
- *Sep 528. An economic analysis of freezing fish at sea, by Sumner M. Rosen. pp. 1-14, illus. From Commercial Fisheries Review, Nov. 1958, v. 20, no. 11.
- *Sep 529. Contribution to the chemistry of the king crab (*Paralithodes camtschatica*), by Harry L. Seagran. pp. 15-22, illus. From Commercial Fisheries Review, Nov. 1958, v. 20, no. 11.

- *Sep 530. Fish spoilage. 1 - Determination of bacterial metabolites by gas chromatography, by Herman S. Groninger. Technical Note No. 47 - Steelhead trout - description and proximate composition, by John L. Iverson. pp. 23-28, illus. From Commercial Fisheries Review, Nov. 1958, v. 20, no. 11.
- *Sep 531. Certification and after-use measurement of manila otter-trawl cod ends, by Ernest J. Medico. pp. 1-8, illus. From Commercial Fisheries Review, Dec. 1958, v. 20, no. 12.
- *Sep 532. Bottom trawling explorations off southeastern Alaska, 1956-1957, by Melvin R. Greenwood. pp. 9-21, illus. From Commercial Fisheries Review, Dec. 1958, v. 20, no. 12.
- *Sep 533. Technical Note No. 48 - Pacific ocean perch - proximate composition, by John L. Iverson. pp. 22-25, illus. From Commercial Fisheries Review, Dec. 1958, v. 20, no. 12.
- *Sep 534. A survey of the American and Japanese albacore tuna fisheries in the Pacific through examination of catch statistics, by Tamio Otsu. pp. 1-12, illus. From Commercial Fisheries Review, Jan. 1959, v. 21, no. 1.
- *Sep 535. The European Common Market and the United States fishing industry, by Thomas G. Lopp. pp. 13-20, illus. From Commercial Fisheries Review, Jan. 1959, v. 21, no. 1.
- *Sep 536. Technical Note No. 49 - Measurement of rancidity in fishery products by 2-thio-barbituric acid method, by Boyd A. Ryan and M. E. Stansby. pp. 21-23. From Commercial Fisheries Review, Jan. 1959, v. 21, no. 1.
- *Sep 537. Divers study behavior of starfish and industry control methods. pp. 39-41. From Commercial Fisheries Review, Jan. 1959, v. 21, no. 1.
- *Sep 538. New England commercial bluefin tuna purse seining - 1958 season, by James L. Squire, Jr. pp. 1-5, illus. From Commercial Fisheries Review, Feb. 1959, v. 21, no. 2.
- *Sep 539. Salt content of eviscerated haddock frozen in sodium-chloride brine, by John A. Peters. pp. 6-9, illus. From Commercial Fisheries Review, Feb. 1959, v. 21, no. 2.
- *Sep 540. Technical Note No. 50 - Effects of temperature and salinity on ciliary activity in the oyster, Crassostrea virginica, by Milton Fingerman. pp. 10-11, illus. From Commercial Fisheries Review, Feb. 1959, v. 21, no. 2.
- *Sep 541. Oysters. Spawning and setting in Long Island Sound, summer 1958. pp. 27-29, illus. From Commercial Fisheries Review, Feb. 1959, v. 21, no. 2.
- *Sep 542. Ascorbic acid as an antioxidant for frozen oysters and effect of copper-chelating ability of oyster tissue on ascorbic acid oxidation, by Mark G. Schwartz and Betty M. Watts. pp. 1-6, illus. From Commercial Fisheries Review, Mar. 1959, v. 21, no. 3.
- *Sep 543. King crab, shrimp, and bottom fish explorations from Shumagin Islands to Unalaska, Alaska - summer and fall, 1957, by Harold C. Johnson. pp. 7-19, illus. From Commercial Fisheries Review, Mar. 1959, v. 21, no. 3.
- *Sep 544. Technical Note No. 51 - Use of corn-syrup solids in packaging and freezing fish, by John A. Dassow and Richard W. Nelson. pp. 20-24, illus. From Commercial Fisheries Review, Mar. 1959, v. 21, no. 3.
- *Sep 545. Summary report of exploratory long-line fishing for tuna in Gulf of Mexico and Caribbean Sea, 1954-1957, by Fredrick Wathne. pp. 1-26, illus. From Commercial Fisheries Review, Apr. 1959, v. 21, no. 4.
