Fishery Publication Index

1920–54

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Circular 36

Fish and Wildlife Service

United States Department of the Interior

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

Circular 36

Fish and Wildlife Service, John L. Farley, *Director*

United States Department of the Interior, Douglas McKay, *Secretary*

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Compilation of this index was a joint undertaking of the Department of the Interior Library and the Fish and Wildlife Service. Participating in its preparation were Isabel D. Aldous and Elizabeth K. Abolin of the Library, Ruth Keefe of the Service's Branch of Commercial Fisheries, and Lola T. Dees of the Service's Branch of Fishery Biology.

INTRODUCTION

This index describes the publications of the United States Bureau of Fisheries from 1920 to 1940 and fishery publications of the Fish and Wildlife Service from 1940 to 1954.

The Fish and Wildlife Service was established June 30, 1940, by consolidation of the Bureau of Fisheries and the Bureau of Biological Survey. Both predecessor agencies were organized originally for research; in the course of years they were given added responsibilities for conservation-law enforcement and resource management. A basic function of each was to "gather and disseminate information," and this has continued as a basic responsibility of the Fish and Wildlife Service. Both predecessors issued reports and informational material in several publication series. Some of these series were continued by the Fish and Wildlife Service; others were succeeded by new series.

Some of the Service's publication series include both fishery and wildlife publications; only the fishery subjects in each series are listed in this index.

The index is in three parts; (1) A serial list of the numbers issued in each publication series, omitting numbers that did not pertain to fisheries; (2) an alphabetical index of authors; and (3) an alphabetical index of subjects. In the author index and in the subject index, the references are to numbers in the series lists.

The publications issued by the Bureau of Fisheries before 1920 were indexed in "An Analytical Subject Bibliography of the Publications of the Bureau of Fisheries, 1871-1920." by Rose M. E. MacDonald, Bureau of Fisheries Document 899. That document, though out of print, may be consulted in many libraries.

PUBLICATION SERIES LISTED

The following publication series are included in this index. The period covered by each series is shown; absence of a second year denotes that the series is still active.

Administrative Reports. 1931-1940. Included some of the annual reports of the Commissioner of Fisheries and annual issues of four appendixes to the Commissioner's Report: Alaska Fishery and Fur-Seal Industries, Fishery Industries of the United States, Progress in Biological Inquiries, and Propagation and Distribution of Food Fishes. The first 20 of these reports were originally issued without series designation. The Administrative Reports were distributed to depository libraries.

Circulars. 1941- . Popular and semitechnical publications of general and regional interest intended to aid conservation and management. Succeeded the Fishery Circular series and a former wildlife circular series. Circulars are usually distributed to depository libraries.

Conservation Bulletins. 1940- . A Department of the Interior series of popular informational or advisory booklets adapted to the interests of the people of the different sections of the country, with contributions from the Fish and Wildlife Service and other bureaus of the Department. Conservation Bulletins are distributed to depository libraries.

Current Fishery Statistics. 1941- . Data on fisheries of various regions of the United States and Alaska. Duplicated leaflets.

Documents. 1881-1930. This series contained most of the formal publications of the Bureau of Fisheries up to 1930, when assignment of a document number to every publication was discontinued; thereafter the Bureau publications were assigned numbers in various separate series. Earlier numbers in the Document series are indexed in Document 899.

Economic Circulars. 1912-1931. Brief advance reports on economic subjects, and information of interest to special industries or localities. Succeeded by Fishery Circular series. Economic Circulars were distributed to depository libraries. Economic Circulars Nos. 1-47 were issued before 1920; No. 20 and No. 42 were revised after 1920 and so are included in this list.

Fishery Bulletins. 1931- . Separates from the Fishery Bulletin of the Fish and Wildlife Service--technical reports of 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. Paging is serially by volumes. Through volume 46, separates were issued as Documents, each with a Document number; beginning with volume 47, each separate was issued as a numbered Bulletin. Fishery Bulletins are distributed to depository libraries.

Fishery Circulars. 1931-1939. Brief accounts of investigations of economic importance or general interest. Succeeded the Economic Circular series; succeeded by the Circular series of the Fish and Wildlife Service. Fishery Circulars were distributed to depository libraries.

Fishery Leaflets. 1941- . Correspondence aids giving information on fishes and fisheries. Usually duplicated from typewritten text. The latest issue or revision of each leaflet is listed, without reference to the original issue.

Investigational Reports. 1931-1939. Results of research and applied science in the fields of biology, technology, economics, and statistics of fisheries. Succeeded by Research Reports. Investigational Reports were distributed to depository libraries.

Market Development Leaflets. 1949- . Lists of refrigerated locker plants and related data. Duplicated from typewritten text.

Progressive Fish-Culturist. 1934- . A periodical containing articles for fishery biologists and fish culturists. The periodical was issued monthly from 1934 to 1938 and bimonthly from 1939 to 1941; it was suspended from 1941 to 1946; it has been a quarterly since 1947. The most important articles in the Progressive Fish-Culturist are listed; they have been designated A, B, C, etc., to facilitate reference from the author and subject indexes. The Progressive Fish-Culturist is distributed to depository libraries.

Regulatory Announcements. 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 Reports. 1941- . Technical papers reporting the results of scientific investigations. Succeeded Investigational Reports (and a former wildlife research series). Research Reports are distributed to depository libraries.

Separates. 1942- . Reprints of articles from the Fish and Wildlife Service monthly journal, Commercial Fisheries Review (called Fishery Market News from 1942 to 1945). Duplicated from typewritten text.

Special Scientific Reports. 1940-1949. Preliminary reports, progress reports, and reports on investigations of restricted scope, intended to aid management and utilization, and to help guide administrative or legislative action; issued in limited quantities for Federal, State, and

cooperating agencies. In 1949 the Special Scientific Reports series was split into a fishery series and a wildlife series, each with a new numerical sequence. Special Scientific Reports are usually duplicated from typewritten text.

Special Scientific Reports--Fisheries. 1949- . See description of Special Scientific Reports, above.

Statistical Digest. 1942- . Statistical material for reference, chiefly tabular, sometimes with explanatory text. Succeeded Administrative Reports. Statistical Digests are distributed to depository libraries.

Statistical Lists. 1941- . Lists of dealers in fishery products. Duplicated from typewritten text.

Test Kitchen Series. 1950- . Pamphlets on buying and cooking fish and shellfish. The Test Kitchen Series is distributed to depository libraries.

PUBLICATION DISTRIBUTION

Printed publications of the Fish and Wildlife Service are generally sold by the Superintendent of Documents, United States Government Printing Office, Washington 25, D. C. Purchase orders should be sent direct to that office (never to the Fish and Wildlife Service); remittances may be by money order, check, or cash. These publications are distributed free to libraries that have been designated depository libraries for government publications; a list of depository libraries may be obtained from the Government Printing Office. In addition the Service distributes its publications free to various libraries, state agencies, and cooperators.

Duplicated publications of the Service are those that are reproduced from typewritten text by office-type machines. These publications are not generally distributed to depository libraries. They are not available for sale, but are supplied by the Service on request. Requests should be addressed to the Director, Fish and Wildlife Service, Department of the Interior, Washington 25, D. C., and should include a statement of the special need for the material.

REFERENCE SYMBOLS

An asterisk (*) before a publication number indicates that the publication is out of print.

The symbol (§) after a publication number indicates omission of one or more titles because they (a) were issued before 1920, (b) had not been issued at the time the list was compiled, (c) did not pertain to fisheries.

The several series are abbreviated as follows:

AR - Administrative Reports

Cir - Circulars

CB - Conservation Bulletins

CFS - Current Fisheries Statistics

Doc - Documents

EC - Economic Circulars

FB - Fishery Bulletins

FC - Fishery Circulars

FL - Fishery Leaflets

IR - Investigational Reports

MDL - Market Development Leaflets

PFC - Progressive Fish-Culturist

RA - Regulatory Announcements

RR - Research Reports

Sep - Separates

SSR - Special Scientific Reports

ABBREVIATIONS--Continued

SSR-F - Special Scientific Reports--Fisheries

SD - Statistical Digests

SL - Statistical Lists

TKS - Test Kitchen Series

PUBLICATION SERIES

* Out of print; available only in libraries.
§ Title omitted; did not pertain to fisheries.

ADMINISTRATIVE REPORTS

*AR 1. Annual report of the Commissioner of Fisheries to the Secretary of Commerce for the fiscal year ended June 30, 1931. 1931. 33 p.

*AR 2. Alaska fishery and fur-seal industries in 1930, by Ward T. Bower. 1931. 1-108 p., illus. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1931.

*AR 3. Fishery industries of the United States; 1930, by R. H. Fiedler. 1931. 109-552 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1931.

*AR 4. Progress in biological inquiries 1930; by Elmer Higgins. 1931. 553-626 p., illus. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1931.

*AR 5. Propagation and distribution of food fishes, fiscal year 1931, by Glen C. Leach. 1932. 627-690 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1931.

*AR 6. Annual report of the Commissioner of Fisheries to the Secretary of Commerce for the fiscal year ended June 30, 1932. 1932. 27 p.

*AR 7. Alaska fishery and fur-seal industries in 1931, by Ward T. Bower. 1932. 1-96 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1932.

*AR 8. Fishery industries of the United States, 1931, by R. H. Fiedler. 1932. 97-440 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1932.

*AR 9. Progress in biological inquiries, 1931, by Elmer Higgins. 1932. 441-529 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1932.

*AR 10. Propagation and distribution of food fishes, fiscal year 1932, by Glen C. Leach. 1933. 531-569 p. Appendix 4 to report of Commissioner of Fisheries for the fiscal year 1932.

*AR 11. Alaska fishery and fur-seal industries in 1932, by Ward T. Bower. 1933. 1-78 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1933.

*AR 12. Progress in biological inquiries, 1932, by Elmer Higgins. 1933. 79-147 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1933.

*AR 13. Fishery industries of the United States, 1932, by R. H. Fiedler. 1933. 149-449 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1933.

*AR 14. Propagation and distribution of food fishes, fiscal year 1933, by Glen C. Leach. 1934. 451-484 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1933.

*AR 15. Fishery industries of the United States, 1933, by R. H. Fiedler, John Ruel Manning and F. F. Johnson. 1934. 1-237 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1934.

*AR 16. Alaska fishery and fur-seal industries in 1933, by Ward T. Bower. 1934. 239-312 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1934.

*AR 17. Progress in biological inquiries, 1933, by Elmer Higgins. 1934. 313-383 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1934.

*AR 18. Propagation and distribution of food fishes, fiscal year 1934, by Glen C. Leach and M. C. James. 1934. 385-417 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1934.

*AR 19. Alaska fishery and fur-seal industries in 1934, by Ward T. Bower. 1935. 1-73 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1935.

*AR 20. Fishery industries of the United States, 1934, by R. H. Fiedler. 1935. 75-330 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1935.

*AR 21. Progress in biological inquiries, 1934, by Elmer Higgins. 1936. 331-399 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1935.

*AR 22. Propagation and distribution of food fishes, fiscal year 1935, by Glen C. Leach and M. C. James. 1936. 401-427 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1935.

*AR 23. Alaska fishery and fur-seal industries in 1935, by Ward T. Bower. 1936. 1-71 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1936.

*AR 24. Fishery industries of the United States, 1935, by R. H. Fiedler. 1936. 73-348 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1936.

*AR 25. Propagation and distribution of food fishes, fiscal year 1936, by Glen C. Leach and M. C. James. 1937. 349-379 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1936.

*AR 26. Progress in biological inquiries, 1935, by Elmer Higgins. 1937. 381-452 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1936.

*AR 27. Fishery industries of the United States, 1936, by R. H. Fiedler. 1938. 1-276 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1937.

*AR 28. Alaska fishery and fur-seal industries in 1936, by Ward T. Bower. 1937. 277-347 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1937.

*AR 29. Progress in biological inquiries, 1936, by Elmer Higgins. 1938. 61 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1937.

*AR 30. Progress in biological inquiries, 1937, by Elmer Higgins. 1938. 1-70 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1938.

*AR 31. Alaska fishery and fur-seal industries in 1937, by Ward T. Bower. 1938. 71-150 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1938.

*AR 32. Fishery industries of the United States, 1937, by R. H. Fiedler. 1938. 151-460 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1938.

*AR 33. Propagation and distribution of food fishes, fiscal year 1937, by Glen C. Leach and M. C. James. 1938. 461-492 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1937.

*AR 34. Propagation and distribution of food fishes, fiscal year 1938, by Glen C. Leach, M. C. James and E. J. Douglass. 1939. 461-494 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1938.

*AR 35. Progress in biological inquiries, 1938, by Elmer Higgins. 1939. 1-81 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1939.

*AR 36. Alaska fishery and fur-seal industries in 1938, by Ward T. Bower. 1940. 83-168 p., illus. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1939.

*AR 37. Fishery industries of the United States, 1938, by R. H. Fiedler. 1940. 169-554 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1939.

*AR 38. Propagation and distribution of food fishes, fiscal year 1939, by Glen C. Leach, M. C. James and E. J. Douglass. 1940. 555-598 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1939.

*AR 39. Progress in biological inquiries, 1939, by Elmer Higgins. 1940. 1-96 p. Appendix 1 to Report of Commissioner of Fisheries for the fiscal year 1940.

*AR 40. Alaska fishery and fur-seal industries in 1939, by Ward T. Bower. 1941. 97-184 p. Appendix 2 to Report of Commissioner of Fisheries for the fiscal year 1939.

*AR 41. Fishery industries of the United States, 1939, by R. H. Fiedler. 1941. 185-554 p. Appendix 3 to Report of Commissioner of Fisheries for the fiscal year 1940.

*AR 42. Propagation and distribution of food fishes, fiscal year 1940, by Glen C. Leach, M. C. James and E. J. Douglass. 1941. 555-603 p. Appendix 4 to Report of Commissioner of Fisheries for the fiscal year 1940.

CIRCULARS

Cir 1-3. §

Cir 4. A crisis in the haddock fishery, by William C. Herrington. 1941. 14 p., illus.

Cir 5-10. §

*Cir 11. DDT: Its effect on fish and wildlife, by Clarence Cottam and Elmer Higgins. 1946. 14 p.

Cir 12. Propagation of minnows and other bait species by J. R. Dobie, O. L. Meehean, and G. N. Washburn. 1948. 113 p., illus.

Cir 13. §

Cir 14. English and local common names of Philippine fishes, by Albert W. Herre and Agustin F. Umali. 1948. 128 p.

*Cir 15. Effects of DDT and other insecticides on fish and wildlife. Summary of investigations during 1947, by Joseph P. Linduska and Eugene W. Surber. 1948. 19 p.

Cir 16. §

Cir 17. Alaska's fish and wildlife, by Clarence J. Rhode and Will Barker. 1953. 60 p., illus. Supersedes Cir 3, Birds and mammals of Alaska (1942).

Cir 18-19. §

Cir 20. Fresh and frozen fish buying manual. In press.

Cir 21. Survey of fishery activities 1953; a catalogue of current research and management projects pertaining to the sport fisheries of the United States, compiled by the Branch of Federal Aid. 1953. 133 p.

Cir 22. §

Cir 23. Indexes of transportation rates for fishery products, by M. J. Garfield. 1953. 12 p.

Cir 24. Pacific salmon, hatchery propagation and its role in fishery management, by William Hagen, Jr. 1953. 56 p., illus.

Cir 25. This is a salmon hatchery, producing salmon to maintain commercial and sport fisheries. 1953. 2 p.

Cir 26. Survey of sport fishery projects, 1954, compiled in the Branch of Federal Aid. 1954. 143 p.

Cir 27. §

Cir 28. A visit to a Federal fish hatchery. 1954. 8 p., illus.

Cir 29. Composition of cooked fish dishes, proximate analysis of dishes containing fish and shellfish, by Charles F. Lee. 1954. 8 [23] p.

CONSERVATION BULLETINS

CB 1-26. §

*CB 27. Wartime fish cookery, by Elizabeth Fuller Whiteman. 1943. 24 p., illus.

CB 28. Home canning of fishery products, by Norman D. Jarvis and Joseph F. Puncochar. 1946. 31 p., illus.