- *Sep 546. Fisheries Instrumentation Laboratory offers biologists new research "tools," by Richard W. van Haagen and Harry P. Dale. pp. 27-31, illus. From Commercial Fisheries Review, Apr. 1959, v. 21, no. 4.
- *Sep 547. Fish-bone detection device shows promise. Technical Note No. 52 - Recommendations for processing fishery products for low-sodium diets. pp. 32-36, illus. From Commercial Fisheries Review, Apr. 1959, v. 21, no. 4.
- Sep 548. The role of holding pounds in the Maine lobster industry, by Robert L. Dow, Donald M. Harriman, and Leslie W. Scattergood. pp. 1-14, illus. From Commercial Fisheries Review, May 1959, v. 21, no. 5.

- *Sep 549. Technical Note No. 53 - Utilization of sea cucumbers (Holothurians) as food, by John A. Dassow. pp. 15-17. From Commercial Fisheries Review, May 1959, v. 21, no. 5.
- *Sep 550. Practical method of preventing a purse-seine net from sinking to its full depth, by A. D. Sokolich. pp. 32-34, illus. From Commercial Fisheries Review, May 1959, v. 21, no. 5.
- *Sep 551. Shrimp explorations off south-eastern coast of the United States. (1956-1958), by Harvey R. Bullis, Jr., and Warren F. Rathjen. pp. 1-20, illus. From Commercial Fisheries Review, June 1959, v. 21, no. 6.
- *Sep 552. Flavor and odor of fish - progress report, by George F. Mangan, Jr. pp. 21-27, illus. From Commercial Fisheries Review, June 1959, v. 21, no. 6.
- *Sep 553. Shrimp exploration in central Alaskan waters, by M/V John N. Cobb, July-August 1958, by Melvin R. Greenwood. pp. 1-13, illus. From Commercial Fisheries Review, July 1959, v. 21, no. 7.
- *Sep 554. Current status of the Inter-American Development Bank, by Raymond E. Steele. pp. 14-15. From Commercial Fisheries Review, July 1959, v. 21, no. 7.
- *Sep 555. Proximate composition of Gulf of Mexico industrial fish. Part 3 - Fall studies (1958), by Mary H. Thompson. Technical Note No. 54 - Dicarbonyl compounds as components of fish odor, by George F. Mangan, Jr. pp. 16-23, illus. From Commercial Fisheries Review, July 1959, v. 21, no. 7.
- *Sep 556. Construction and catch selectivity of albacore gill nets used in the central north Pacific, by Joseph J. Graham and Herbert J. Mann. pp. 1-6, illus. From Commercial Fisheries Review, Aug. 1959, v. 21, no. 8.
- *Sep 557. Nutritional values of fish-meal proteins and their relation to processing variables, by C. R. Grau, Neva L. Karrick, B. D. Lundholm, and R. N. Barnes. pp. 7-12, illus. From Commercial Fisheries Review, Aug. 1959, v. 21, no. 8.
- *Sep 558. Canned tuna quality improvement studies. pp. 13-17. From Commercial Fisheries Review, Aug. 1959, v. 21, no. 8.
- *Sep 559. Storage life of pink shrimp held in commercial and jacketed cold-storage rooms, by John A. Peters and Daniel T. McLane. pp. 1-7, illus. From Commercial Fisheries Review, Sept. 1959, v. 21, no. 9.
- *Sep 560. Surinam fishery explorations, May 11 - July 31, 1957, by James B. Higman. pp. 8-15, illus. From Commercial Fisheries Review, Sept. 1959, v. 21, no. 9.
- *Sep 561. Fishing vessel and gear developments. Equipment Note No. 1 - New all-aluminum salmon gill-net boats built for Alaska fishery, by Fred Wathne. pp. 29-30, illus. From Commercial Fisheries Review, Sept. 1959, v. 21, no. 9.
- *Sep 562. Effect of radiation pasteurization on the storage life and acceptability of some north Atlantic fish, by Joseph H. Carver and Maynard A. Steinberg, pp. 1-6, illus. From Commercial Fisheries Review, Oct. 1959, v. 21, no. 10.
- *Sep 563. Observations on trawl-door spread and a discussion of influencing factors, by Fredrick Wathne. pp. 7-15. From Commercial Fisheries Review, Oct. 1959, v. 21, no. 10.
- *Sep 564. Possible Atomic Energy Commission assistance of research on radiation preservation of fish. pp. 16-21, illus. From Commercial Fisheries Review, Oct. 1959, v. 21, no. 10.