CB 29-32. §

CB 33. Food from the sea; fish and shellfish of New England, by Rachel L. Carson. 1943. 74 p., illus.

CB 34. Food from home waters: Fishes of the Middle West, by Rachel L. Carson. 1943. 44 p., illus.

CB 35. Fish stocking as related to the management of inland waters, by M. C. James, O. L. Meehean and E. J. Douglass. 1944. 22 p., illus.

CB 36. §

CB 37. Fish and shellfish of the South Atlantic and Gulf Coasts, by Rachel L. Carson. 1944. 45 p., illus.

CB 38. Fish and shellfish of the Middle Atlantic coast, by Rachel L. Carson. 1945. 32 p., illus.

CURRENT FISHERY STATISTICS

CFS 1. Cold storage holdings of fishery products, Aug. 15, 1941. 2 p.

CFS 2. Landings by fishing vessels at certain New England ports, Aug. 1941. 4 l.

CFS 3. Cold storage holdings of fishery products, Sept. 15, 1941. 2 l.

CFS 4. Landings by fishing vessels at certain New England ports, Sept. 1941. 4 l.

CFS 5. Cold storage holdings of fishery products, Oct. 15, 1941. 2 p.

CFS 6. Cold storage holdings of fishery products, Nov. 15, 1941. 2 p.

CFS 7. Landings by fishing vessels at certain New England ports, Oct. 1941. 4 p.

CFS 8. Cold storage holdings of fishery products, Dec. 15, 1941. 2 p.

CFS 9. Landings by fishing vessels at certain New England ports, Nov. 1941. 4 p.

CFS 10. Landings by fishing vessels at certain New England ports. Dec. 1941. 4 p.

CFS 11. Cold storage holdings of fishery products, Jan. 15, 1942. 2 p.

CFS 12. Landings by fishing vessels at certain New England ports, 1941. 7 p.

CFS 13. Lake fisheries, 1940. 5 p.

CFS 14. Landings by fishing vessels at certain New England ports, Jan. 1942. 4 p.

CFS 15. Cold storage holdings of fishery products, Feb. 15, 1942. 2 p.

CFS 16. Fishery products frozen and cold storage holdings of frozen and cured fishery products in the United States and Alaska, 1941. 5 p.

CFS 17. Preliminary statement, Pacific salmon pack, 1941 summary. 4 p.

CFS 18. Landings by fishing vessels at certain New England ports, Feb. 1942. 4 p.

CFS 19. Fisheries of the Chesapeake Bay states, 1940. 3 p.

CFS 20. Cold storage holdings of fishery products, Mar. 15, 1942. 2 p.

CFS 21. Landings by fishing vessels at certain New England ports, 1941. 6 p.

CFS 22. Preliminary statement of canned oyster pack, 1941. 1 p.

CFS 23. Fisheries of the South Atlantic and Gulf States, 1940. 5 p.

CFS 24. Fisheries of the Middle Atlantic States, 1940. 3 p.

CFS 25. Fisheries of the New England States, 1940. 3 p.

CFS 26. Fisheries of the Pacific Coast States, 1940. Rev. 3 p.

CFS 27. Fisheries of the United States and Alaska, 1940. 6 p.

CFS 28. Landings by fishing vessels at certain New England ports. Mar. 1942. 4 p.

CFS 29. Cold storage holdings of fishery products, Apr. 15, 1942. 2 p.

CFS 30. Manufactured fishery products of the United States and Alaska, 1940. 4 p.

CFS 31. Cold storage holdings of fishery products, May 15, 1942. 2 p.

CFS 32. Landings by fishing vessels at certain New England ports, Apr. 1942. 4 p.

CFS 33. Cold storage holdings of fishery products, June 15, 1942. 2 p.

CFS 34. Landings by fishing vessels at certain New England ports, May, 1942. 4 p.

CFS 35. Production of fresh and frozen packaged fish in the United States, 1941. 2 p.

CFS 36. Cold storage holdings of fishery products, July 15, 1942. 2 p.

CFS 37. Landings by fishing vessels at certain New England ports, June 1942. 4 p.

CFS 38. Cold storage holdings of fishery products, Aug. 15, 1942. 2 p.

CFS 39. Landings by fishing vessels at certain New England ports, July 1942. 4 p.

CFS 40. Cold storage holdings of fishery products, Sept. 15, 1942. 2 p.

CFS 41. Landings by fishing vessels at certain New England ports, Aug. 1942. 4 p.

CFS 42. Canned fishery products and byproducts of the United States and Alaska, 1941. 10 p.

CFS 43. Cold storage holdings of fishery products, Oct. 15, 1942. 2 p.

CFS 44. Landings by fishing vessels at certain New England ports, Sept. 1942. 4 p.

CFS 45. Cold storage holdings of fishery products, Nov. 15, 1942. 2 p.

CFS 46. Landings by fishing vessels at certain New England ports, Oct. 1942. 4 p.

CFS 47. Landings by fishing vessels at certain New England ports, Nov. 1942. 4 p.

CFS 48. Cold storage holdings of fishery products, Dec. 15, 1942. 2 p.

CFS 49. Cold storage holdings of fishery products, Jan. 1, 1943. 2 p.

CFS 50. Landings by fishing vessels at certain New England ports, Dec. 1942. 4 p.

CFS 51. Landings by fishing vessels at certain New England ports, 1942. 6 p.

CFS 52. Cold storage holdings of fishery products, Feb. 1, 1943. 2 p.

CFS 53. Landings by fishing vessels at certain New England ports, Jan. 1943. 4 p.

CFS 54. Fisheries of Alaska, 1941. 4 p.

CFS 55. Landings by fishing vessels at certain New England ports, 1942. 7 p.

CFS 56. Cold storage holdings of fishery products, Mar. 1, 1943. 2 p.

CFS 57. Landings by fishing vessels at certain New England ports, Feb. 1943. 4 p.

CFS 58. Cold storage holdings of fishery products, Apr. 1, 1943. 2 p.

CFS 59. Preliminary statement of canned oyster pack, 1942. 1 p.

CFS 60. Preliminary statement, Pacific salmon pack, 1942 summary. 4 p.

CFS 61. Landing by fishing vessels at certain New England ports, Mar. 1943. 4 p.

CFS 62. Vitamin A report, Dec. 1942. 1 p.

CFS 63. Vitamin A report, Jan. 1943. 1 p.

CFS 64. Vitamin A report, Feb. 1943. 1 p.

CFS 65. Cold storage holdings of fishery products, May 1, 1943. 2 p.

CFS 66. Fisheries of the Chesapeake Bay States, 1941. 3 p.

CFS 67. Vitamin A report, Mar. 1943. 1 p.

CFS 68. Manufactured fishery products of the United States and Alaska. 4 p.

CFS 69. Landings by fishing vessels at certain New England ports, Apr. 1943. 4 p.

CFS 70. Cold storage holdings of fishery products, June 1, 1943. 2 p.

CFS 71. Vitamin A report, Apr. 1943. 1 p.

CFS 72. Lake fisheries, 1941. 2 p.

CFS 73. Landings by fishing vessels at certain New England ports, May 1943. 4 p.

CFS 74. Cold storage holdings of fishery products, July 1, 1943. 2 p.

CFS 75. Vitamin A report, May 1943. 1 p.

CFS 76. Vitamin A report, June 1943. 1 p.

CFS 77. Landings by fishing vessels at certain New England ports, June 1943. 4 p.

CFS 78. Fishery products frozen and cold storage holdings of frozen and cured fishery products in the United States and Alaska, 1942. 6 p.

CFS 79. Cold storage holdings of fishery products, Aug. 1, 1943. 2 p.

CFS 80. Vitamin A report, July 1943. 1 p.

CFS 81. Landings by fishing vessels at certain New England ports, July 1943. 4 p.

CFS 82. Production of fresh and frozen packaged fish in the United States, 1942. 2 p.

CFS 83. Cold storage holdings of fishery products, Sept. 1, 1943. 2 p.

CFS 84. Landings by fishing craft at New Bedford, Massachusetts, July 1943. 2 p.

CFS 85. Landings by fishing vessels at certain New England ports, Aug. 1943. 4 p.