- *Sep 565. Shrimp exploration by the M/V Oregon along the northeast coast of South America, by H. R. Bullis, Jr., and J. R. Thompson. pp. 1-9, illus. From Commercial Fisheries Review, Nov. 1959, v. 21, no. 11.
- *Sep 566. Influence of vessel-handling practices on formation of black spot in shrimp, by Charles F. Lee. pp. 10-16, illus. From Commercial Fisheries Review, Nov. 1959, v. 21, no. 11.
- *Sep 567. Fish and shellfish purchases by public schools with food services, 1957-58, by William S. Hoofnagle and Kenneth E. Anderson. pp. 17-20, illus. From Commercial Fisheries Review, Nov. 1959, v. 21, no. 11.

- *Sep 568. Chemical composition of Pacific Coast fish and shellfish. pp. 21-24, illus. From Commercial Fisheries Review, Nov. 1959, v. 21, no. 11.
- *Sep 569. Use of plastic sheets for conversion of soft, muddy bottoms into oyster beds, by V. L. Loosanoff. pp. 45-47, illus. From Commercial Fisheries Review, Nov. 1959, v. 21, no. 11.
- *Sep 570. Second World Fishing Boat Congress. Part 1 - Observations of a United States Government fishery methods and equipment specialist, by Stewart Springer. Part 2 - Observations of a United States Government fishery technologist, by Joseph W. Slavin. Part 3 - Fish quality stressed, by Joseph W. Slavin. pp. 1-16, illus. From Commercial Fisheries Review, Dec. 1959, v. 21, no. 12.
- *Sep 571. An economic and financial study of the fluke otter-trawl fishery of New Jersey, by Frans L. Widerstrom, Jr. pp. 17-26, illus. From Commercial Fisheries Review, Dec. 1959, v. 21, no. 12.
- *Sep 572. A report to the shellfish industry, by Arnie J. Suomela. pp. 27-30, illus. From Commercial Fisheries Review, Dec. 1959, v. 21, no. 12.
- *Sep 573. Fishing vessel and gear developments. Equipment Note No. 2 - Pacific Coast drum trawling, by Fred Wathne. pp. 34-36, illus. From Commercial Fisheries Review, Dec. 1959, v. 21, no. 12.
- *Sep 574. Results of exploratory shrimp fishing off Washington and Oregon (1958), by Dayton L. Alverson, Richard L. McNeely, and Harold C. Johnson. pp. 1-11, illus. From Commercial Fisheries Review, Jan. 1960, v. 22, no. 1.
- *Sep 575. Fish flour for human consumption, by June H. Olden. pp. 12-18, illus. From Commercial Fisheries Review, Jan. 1960, v. 22, no. 1.
- *Sep 576. Sanitation aboard fishing trawlers improved by using chlorinated sea water, by Arvey H. Linda and Joseph W. Slavin. pp. 19-23, illus. From Commercial Fisheries Review, Jan. 1960, v. 22, no. 1.
- *Sep 577. Ocean perch filleting machine successfully fillets yellow perch. pp. 24-25. From Commercial Fisheries Review, Jan. 1960, v. 22, no. 1.
- *Sep 578. The pound-net fishery in Virginia. Part 2 - Species composition of landings reported as menhaden, by J. L. McHugh. pp. 1-16, illus. From Commercial Fisheries Review, Feb. 1960, v. 22, no. 2.
- *Sep 579. Possibilities for applying fish oil to ore flotation, by M. E. Stansby. pp. 17-21, illus. From Commercial Fisheries Review, Feb. 1960, v. 22, no. 2.
- *Sep 580. Composition of fish and shellfish. pp. 22-25, illus. From Commercial Fisheries Review, Feb. 1960, v. 22, no. 2.
- *Sep 581. Processing and quality studies of shrimp held in refrigerated sea water and ice. Part 1 - Preliminary observations on machine-peeling characteristics and product quality, by Jeff Collins. pp. 1-5, illus. From Commercial Fisheries Review, Mar. 1960, v. 22, no. 3.
- *Sep 582. Braided synthetic twines and their use in the New England trawl fishery, by Michael Ruggiero. pp. 6-11, illus. From Commercial Fisheries Review, Mar. 1960, v. 22, no. 3.
- *Sep 583. Processing and quality studies of shrimp held in refrigerated sea water and ice. Part 2 - Comparison of objective methods for quality evaluation of raw shrimp, by Jeff Collins, Harry Seagran, and John Iverson. pp. 1-5, illus. From Commercial Fisheries Review, Apr. 1960, v. 22, no. 4.