CFS 86. Vitamin A report, Aug. 1943. 1 p.

CFS 87. Cold storage holdings of fishery products, Oct. 1, 1943. 2 p.

CFS 88. Vitamin A report, Sept. 1943. 1 p.

CFS 89. Landings by fishing vessels at certain New England ports, Sept. 1943. 4 p.

CFS 90. Fisheries of the United States and Alaska. 6 p.

CFS 91. Cold storage holdings of fishery products, Nov. 1, 1943. 2 p.

CFS 92. Vitamin A report, Oct. 1943. 1 p.

CFS 93. Canned fishery products and byproducts of the United States and Alaska, 1942. 10 p.

CFS 94. Landings by fishing craft at New Bedford, Massachusetts, Aug. 1943. 2 p.

CFS 95. Landings by fishing vessels at certain New England ports, Oct. 1943. 4 p.

CFS 96. Cold storage holdings of fishery products, Dec. 1, 1943. 2 p.

CFS 97. Fisheries of Alaska, 1942. 4 p.

CFS 98. Vitamin A report, Nov. 1943. 1 p.

CFS 99. Landings by fishing vessels at certain New England ports, Nov. 1943. 4 p.

CFS 100. Cold storage holdings of fishery products, Jan. 1, 1944. 2 p.

CFS 101. Landings by fishing craft at New Bedford, Massachusetts, Sept. 1943. 2 p.

CFS 102. Landings by fishing craft at New Bedford, Massachusetts, Oct. 1943. 2 p.

CFS 103. Landings by fishing craft at New Bedford, Massachusetts, Nov. and Dec. 1943. 3 p.

CFS 104. Landings by fishing vessels at certain New England ports, Dec. 1943. 3 p.

CFS 105. Landings by fishing vessels at certain New England ports, 1943. 8 p.

CFS 106. Vitamin A report, Dec. 1943. 4 p.

CFS 107. Cold storage holdings of fishery products, Feb. 1, 1944. 2 p.

CFS 108. Landings of fishery products at New Bedford, Massachusetts, 1942. 2 p.

CFS 109. Landings by fishing vessels at certain New England ports, Jan. 1944. 4 p.

CFS 110. Landings of fishery products at New Bedford, Massachusetts, 1943. 2 p.

CFS 111. Vitamin A report, Jan. 1944. 2 p.

CFS 112. Landings by fishing craft at New Bedford, Massachusetts, Jan. 1944. 2 p.

CFS 113. Cold storage holdings of fishery products, Mar. 1, 1944. 2 p.

CFS 114. Lake fisheries, 1942. 2 p.

CFS 115. Landings by fishing craft at New Bedford, Massachusetts, Feb. 1944. 2 p.

CFS 116. Preliminary statement of canned oyster pack, 1943. 1 p.

CFS 117. Fisheries of the Pacific Coast States, 1941. 2 p.

CFS 118. Landings by fishing vessels at certain New England ports, 1943. 6 p.

CFS 119. Vitamin A report, Feb. 1944. 1 p.

CFS 120. Landings by fishing vessels at certain New England ports, Feb. 1944. 5 p.

CFS 121. Cold storage holdings of fishery products, Apr. 1, 1944. 2 p.

CFS 122. Vitamin A report, Mar. 1944. 2 p.

CFS 123. Landings by fishing vessels at certain New England ports, Mar. 1944. 5 p.

CFS 124. Landings by fishing craft at New Bedford, Massachusetts, Mar. 1944. 2 p.

CFS 125. Cold storage holdings of fishery products, May 1, 1944. 2 p.

CFS 126. Landings by fishing vessels at certain New England ports, Apr. 1944. 6 p.

CFS 127. Vitamin A report, Apr. 1944. 2 p.

CFS 128. Landings by fishing craft at New Bedford, Massachusetts, Apr. 1944. 2 p.

CFS 129. Landings by fishing craft at New Bedford, Massachusetts, 1943. 4 p.

CFS 130. Cold storage holdings of fishery products, June 1, 1944. 2 p.

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CFS 131. Vitamin A report, May 1944. 2 p.

CFS 132. Landings by fishing vessels at certain New England ports, May 1944. 6 p.

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*Doc 1028. Biological survey of the upper Mississippi River with special reference to pollution, by A. H. Wiebe. 1928. 137-167 p. From Bulletin of the Bureau of Fisheries, v. 43, 1927, Part 2.

*Doc 1029. Progress in biological inquiries, 1926, including proceedings of the Divisional Conference, January 4 to 7, 1927, by Elmer Higgins. 1928. 517-681 p., illus. Appendix 7 to the Report of the U. S. Commissioner of Fisheries for 1927.

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*Doc 1099. Relative growth and mortality of the Pacific razor clam (Siliqua patula, Dixon) and their bearing on the commercial fishery, by F. W. Weymouth and H. C. McMillin. 1931. 543-567 p., illus. From Bulletin of the Bureau of Fisheries, v.46, 1930.

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*EC 42. Parasites of fresh-water fishes, comprising some general considerations, by H. S. Pratt. Rev. Feb. 1929. 10 p., illus.

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*EC 51. Sources, preparation, and properties of some algal gelatines, by Irving A. Field. Oct. 1921. 7 p.

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*EC 53. Brine freezing of fish, by Harden F. Taylor. Nov. 1921. 8 p.

*EC 54. Trade in fresh and frozen fishery products and related marketing considerations in Chicago, Ill., by L. T. Hopkinson. Dec. 1921. 21 p.

*EC 55. Trade in fresh and frozen fishery products and related marketing considerations in Minneapolis and Saint Paul, Minn., by L. T. Hopkinson. Feb. 1922. 21 p.

*EC 56. Care and feeding of buffalo fish in ponds, by H. L. Canfield. Dec. 1922. 3 p.

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*FL 20. Canning tuna, by Norman D. Jarvis. June 1943. 7 p.

*FL 21. How to cook the burbot, by Edith E. Hopkins and Catherine M. Ritchie. June 1943. 6 p.

FL 22. Increasing the production of oysters and other shellfish in the United States, by Paul S. Galtsoff. June 1943. 14 p.

FL 23. Earthworms for bait, prepared in the Branch of Game-fish and Hatcheries. Rev. June 1952. 3 p.

*FL 24. List of publications on farm fish ponds, compiled in the Branch of Game-fish and Hatcheries. Rev. Mar. 1948. 6 p.

*FL 25. List of publications on Irish moss (Chondrus crispus), prepared by Victor B. Scheffer. Reissued May 1945. 4 p.

FL 26. Salting river herring (alewives) in Chesapeake Bay, by Norman D. Jarvis and R. W. Hines. May 1945. 4 p.

FL 27. Farm fish ponds and their management, by O. Lloyd Meehean. Rev. Sept. 1945. 9 p.

FL 28. Fish baits; their collection, care, preparation and propagation, compiled in the Branch of Game-fish and Hatcheries. Rev. Mar. 1950. 26 p., illus.

*FL 29. Crab scrap as poultry feed, by John Ruel Manning. Aug. 1943. 3 p.

*FL 30. Preparation of three fishes of the Pacific Coast, shark, shad, and lingcod, prepared in the Branch of Commercial Fisheries. Reissued Sept. 1951. 4 p.

*FL 31. Some South American fish recipes, by Norman D. Jarvis. Reissued May 1948. 9 p.

*FL 32. Consider the fishes, by Reginald H. Fiedler. Sept. 1943. 3 p.

*FL 33. Whalemeat, prepared in the Division of Commercial Fisheries. May 1945. 2 p.

*FL 34. A manual for demonstrating the cooking of carp, by Edith E. Hopkins. Sept. 1943. 10 p.

FL 35. Fish cookery in the open, by W. T. Conn. Reissued Nov. 1945. 27 p.

FL 36. The food value of fish and shellfish, by Hugo W. Nilson. Reissued June 1948. 2 p.

FL 37. Canning Atlantic and Gulf oyster, by Norman D. Jarvis. May 1945. 3 p.

FL 38. Brine-salted herring, by Norman D. Jarvis, Sept. 1943. 2 p.

FL 39. The utilization of echinoderms and of gasteropod mollusks, by H. P. Kjerskog-Agersborg. Oct. 1943. 7 p. In American Naturalist, v. 54, no. 634, Sept.-Oct. 1920.

*FL 40. The transportation of frozen live fishes by Eugene Mir and J. Audigé. Oct. 1943. 5 p., From Bulletin de la Société Centrale d'Agriculture et de Peche, t. 25, Paris, 1913. Translated by Jessie E. Drayton.

FL 41. List of state-owned fish hatcheries and rearing stations, prepared in the Branch of Game-fish and Hatcheries. Rev. Sept. 1954. 2-4 p.

*FL 42. Restoration and management of the New England alewife fisheries with special reference to Maine, by George A. Rounsefell and Louis D. Stringer. Dec. 1943. 33 p.

*FL 43. Care of aquarium fishes, prepared in the Branch of Fishery Biology. Rerun May 1950. 9 p.

*FL 44. How to make bloaters, from the Art of Fish Curing, by "Viking," (R. J. Duthrie) Aberdeen. 1911, 45-46 p. Dec. 1943. 2 p.

FL 45. Brine-cured cod, by Norman D. Jarvis. May 1945. 2 p.

FL 46. Dealers in trout and pondfishes, prepared in the Division of Fish Culture. Rev. Feb. 1944. 7 p. Superseded by Trout and pondfish dealers, compiled by U.S. Dept. of the Interior, Fish and Wildlife Service, published by Sport Fishing Institute, Washington, D. C., Oct. 1952. 14 p.

*FL 47. Fisheries of North America with special refernce to the United States, by R. H. Fiedler. Jan. 1944. 12 p. Reprinted from the Geographical Review, v. 30, no. 2, Apr. 1940.

*FL 48. Striped mullet and their preparation for the table, prepared in the Branch of Commercial Fisheries. reissued Feb. 1952. 4 p.

*FL 49. Otter trawl net for small fishing boats, by B. O. Knake and R. T. Whiteleather. Mar. 1945. 23 p., illus. From Fishery Bulletin of Puerto Rico, v. 9, no. 2, June 1943.

FL 50. Preparation of fresh eastern oysters for market, by S. R. Pottinger. Mar. 1944. 8 p.

FL 51. Brine-salted mullet, by Norman D. Jarvis. Rev. Sept. 1945. 4 p., illus. Replaces Sep no. 24.

FL 52. Planting and marketing oysters in the Pacific Northwest, by Lynn G. McKee. Reissued May 1948. 6 p.

FL 53. Sauces for seafoods, prepared in the Branch of Commercial Fisheries. Reissued July 1948. 4 p.

*FL 54. Scaler boosts fish production, by L. V. Burton. 2 p., illus. Reprinted from Food Industries, Jan. 1944.

FL 55. Breathing in fishes, by James S. Gutsell. Rev. Mar. 1947. 3 p.

FL 56. Fish distribution boat, by Roy D. Noble and C. H. Bennett. Apr. 1944. 4 p., illus.

FL 57. Care of goldfish, prepared in the Branch of Game-fish and Hatcheries. Rev. July 1952. 5 p.

FL 58. Some publications on diseases and parasites of fishes, compiled in the Division of Fishery Biology. Rev. Mar. 1947. 6 p.

FL 59. Construction of a garden fish pool, prepared in the Division of Game Fish and Hatcheries. Oct. 1946. 4 p.

FL 60. Mild curing, pickling, dry salting, and smoking salmon, by Norman D. Jarvis. Reissued Sept. 1948. 13 p.

FL 61. Capture and marketing of garfish (with special reference to those of Louisiana) and recipes for their preparation, prepared in the Division of Fishery Industries. June 1944. 6 p.

*FL 62. Preserving the angler's catch, prepared in the Division of Fish Culture. June 1944. 2 p.

*FL 63. The body oil from menhaden (Brevoortia tyrannus). A. Low temperature crystallization of glycerides. B. Some of the 18 and 20 carbon atom acids, by W. H. Baldwin and L. E. Parks. Reissued June 1944. 4 p. Reprinted from Oil and Soap, June 1943, v. 20, no. 6.

FL 64. Construction and operation of lobster fishing gear, by Frank E. Firth. Reissued Jan. 1950. 14 p., illus.

FL 65. An outlet gate for farm fish ponds, prepared in the Division of Fish Culture. June 1944. 4 p., illus.

FL 66. Preservation and care of fish nets, by Frank E. Firth and Carl B. Carlson. Reissued Dec. 1949. 6 p.

FL 67. The top minnow, Gambusia - the mosquito destroyer. Rev. July 1944. 5 p.

FL 68. Sea nettles or jellyfishes, prepared in the Division of Fishery Biology. July 1944. 4 p.

FL 69. Markets and recipes for fresh-water turtles, prepared by the Educational and Market Development Section, Branch of Commercial Fisheries. Rev. Sept. 1954. 4 p.

FL 70. The treatment of fish diseases, by H. S. Davis. July 1944. 5 p.

FL 71. Edible crabs. Rev. July 1945. 4 p.

FL 72. Culture of hard clams, prepared in the Division of Fishery Biology. July 1944. 2 p.

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FL 74. The American lobster (Homarus americanus), prepared in the Division of Biology. Dec. 1944. 8 p.

FL 75. The Peruvian fisheries, by Reginald H. Fiedler. Reissued Sept. 1952. 13 p., illus. Reprinted from Geographical Review, v. 34, no. 1, Jan. 1944.

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*FL 77. The fur-seal industry of the Pribilof Islands, Alaska, by Ward T. Bower. Rev. July 1945. 8 p.

*FL 78. Historical outline of the canning of fishery products, by Norman D. Jarvis. Reprinted from RR 7. 1-13 p., illus.

FL 79. Operations involved in canning, by Norman D. Jarvis. Reprinted from RR 7, 1944. 93-111 p.

FL 80. Pacific salmon, prepared by R. W. Clough, E. D. Clark and Norman D. Jarvis. Reprinted from RR 7. 117-145 p., illus.

FL 81. Sardines, by Norman D. Jarvis. Reprinted from RR 7. 147-174 p., illus.

FL 82. Tuna, prepared by O. W. Lang and N. D. Jarvis. Reprinted from RR 7. 175-198 p., illus.

FL 83. Mackerel, by Norman D. Jarvis. Reprinted from RR 7. 199-224 p., illus.

FL 84. Shellfish, by Norman D. Jarvis. Reprinted from RR 7. 225-257 p., illus.

FL 85. Crustacea, by Norman D. Jarvis. Reprinted from RR 7. 259-283 p., illus.

FL 86. Specialty products, by Norman D. Jarvis. Reprinted from RR 7. 285-297 p., illus.

FL 87. Fish roe and caviar, by Norman D. Jarvis. Reprinted from RR 7. 299-308 p.

FL 88. Canned products hermetically sealed but not processed, by Norman D. Jarvis. Reprinted from RR 7. 309-322 p.

FL 89. Spoilage in canned fishery products, by Norman D. Jarvis. Reprinted from RR 7. 323-354 p., 89-93 p.

FL 90. Canned fishery products as food, by Norman D. Jarvis. Reprinted from RR 7. 355-362 p., illus.

FL 91. Turtles in the home aquarium, prepared in the Branch of Game-fish and Hatcheries. Rev. Feb. 1951. 2 p.

FL 92. Fishways for small streams, by George A. Rounsefell. Oct. 1944. 6 p., illus.

*FL 93. New foods from salmon cannery waste, by Lyle Anderson and Frank Piskur. Oct. 1944. 2 p., illus. Reprinted from Apr. 1944 issue of the Pacific Fisherman.

FL 94. Judging the quality and freshness of fish by organoleptic methods, by Maurice E. Stansby. Reissued Feb. 1952. 6 p.

*FL 95. The latent fisheries of Washington and Alaska, by Wilbert McLeod Chapman. Oct. 1944. 9 p. From California Fish and Game, v. 28, no. 4, Oct. 1942.

*FL 96. Biological positions in the Division of Fishery Biology. Oct. 1944. 4 p.

FL 97. Fish culture as a livelihood, prepared in the Branch of Game-fish and Hatcheries. Rev. Feb. 1954. 3 p.