- *Sep 584. Shrimp-waste meal: Effect of storage variables on pigment content, by J. E. Rousseau, Jr. pp. 6-10, illus. From Commercial Fisheries Review, Apr. 1960, v. 22, no. 4.
- *Sep 585. New technological laboratory for fisheries research in Gloucester, Massachusetts. pp. 11-13, illus. From Commercial Fisheries Review, Apr. 1960, v. 22, no. 4.
- *Sep 586. Composition of rockfish. p. 14. From Commercial Fisheries Review, Apr. 1960, v. 22, no. 4.
- *Sep 587. Processing and quality studies of shrimp held in refrigerated sea water and ice. Part 3 - Holding variables and keeping quality of the raw whole shrimp, by Harry Seagran, Jeff Collins, and John Iverson. pp. 1-5, illus. From Commercial Fisheries Review, May 1960, v. 22, no. 5.

- *Sep 588. Technical Note No. 55 - Recommended practices for processing chilled and frozen whiting, by R. D. Tenny and M. N. Sereno. pp. 6-9, illus. From Commercial Fisheries Review, May 1960, v. 22, no. 5.
- *Sep 589. Fishing vessel and gear developments. Equipment Note No. 3--New diving sled for underwater photography, by John Holt. pp. 10-12, illus. From Commercial Fisheries Review, May 1960, v. 22, no. 5.
- *Sep 590. Exploratory fishing in Lake Erie, September 1958-November 1959, by Reidar F. Sand and William G. Gordon. pp. 1-12, illus. From Commercial Fisheries Review, June 1960, v. 22, no. 6.
- *Sep 591. Fish flour is primarily a protein concentrate--not a substitute for grain flour. pp. 13-14. From Commercial Fisheries Review, June 1960, v. 22, no. 6.
- *Sep 592. Fishing vessel and gear developments. Equipment Note No. 4--A method of making electrical trawl cable terminations and connections, by Richard L. McNeely. pp. 15-19, illus. From Commercial Fisheries Review, June 1960, v. 22, no. 6.
- *Sep 593. Proximate composition of southern oysters--factors affecting variability, by Charles F. Lee, Caroline H. Kurtzman, and Leonard Pepper. pp. 1-8, illus. From Commercial Fisheries Review, July 1960, v. 22, no. 7.
- *Sep 594. Processing and quality studies of shrimp held in refrigerated sea water and ice. Part 4 - Interchange of the components in the shrimp-refrigerated-sea-water system, by Jeff Collins. pp. 9-14, illus. From Commercial Fisheries Review, July 1960, v. 22, no. 7.
- Sep 595. Technical Note No. 56 - Chemical composition and laboratory fillet yield of 13 species of middle and south Atlantic fish, by L. E. Ousterhout. Seasonal variations of physical characteristics and chemical composition of fish from middle Atlantic States, by John G. Wangler. pp. 15-20, illus. From Commercial Fisheries Review, July 1960, v. 22, no. 7.
- *Sep 596. Control of iron sulfide discoloration in canned shrimp (*Xiphopenus* sp.) - Part 1, by Mary H. Thompson and Melvin E. Waters. pp. 1-7, illus. From Commercial Fisheries Review, Aug. 1960, v. 22, no. 8.
- Sep 597. Construction and operation of an inexpensive fish smokehouse, by Melvin E. Waters and D. J. Bond. pp. 8-12, illus. From Commercial Fisheries Review, Aug. 1960, v. 22, no. 8.
- *Sep 598. Lobster explorations on Continental Shelf and Slope off northeast coast of the United States, by Ernest D. McRae, Jr. pp. 1-7, illus. From Commercial Fisheries Review, Sept. 1960, v. 22, no. 9.
- *Sep 599. A small-boat tuna long-line fishery, by Peter C. Wilson. pp. 8-13, illus. From Commercial Fisheries Review, Sept. 1960, v. 22, no. 9.
- *Sep 600. Development and use of otter-trawling gear for red snapper fishing in the Gulf of Mexico, June 1957-May 1959, by Francis J. Captiva and Joaquim B. Rivers. pp. 1-14, illus. From Commercial Fisheries Review, Oct. 1960, v. 22, no. 10.
- *Sep 601. Structure of the fishing industry in the European Common Market, by P. Hovart. pp. 15-26, illus. From Commercial Fisheries Review, Oct. 1960, v. 22, no. 10.