FL 98. Loch Leven trout (Salmo trutta levenensis), by George A. Rounsefell. Sept. 1946 (Rev.) 1 p.

FL 99. Extraction of vitamin A from dogfish livers, by R. W. Harrison and Wm. S. Hamm. Oct. 1944. 2 p. From Pacific Fisherman 39(9) July 1941.

*FL 100. Determination of the age of fishes, prepared in the Division of Fishery Biology, Nov. 1944. 4 p.

*FL 101. A survey of academic qualifications for fishery biologists and of institutional facilities for training fishery biologists, by H. J. Deason. p. 128-142. Reprinted from v. 70 (1940) Transactions of the American Fisheries Society.

FL 102. Frog culture and the frog industry, prepared in the Division of Fishery Biology. Rev. Dec. 1944. 4 p.

*FL 103. Suggestions for storing frozen fish, by J. M. Lemon. Re-issued Mar. 1947. 4 p.

FL 104. The canning of Maine sea herring, by Buell W. Blair, E. J. Cameron and Norman D. Jarvis. Dec. 1944. 2 p. Replaces Sep. 7.

FL 105. §

FL 106. Basic recipes for cooking fish, by Rose G. Kerr. Reissued Sept. 1949. 7 p.

FL 107. Opportunities for small business in the fisheries of the Pacific Northwest and Alaska, by M. E. Stansby. Feb. 1945. 6 p.

*FL 108. The relative productivity and value of the fisheries of the United States and Alaska, by Bob Finley. Rev. Apr. 1952. 10 p., illus.

*FL 109. The fisheries of the world, by Arthur M. Sandberg. Feb. 1945. 8 p., illus. Supersedes Sep 70.

*FL 110. The steelhead and rainbow trouts, prepared in the Division of Fishery Biology. Mar. 1945. 2 p.

*FL 111. Fighting fibers and comparable values of fibers for use in commercial fisheries, by Frank E. Firth. Feb. 1945. 6 p. Supersedes Sep 54 and Sep 73.

FL 112. Mortality of fishes in fresh water ponds and lakes, prepared in the Division of Fishery Biology. Mar. 1945. 2 p.

FL 113. Tagging and marking fish, by Lawrence N. Kolloen. July 1945. 5 p.

*FL 114. Crustaceans as food for fishes in fish culture, prepared in the Division of Fishery Biology. Mar. 1945. 4 p.

FL 115. Handling fresh fish, by Maurice E. Stansby. Reissued Feb. 1952. 4 p.

FL 116. Composition of fish, by M. E. Stansby. Reissued Dec. 1953. 16 p.

*FL 117. Positions in the Division of Commercial Fisheries. Rev. Feb. 1946. 6 p.

FL 118. Agar, agaroids, and the American agar industry, by Horace H. Selby. Reissued June 1948. 4 p.

*FL 119. Summary of the game fish laws for 1945, prepared in the Division of Game-fish and Hatcheries. Apr. 1945. 15 p.

*FL 120. Dehydration of fishery products, by Maurice E. Stansby. Rev. Oct. 1946. 7 p.

*FL 121. Observations on the shark fishery in the central part of the Gulf of California with records of vitamin potency of liver oils and with keys to the identification of commercially important sharks, by Lionel A. Walford. Apr. 1945. 6 p., illus. Supersedes Sep. 68.

FL 122. Smoking lake herring, whitefish, lake trout and carp, by Norman D. Jarvis. Reissued June 1949. 6 p., illus.

FL 123. Sharks, and skates or rays, by Samuel F. Hildebrand. Rev. Mar. 1947. 4 p.

FL 124. Dermatitis in the fish industry, by Louis Schwartz and Irving R. Tabershaw. Reissued Dec. 1949. 7 p. Reprinted from Journal of Industrial Hygiene and Toxicology, v. 27, no. 1, Jan. 1945.

FL 125. How to make and mend fish nets. Reissued Jan. 1952. 7 p., illus. Reprinted from Atlantic Fisherman, Feb. 1945.

FL 126. Fish reduction processes, by Charles Butler. Rev. Apr. 1949. 16 p., illus.

FL 127. Eel fishing and eel pots, by Frank E. Firth. July 1945. 9 p., illus.

FL 128. Refrigerated locker storage of fish and shellfish, by Martin Heerdt, Dorris L. Bucher and Maurice E. Stansby. Rev. June 1949. 20 p., illus.

FL 129. The Pacific sardine fishery, prepared by the staff of the South Pacific Section of the Division of Fishery Biology. Rev. May 1947. 6 p.

FL 130. Rains of fishes, toads, and frogs, prepared in the Division of Fishery Biology. July 1945. 2 p.

FL 131. Crayfish, prepared in the Division of Fishery Biology. July 1945. 7 p.

FL 132. Structure and senses of fish, by Ralph Hile. Feb. 1949. 13 p., illus.

FL 133. Catfishes, prepared in the Division of Fishery Biology. July 1945. 3 p.

FL 134. The black drum (Pogonias cromis), prepared in the Division of Fishery Biology. July 1945. 2 p.

FL 135. Guide to commercial shark fishing in the Caribbean area, prepared by the Anglo-American Caribbean Commission. 1945. 149 p., illus. Republication of booklet originally published by the Anglo-American Caribbean Commission, Mar. 1945.

FL 136. Dry-salting mullet, red drum (channel bass) and kingfish (king mackerel) by Norman D. Jarvis. Sept. 1945. 7 p., illus.

*FL 137. Summary of trout stocking experiments, by Ancil D. Holloway. Aug. 1945. 16 p.

FL 138. Some time and labor saving techniques in vitamin A and oil analyses, by F. B. Sanford, G. C. Bucher and W. Clegg. Reissued June 1948. 3 p., illus.

*FL 139. WFA net weights and conversion factors for fishery products summarized. July 1945. 3 p. Supersedes Sep 75.

*FL 140. 'Fish poisoning' and its prevention, by O. W. Lang. Aug. 1945. 3 p. Taken from Pacific Fisherman, v. 30, no. 7, June 1932.

FL 141. Drill sampling device for fish livers. 1. Constructional details, by L. G. McKee, F. B. Sanford and G. C. Bucher. Aug. 1945. 6 p., illus. Supersedes Sep 84.

*FL 142. Spiny lobster, by John C. Pearson and W. W. Anderson. Rev. Nov. 1946. 4 p.

*FL 143. Preparation of fish for storage in refrigerated lockers, by Leo Young. Sept. 1945. 13 p., illus. Reprinted from Locker Operator, Aug. 1945.

*FL 144. Precooked frozen fish preparations, by Kathryn L. Osterhaug and Dorris L. Bucher. Sept. 1945. 7 p., illus. Reprinted from Food Packer, Aug. 1945.

FL 145. Pearl culture, prepared in the Branch of Fishery Biology. Reissued Jan. 1950. 3 l.

FL 146. Preliminary report on the use of DDT as an insecticide in the fishery industries, by Leslie A. Sandholzer and A. W. Lindquist. Oct. 1945. 7 p.

FL 147. List of federal fish-cultural stations, prepared in the Branch of Game-fish and Hatcheries. Rev. Nov. 1954. 5 p.

FL 148. Improved fish trap for taking spawners, prepared in the Division of Game-fish and Hatcheries. Feb. 1946. 2 p., illus.

FL 149. Unemployment insurance information for fishermen and allied workers, Chesapeake Bay states, Maryland and Virginia, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Nov. 1945. 6 p.

FL 150. Unemployment insurance information for fishermen and allied workers, middle Atlantic states, New York, New Jersey, Pennsylvania, Delaware, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Nov. 1945. 13 p.

FL 151. Unemployment insurance information for fishermen and allied workers, New England states, Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Dec. 1945. 15 p.

FL 152. Unemployment insurance information for fishermen and allied workers, South Atlantic states, North Carolina, South Carolina, Georgia, Florida, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Dec. 1945. 13 p.

FL 153. Unemployment insurance information for fishermen and allied workers, Pacific Coast states, Washington, Oregon, California, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Dec. 1945. 9 p.

FL 154. Unemployment insurance information for fishermen and allied workers, Gulf states, Alabama, Mississippi, Louisiana, Texas, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Dec. 1945. 11 p.