- *Sep 602. A review of the Atlantic Coast whiting fishery, by Raymond L. Fritz. pp. 1-11, illus. From Commercial Fisheries Review, Nov. 1960, v. 22, no. 11.
- *Sep 603. Rapid objective freshness test for blue-crab meat and observations on spoilage characteristics, by Caroline H. Kurtzman and Donald G. Snyder. pp. 12-16, illus. From Commercial Fisheries Review, Nov. 1960, v. 22, no. 11.
- *Sep 604. Fishing vessel and gear development. Equipment Note No. 5--Sink gill-net fishing in New England, by Warren F. Rathjen. pp. 16-19, illus. From Commercial Fisheries Review, Nov. 1960, v. 22, no. 11.
- *Sep 605. Observations of Russia's far eastern fisheries activities, by Charles Butler. pp. 1-15, illus. From Commercial Fisheries Review, Dec. 1960, v. 22, no. 12.
- *Sep 606. Down with rejects--up with profits, by R. T. Whiteleather. pp. 16-19, illus. From Commercial Fisheries Review, Dec. 1960, v. 22, no. 12.
- *Sep 607. Fishing vessel and gear developments. Equipment Note No. 6--Chain bridles and accumulators increase effectiveness of "Fall River" clam dredges in deep water, by Francis J. Captiva. pp. 20-22, illus. From Commercial Fisheries Review, Dec. 1960, v. 22, no. 12.

- *Sep 608. Fishing vessel and gear developments. Equipment Note No. 8--Space-saving chart table installed on Seattle trawler "Sunbeam," by Richard L. McNeely. pp. 22-23, illus. From Commercial Fisheries Review, Dec. 1960, v. 22, no. 12.
- *Sep 609. Shrimp exploration in central Alaskan waters by the M/V John N. Cobb, October-November 1959, by Fred Wathne and Harold C. Johnson. pp. 1-8, illus. From Commercial Fisheries Review, Jan. 1961, v. 23, no. 1.
- *Sep 610. Physical and chemical properties of shrimp drip as indices of quality, by Sammie Bethea and Mary E. Ambrose. pp. 9-14, illus. From Commercial Fisheries Review, Jan. 1961, v. 23, no. 1.
- *Sep 611. Fishing vessel and gear developments. Equipment Note No. 8--New hydraulically-driven block speeds hauling crab-pot warps, by Harold C. Johnson. pp. 15-16, illus. From Commercial Fisheries Review, Jan. 1961, v. 23, no. 1.
- Sep 612. Gulf of Mexico trawl fishery for industrial species, by Winthrop A. Haskell. pp. 1-6, illus. From Commercial Fisheries Review, Feb. 1961, v. 23, no. 2.
- Sep 613. Composition of commercially-important fish from New England waters. Part 1 - Proximate analyses of cod, haddock, Atlantic ocean perch, butterfish, and mackerel, by Bernard I. Sohn, Joseph H. Carver, and George F. Mangin, Jr. pp. 7-10, illus. From Commercial Fisheries Review, Feb. 1961, v. 23, no. 2.
- Sep 614. Air-curtain fishing for Maine sardines, by Keith A. Smith, pp. 1-14, illus. From Commercial Fisheries Review, Mar. 1961, v. 23, no. 3.
- Sep 615. A practical chemical method for killing mussels and other oyster competitors, by Clyde L. MacKenzie, Jr. pp. 15-19, illus. From Commercial Fisheries Review, Mar. 1961, v. 23, no. 3.
- *Sep 616. Experiments utilizing electrical trawl cables--A progress report, by Richard L. McNeely. pp. 1-7, illus. From Commercial Fisheries Review, Apr. 1961, v. 23, no. 4.
- *Sep 617. Inhibition of mold on smoked mullet, by Melvin E. Waters. pp. 8-13, illus. From Commercial Fisheries Review, Apr. 1961, v. 23, no. 4.
- *Sep 618. Application of steaming and vacuum to shucking and cleaning scallops, by Harvey R. Bullis, Jr., and Travis D. Love. pp. 1-4, illus. From Commercial Fisheries Review, May 1961, v. 23, no. 5.
- Sep 619. Red crab explorations off the northeastern coast of the United States, by Ernest D. McRae, Jr. pp. 5-10, illus. From Commercial Fisheries Review, May 1961, v. 23, no. 5.