FL 155. Dry ice refrigeration of fresh fish fillets, by E. F. Kapalka and R. H. Flowers. Dec. 1945. 4 p., illus. Supersedes Sep 32.

FL 156. The commercial importance of seaweed gums in the United States, by Victor B. Scheffer. Nov. 1945. 5 p. Supersedes Sep 23.

FL 157. Japanese fishing industry, extracted by the Office of the Chief of Naval Operations from information in the Navy Department files. Dec. 1945. 21 p.

*FL 158. Some methods of fishing sharks, extracted from "Preliminary report of the shark investigations at Big Pine, Fla." 1924, by Elmer Higgins. Dec. 1945. 2 p.

*FL 159. Condensed fish press water and fish liver meal in chick rations, by E. P. Berry, C. W. Carrick, Roy E. Roberts, and S. M. Hauge. Dec. 1945. 7 p. Reprinted from Poultry Science, v. 24, no. 3, May 1945.

FL 160. Partial list of fishery periodicals, by Ruth V. Keefe. Rev. Dec. 1952. 9 p.

*FL 161. Ridding ponds of turtles, prepared in the Division of Fishery Biology. Dec. 1945. 2 p., illus.

FL 162. Aquatic biology and oceanography; a selected list of books, compiled in the Library. Rev. Nov. 1952. 12 p.

*FL 163. Culture and care of minnows, shiners, and bait fish, prepared in the Division of Fishery Biology. Mar. 1946. 4 p.

FL 164. Alligators, prepared in the Division of Fishery Biology. Feb. 1946. 2 p.

*FL 165. Some tropical aquarium fishes, prepared in the Division of Fishery Biology. Mar. 1946. 16 p. Superseded by FL 411.

FL 166. The pikes, by John Van Oosten. Reissued Feb. 1953. 7 p.

*FL 167. Fishing vessels of New England and New York City, 1945, by H. M. Bearse and W. F. Royce. Jan. 1946. 43 p.

FL 168. Commercial fishery laws and regulations by Ruth V. Keefe. Rev. July 1954. 8 p.

FL 169. Natural history and methods of controlling the starfish, Asterias forbesi (Desor), prepared in the Division of Fishery Biology. Mar. 1946. 7 p.

FL 170. Sponge production and international sponge trade of the United States, by Richard A. Kahn and Lois B. Sandven. Jan. 1946. 8 p., illus.

FL 171. Unemployment insurance information for fishermen and allied workers, Great Lakes states, Minnesota, Wisconsin, Illinois, Michigan, Ohio, compiled by the Economics and Cooperative Marketing Section, Division of Commercial Fisheries. Dec. 1945. 18 p.

FL 172. Compliance with the Federal Food, Drug and Cosmetic Act in the marketing of fishery products, by Albert C. Hunter. Jan. 1946. 3 p. Supersedes Sep 26.

FL 173. Agar and other seaweed gums: a summary of data on chemical and physical properties, by Leonard S. Stoloff and Charles F. Lee. Mar. 1946. 8 p., illus. Supersedes Sep 44.

FL 174. Stream pollution hazards of wood pulp mill effluents, by B. A. Westfall. Reissued Jan. 1950. 9 p.

FL 175. Striped bass (Roccus saxatilis), prepared in the Division of Fishery Biology. Mar. 1946. 4 p.

FL 176. Atlantic Salmon (Salmo salar). Rev. Mar. 1954. 6 p.

FL 177. Progress report on tests in commercial fisheries of cordages made from various fibers. Reissued Mar. 1946. 7 p. Prepared on May 15, 1944, by Frank E. Firth.

FL 178. Partial list of fishing boat builders, prepared in the Branch of Commercial Fisheries. Rev. Feb. 1953. 4 p.

*FL 179. The shad, Alosa sapidissima. Mar. 1946. 5 p.

*FL 180. Home canning of fish, by Norman D. Jarvis. Rev. July 1948. 13 p.

FL 181. Fish can be stored in refrigerated lockers with other foods, by Martin Heerdt, Jr. Mar. 1946. 3 p.

FL 182. Reproduction in fishes, prepared in the Division of Fishery Biology. Apr. 1946. 5 p.

*FL 183. Some publications on corals, prepared in the Division of Fishery Biology. Apr. 1946. 1 p.

*FL 184. The Chesapeake Bay soft crab industry, by Prentiss W. Evans. Rev. Apr. 1946.

FL 185. Keeping quality of east coast crab meat in fiberboard containers and in tin cans, by S. R. Pottinger. May 1946. 4 p., illus. Supersedes Sep 33.

*FL 186. "Non-gilling" fish sorter, prepared in the Division of Game Fish and Hatcheries. May 1946. 2 p., illus.

FL 187. The oyster and the oyster industry in the United States, by Paul S. Galtsoff. Rerun Mar. 1949. 10 p.

*FL 188. The tuna industry of southern Spain, by T. E. A. Classen. July 1946. 28 p.

FL 189. Icing of fish at sea, by Boris O. Knake. July 1946. 3 p., illus. Supersedes Sep 110.

FL 190. Turtle trapping, prepared in the Branch of Game-fish and Hatcheries. Rev. Aug. 1951. 5 p., illus.

*FL 191. Dealers in bait fishes, prepared in the Division of Game-fish and Hatcheries. July 1946. 3 p. Superseded by Bait fish wholesale dealers and producers, compiled by U.S. Dept. of the Interior, Fish and Wildlife Service, published by Sport Fishing Institute, Washington, D. C., Oct. 1952. 8 p.

*FL 192. Gloucester - three centuries a fishing port, by Homer Haberland. Aug. 1946. 5 p., illus. Supersedes Sep 138.

FL 193. Partial lists of dealers in goldfish, aquarium fishes, plants and accessories, compiled in the Branch of Game-fish and Hatcheries. Rev. May 1949. 5 p.

FL 194. Recipes for Pacific rockfish, by Kathryn L. Osterhaug. Sept. 1946. 2 p.

FL 195. Partial list of manufacturers of fishing gear and accessories, compiled in the Branch of Commercial Fisheries. Rev. Sept. 1952. 8 p.

FL 196. Smoking of herring, by Norman D. Jarvis. Reissued July 1949. 10 p.

FL 197. Fishery statistics, by C. E. Peterson. Rev. Feb. 1952. 12 p.

FL 198. Haddock (Melanogrammus aeglefinus), by Howard A. Schuck. Rev. Sept. 1947. 10 p.

FL 199. New rig for high opening otter trawl, by Division of Commercial Fisheries. Oct. 1946. 1 p., illus.

*FL 200. List of fishery leaflets 1-200, compiled by Barbara B. Aller. Jan. 1947. 13 p.

FL 201. Studies of the fecal streptococci, by Charles E. Winter and Leslie A. Sandholzer. Oct.-Nov. 1946. 9 p.

FL 202. Pacific salmon -- succulent and savory, by Kathryn L. Osterhaug. Reissued Aug. 1950. 6 p. Reproduced through the courtesy of Better Food, Jan. 1947.

FL 203. Quick-freezing technique. Mr. H. W. Dunsford, Associate Member, presented the following paper at a meeting of the Institute of Refrigeration (Empire House, St. Martin's-le-Grand, London, E. C. 1) held at the Institution of Mechanical Engineers, on December 12th, 1945. Reissued June 1948. 5 p. From Modern Refrigeration, Dec. 20, 1945.

FL 204. A cardboard smokehouse, by Walter A. Rust. Reissued Feb. 1954. 4 p., illus. Supersedes Sep 141.

*FL 205. Field method for determination of the oil content of fish livers, by F. Bruce Sanford, Manuel Cantillo and Glenn C. Bucher. Nov. 1946. 3 p. Supersedes Sep 98.

FL 206. Certain aspects of the German fishing industry. Report 1 - Fish processing machinery...abstracted from Bios Final Report no. 493, Item no. 22. Dec. 1946. 7 p.

FL 207. Certain aspects of the German fishing industry. Report 2 - Quick freezing and cold storage of fish...abstracted from Bios Final Report no. 493, Item no. 22. Dec. 1946. 7 p., illus.

FL 208. Certain aspects of the German fishing industry. Reprt 3 - Smoke curing of fish...abstracted from Bios Final Report no. 493, Item no. 22. Dec. 1946. 5 p.