- *Sep 620. Bottom trawling explorations off the Washington and British Columbia Coasts May-August 1960, by C. R. Hitz, H. C. Johnson, and A. T. Pruter. pp. 1-11, illus. From Commercial Fisheries Review, June 1961, v. 23, no. 6.
- *Sep 621. Indexes of the cost of transportation for fishery products, by Don FitzGibbon. pp. 12-13, illus. From Commercial Fisheries Review, June 1961, v. 23, no. 6.
- *Sep 622. Processing and quality studies of shrimp held in refrigerated sea water and ice. Part 5 - Interchange of components in a shrimp-ice system, by Jeff Collins. pp. 1-3, illus. From Commercial Fisheries Review, July 1961, v. 23, no. 7.
- *Sep 623. A \$700 million food buyer offers special opportunities to small business firms, by Walter R. Jeffrey. pp. 4-9, illus. From Commercial Fisheries Review, July 1961, v. 23, no. 7.
- *Sep 624. A study of vessel and gear usage in the shrimp fishery of the southeastern United States, by Rolf Juhl. pp. 1-8, illus. From Commercial Fisheries Review, Aug. 1961, v. 23, no. 8.
- *Sep 625. Report of "jellied" flounder from Gulf of Mexico, by Travis D. Love. pp. 9-10. From Commercial Fisheries Review, Aug. 1961, v. 23, no. 8.
- *Sep 626. Fishing vessel and gear developments. Equipment Note No. 9--The surf-clam fishery of New Jersey, by Michael Ruggiero. pp. 11-13, illus. From Commercial Fisheries Review, Aug. 1961, v. 23, no. 8.

- *Sep 627. Some factors influencing Maine lobster landings, by Robert L. Dow. Part 1 - Length of fishing time and catch-per-unit-of-gear in the Maine lobster fishery. Part 2 - Influence of economic and biological factors in the Maine lobster fishery as measured by the sequential relationship of sea water temperature to landings to price to fishing intensity. Part 3 - Observations on the productive recovery of the Maine lobster fishery. Part 4 - The role of traps in the Maine lobster fishery. pp. 1-11, illus. From Commercial Fisheries Review, Sept. 1961, v. 23, no. 9.
- *Sep 628. Development of a thread-herring fishery in the Gulf of Mexico, by Johnny A. Butler. pp. 12-17, illus. From Commercial Fisheries Review, Sept. 1961, v. 23, no. 9.
- *Sep 629. Fishing vessel and gear developments. Equipment Note No. 10--A sea sled to towing vessel communication method, by John K. Holt. pp. 18-19, illus. From Commercial Fisheries Review, Sept. 1961, v. 23, no. 9.
- *Sep 630. An interim report of the Cape Canaveral calico scallop bed, by Harvey R. Bullis, Jr., and Robert Cummins, Jr. pp. 1-8, illus. From Commercial Fisheries Review, Oct. 1961, v. 23, no. 10.
- *Sep 631. Investigation of the potential albacore resource of the central north Pacific, by Joseph J. Graham and James W. McGary. pp. 3-7, illus. From Commercial Fisheries Review, Nov. 1961, v. 23, no. 11.
- *Sep 632. Financial assistance to fishing industries in various countries, by C. E. Peterson. pp. 8-13, illus. From Commercial Fisheries Review, Nov. 1961, v. 23, no. 11.
- *Sep 633. Aerial fish spotting in the United States commercial fisheries, by James L. Squire, Jr. pp. 1-7, illus. From Commercial Fisheries Review, Dec. 1961, v. 23, no. 12.
- *Sep 634. Effects of some pesticides on eggs and larvae of oysters (*Crassostrea virginica*) and clams (*Venus mercenaria*), by Harry C. Davis. pp. 8-23, illus. From Commercial Fisheries Review, Dec. 1961, v. 23, no. 12.
- *Sep 635. Principal species of commercial shrimp in Argentina, by Enrique E. Boschi. pp. 56-58, illus. From Commercial Fisheries Review, Dec. 1961, v. 23, no. 12.
- *Sep 636. Exploratory fishing off the coast of North Carolina, September 1959-July 1960, by Robert Cummins, Jr., Joaquim B. Rivers, and Paul J. Struhsaker. pp. 1-9, illus. From Commercial Fisheries Review, Jan. 1962, v. 24, no. 1.
- *Sep 637. Soft-crab industry, by Charles F. Lee and F. Bruce Sanford. pp. 10-12, illus. From Commercial Fisheries Review, Jan. 1962, v. 24, no. 1.
- *Sep 638. North Pacific fishery research vessels, by Ralph P. Silliman. pp. 13-14, illus. From Commercial Fisheries Review, Jan. 1962, v. 24, no. 1.
- *Sep 639. Bluefin tuna concentration found during a long-line exploration of the northwestern Atlantic Slope, by Frank J. Mather, III, and Martin R. Bartlett. pp. 1-7, illus. From Commercial Fisheries Review, Feb. 1962, v. 24, no. 2.
- *Sep 640. The composition of shrimp meal made from fresh and spoiled shrimp heads, by N. Alam Khandker. pp. 8-10, illus. From Commercial Fisheries Review, Feb. 1962, v. 24, no. 2.
- *Sep 641. Oysters. Long Island Sound spawning and setting observations, summer 1961, by V. L. Loosanoff. pp. 35-37, illus. From Commercial Fisheries Review, Feb. 1962, v. 24, no. 2.
- *Sep 642. Blue crab trawl fishery of Georgia, by Robert Cummins, Jr., and Joaquim B. Rivers. pp. 1-6, illus. From Commercial Fisheries Review, Mar. 1962, v. 24, no. 3.
- *Sep 643. Comparison of pH, trimethylamine content, and picric acid turbidity as indices of iced shrimp quality, by Sammie Bethea and Mary E. Ambrose. pp. 7-10, illus. From Commercial Fisheries Review, Mar. 1962, v. 24, no. 3.
- *Sep 644. Machines solve handling problems in oyster plants, by Charles F. Lee and F. Bruce Sanford. pp. 1-4, illus. From Commercial Fisheries Review, Apr. 1962, v. 24, no. 4.
- Sep 645. Effect of butylated hydroxy toluene and potassium sorbate on development of rancidity in smoked mullet, by Mary H. Thompson. pp. 5-11, illus. From Commercial Fisheries Review, Apr. 1962, v. 24, no. 4.

- *Sep 646. Fishing vessel and gear developments. Equipment Note No. 11--A Great Lakes stern-ramp trawler, by William G. Gordon. pp. 33-36, illus. From Commercial Fisheries Review, Apr. 1962, v. 24, no. 4.
- Sep 647. Fish protein concentrate--a high quality animal protein, by E. R. Pariser. pp. 1-5, illus. From Commercial Fisheries Review, May 1962, v. 24, no. 5.
- *Sep 648. Rat-feeding studies to determine presence of antimetabolites, water-soluble vitamins, and essential minerals in raw menhaden as compared with raw haddock and beef, by Caroline H. Kurtzman, Robert R. Kifer, and Donald G. Snyder. pp. 6-10, illus. From Commercial Fisheries Review, May 1962, v. 24, no. 5.
- *Sep 649. Fishing vessels and gear developments. Equipment Note No. 12--A new scallop trawl for North Carolina, by Joaquim B. Rivers. pp. 11-14, illus. From Commercial Fisheries Review, May 1962, v. 24, no. 5.
- *Sep 650. Fishery tariff concessions in the 1960-61 GATT negotiations, by Salvatore DiPalma. pp. 1-6, illus. From Commercial Fisheries Review, June 1962, v. 24, no. 6.
- Sep 651. Construction of a fish weir, by Robert K. Brigham. pp. 12-14, illus. From Commercial Fisheries Review, June 1962, v. 24, no. 6.
- *Sep 652. Chicago receipts of fresh and frozen fishery products, and wholesale market trends, 1961, by G. A. Albano. pp. 1-8, illus. From Commercial Fisheries Review, July 1962, v. 24, no. 7.
- *Sep 653. Aspects of world trade of interest to the fishery industries, by Arthur M. Sandberg. pp. 1-5, illus. From Commercial Fisheries Review, Aug. 1962, v. 24, no. 8.
- Sep 654. Use of environmental and economic factors to check biological fluctuations in Maine lobster population, by Robert L. Dow. pp. 6-8, illus. From Commercial Fisheries Review, Aug. 1962, v. 24, no. 8.
- Sep 655. The blue crab and its fishery in Chesapeake Bay. Part 2 - Types of gear for hard crab fishing, by W. A. Van Engel. pp. 1-10, illus. From Commercial Fisheries Review, Sept. 1962, v. 24, no. 9.
- *Sep 656. Fishing vessel and gear developments. Equipment Note No. 13--Soviet trawlers observed in Gulf of Mexico, by A. T. Pruter. pp. 11-12, illus. From Commercial Fisheries Review, Sept. 1962, v. 24, no. 9.
- Sep 657. A method of predicting fluctuations in the sea scallop populations of Maine, by Robert L. Dow. pp. 1-4, illus. From Commercial Fisheries Review, Oct. 1962, v. 24, no. 10.
- *Sep 658. Accuracy of net-weight determinations for frozen glazed halibut steaks, by Max Patashnik. pp. 5-8, illus. From Commercial Fisheries Review, Oct. 1962, v. 24, no. 10.
- Sep 659. Progress report on midwater trawling studies carried out off the New England Coast in 1961 by M/V Delaware, by Warren F. Rathjen and L. A. Fahlen. pp. 1-11, illus. From Commercial Fisheries Review, Nov. 1962, v. 24, no. 11.
- *Sep 660. The stockfish and spiny lobster fisheries of South Africa, by Albert C. Jensen. pp. 12-16, illus. From Commercial Fisheries Review, Nov. 1962, v. 24, no. 11.
- Sep 661. Snapper trawling explorations along the southeastern coast of the United States, by Robert Cummins, Jr., Joaquim B. Rivers, and Paul Struhsaker. pp. 1-7, illus. From Commercial Fisheries Review, Dec. 1962, v. 24, no. 12.
- *Sep 662. The United States fishing industry and the European Common Market, by Harold E. Crowther and Arthur M. Sandberg. pp. 8-13, illus. From Commercial Fisheries Review, Dec. 1962, v. 24, no. 12.
- *Sep 663. Hydraulic press for laboratory preparation of fish press cake, by Lynne G. McKee and Richard W. Nelson. pp. 14-16, illus. From Commercial Fisheries Review, Dec. 1962, v. 24, no. 12.
- Sep 664. Shellfish hatcheries and their future, by Victor L. Loosanoff and Harry C. Davis. pp. 1-11, illus. From Commercial Fisheries Review, Jan. 1963, v. 25, no. 1.
- Sep 665. Modifications of Chesapeake Bay commercial crab pot, by Peter A. Isaacson. pp. 12-16, illus. From Commercial Fisheries Review, Jan. 1963, v. 25, no. 1.

- *Sep 666. Fish consumption by food stamp and related low-income families, by Rudolph E. DePass and Thomas M. Brooks. pp. 17-20, illus. From Commercial Fisheries Review, Jan. 1963, v. 25, no. 2.
- *Sep 667. A trawling survey of southern Lake Michigan (August-November 1960), by William G. Gordon. pp. 1-6, illus. From Commercial Fisheries Review, Feb. 1963, v. 25, no. 2.
- Sep 668. Gulf States shrimp canning industry, by F. Bruce Sanford, Charles F. Lee, and Travis D. Love. pp. 7-14, illus. From Commercial Fisheries Review, Feb. 1963, v. 25, no. 2.
- *Sep 669. Present and future factors that may influence fish meal demand, by Clarence F. Winchester. pp. 1-7, illus. From Commercial Fisheries Review, Mar. 1963, v. 25, no. 3.
- Sep 670. Oyster industry of Chesapeake Bay, South Atlantic, and Gulf of Mexico, by Charles F. Lee and F. Bruce Sanford. pp. 8-17, illus. From Commercial Fisheries Review, Mar. 1963, v. 25, no. 3.
- *Sep 671. Brazil: Eradication of piranha in inland waters, by Osmar Fontenele. pp. 46-50, illus. From Commercial Fisheries Review, Mar. 1963, v. 25, no. 3.
- *Sep 672. Storage life of individually frozen Pacific oyster meats glazed with plain water or with solutions of ascorbic acid or corn syrup solids, by Richard W. Nelson. pp. 1-4, illus. From Commercial Fisheries Review, Apr. 1963, v. 25, no. 4.
- Sep 673. Fluctuations in Maine shrimp landings, by Robert L. Dow. pp. 5-6, illus. From Commercial Fisheries Review, Apr. 1963, v. 25, no. 4.
- *Sep 674. Review of the 1962 seasonal movement of albacore tuna off the Pacific Coast of the United States, by Glenn A. Flittner. pp. 7-13, illus. From Commercial Fisheries Review, Apr. 1963, v. 25, no. 4.
- Sep 675. Comparison of salmon catches in monofilament and multifilament gill nets, by Herbert A. Larkins. pp. 1-11, illus. From Commercial Fisheries Review, May 1963, v. 25, no. 5.
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