FL 209. Certain aspects of the German fishing industry. Report 4 - The preservation of fish by canning and related processes...abstracted from Bios Final Report no. 493, Item no. 22. Dec. 1946. 4 p.

FL 210. Certain aspects of the German fishing industry. Report 5 - "Wiking Eiweiss" ...abstracted from Bios Final Report no. 493, Item no. 22. Dec. 1946. 7 p.

FL 211. Certain aspects of the German fishing industry. Report 6 - Institute for the utilization of fish of the federal fisheries agency...abstracted from Bios Final Report no. 493, Item no. 22. Dec. 1946. 3 p.

FL 212. A rapid test for vitamin A stability, by F. B. Sanford, R. W. Harrison, and M. E. Stansby. Dec. 1946. 3 p., illus. Supersedes Sep 129.

FL 213. Wrapping materials for frozen fish, by Martin Heerdt, Jr. Jan. 1947. 1 p., illus. Supersedes Sep 148.

FL 214. Fish refrigeration, by J. M. Lemon. Reissued June 1948. 21 p., illus. Reprinted from Refrigerating Data Book, Applications volume, 1946.

FL 215. Outlook for production, distribution, and marketing in the fisheries and related industries in 1947. A summary of factors bearing on the fisheries, prepared in the Division of Commercial Fisheries. Mar. 1947. 21 p., illus.

FL 216. Diamond-back terrapin culture, by Samuel F. Hildebrand and Herbert F. Prytherch. Mar. 1947. 6 p.

FL 217. Aquatic plant control with 2, 4-D, by Eugene W. Surber. Rerun Nov. 1948. 6 p.

*FL 218. List of books on angling and fishery equipment, prepared in the Division of Game-fish and Hatcheries. Oct. 1947. 7 p.

*FL 219. Recipes used in the fish cookery demonstrations, South Atlantic states, by Jean Burtis. Mar. 1947. 3 p.

*FL 220. Glossary of Japanese fisheries terms, prepared by Richard S. Croker. Mar. 1947. 40 p. Reproduction of Report no. 63, General Headquarters, Supreme Commander for the Allied Powers, Natural Resources Section, Tokyo, 1946.

FL 221. Temperature and fishes, by M. M. Ellis. Reissued Apr. 1952. 4 p.

FL 222. Disease control in hatchery fish, by Frederic F. Fish. Mar. 1947. 10 p., illus.

FL 223. Commercial clams of the Pacific Coast of the United States, by V. L. Loosanoff. Apr. 1947. 7 p.

*FL 224. Important products in the canned and frozen fish trade, prepared in the Division of Commercial Fisheries. Apr. 1947. 17 p.

FL 225. Gear used in the sea scallop fishery, by William F. Royce. Apr. 1947. 5 p., illus. Supersedes Sep. 157.

FL 226. How oil and vitamin A are determined in fish livers, by F. B. Sanford and G. C. Bucher. Rev. June 1948. 3 p., illus.

FL 227. Fishing industry of Ecuador, by Hugo W. Alberts, Apr. 1947. 5 p. American Consulate General Report no. 97, Guayaquil, Ecuador, Nov. 1, 1946.

FL 228. Fisheries in St. Lucia, British West Indies, by Henry L. Taylor. Apr. 1947. 2 p. American Consulate Report no. 54, St. George's, Grenada, British West Indies, Mar. 27, 1947.

FL 229. Operation fisheries in Japan, address by Reginald H. Fiedler at the Fishery Products Conference of the National Canners Association in Convention at Atlantic City, N. J., Jan. 20, 1947. Apr. 1947. 8 p., illus.

FL 230. The Japanese salmon industry compiled by Capt. Verne W. Broadbent. Mar. 1947. 12 p., illus. Supersedes Sep 143. A reprint of Report no. 31, Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers, Tokyo, 1946.

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FL 231. The sea urchin fishery, by Leslie W. Scattergood. May 1947. 2 p.

FL 232. Fishery technology abstract card system, by M. E. Stansby and K. L. Osterhaug. Rev. Oct. 1950. 20 p.

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FL 418. Food fishes with fins and scales, the anatomy of fishes in its bearing on the requirements of certain religious dietary regulations, with a note on the source of cod and other liver oils, by Isaac Ginsburg. Aug. 1954. 9 p. Revision of FL 8.

FL 419. §

FL 420. Florida's red tide problem, prepared by Edna N. Sater. Nov. 1954. 11 p., illus.

FL 421. United States foreign trade in edible fishery products, 1949-53, by Arthur M. Sandberg and Ruth L. Dunavant. Oct. 1954. 44 p., illus.

INVESTIGATIONAL REPORTS

*IR 1. The menhaden industry, by Roger W. Harrison. 1931. 113 p., illus.

*IR 2. Studies on the nutritive value of fish meals, by Esther Peterson Daniel and E. V. McCollum. 1931. 19 p., illus.

*IR 3. Vitamin D in menhaden fish oils, by John Ruel Manning, E. M. Nelson and Chester D. Tolle, 1931. 5 p., illus.

*IR 4. Commercial production of menhaden fish oil for animal feeding, by Roger W. Harrison and S. R. Pottinger. 1931. 11 p.

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*MDL 49. Partial list of buyers of fresh and processed fish for chain store companies operating in Virginia, North Carolina, South Carolina and Georgia. Apr. 1949. 3 p.

*MDL 50. State directors, Production and Marketing Administration, U. S. Department of Agriculture. Oct. 1946. 4 p.

*MDL 51. Officials of refrigerated locker plant associations, state and national. Rev. Oct. 1950. 4 p.

*MDL 52. State school lunch supervisors. Mar. 1947. 4 p.

MDL 53. Nevada refrigerated locker plants. Rev. Nov. 1950. 1 p.

MDL 54-59. §

MDL 60. Partial list of inland wholesale dealers in fishery products, compiled by Harry E. Timmis and Cyrus H. Chilton. Rev. Mar. 1951. 53 p.

MDL 61. Suggestions for institutional purchasers of fishery products, by Clarence R. Lucas. Mar. 1950. 4 p.

PROGRESSIVE FISH CULTURIST

*PFC 1, Dec. 1934.
A. Growth, by C. M. McCay. 2-7 p.

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A. Hatchery records and accounting, by M. C. James. 1-4 p.
B. Methods for counting small fish in hatcheries, by A. C. Taft. 5-7 p.

*PFC 3, Feb. 1935.
A. The microscope in the hatchery, by Frederic F. Fish. 1-7 p.

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A. Practical methods of feeding various classes of hatchery foods with a minimum loss, by R. F. Lord. 1-5 p.

*PFC 5, Apr. 1935.
A. The bacterial diseases of fish, by Frederic F. Fish. 1-9 p.

*PFC 6, May 1935.
A. The protozoan diseases of hatchery fish, by Frederic F. Fish. 1-4 p.

*PFC 7, June 1935.
A. The production of small-mouth bass under controlled conditions, by T. H. Langlois. 1-7 p.

*PFC 8, July 1935.
A. Production of bass fry, by Eugene W. Surber. 1-7 p.
B. The Bureau of Fisheries' Disease Service, by Frederic F. Fish. 9-12 p.

*PFC 9, Aug. 1935.
A. Better stocking methods by W. M. Keil. 1-6 p.
B. Cheaper trout foods, by H. S. Davis. 7-10 p.

*PFC 10, Sept. 1935.
A. Natural food of trout, by P. R. Needham. 1-12 p.
B. Fish culture in Indiana, by A. E. Andrews. 12-15 p.

*PFC 11, Oct. 1935.
A. The celebrated case of hatchery trout vs. average angler: Are hatchery trout inferior to wild trout?, by Russell F. Lord. 1-9 p.
B. Digestion in the stomachs of trout, by C. M. McCay. 9-11 p.
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*PFC 12, Nov. 1935.
A. Notes on certain features of a program of fish culture, by J. O. Snyder. 1-8 p.

*PFC 13, Dec. 1935.
A. Improvement of trout brood stock through selective breeding, by H. S. Davis. 1-6 p.
B. Conflicting classification of game fishes and the status of the steelhead trout. 7-10 p.

*PFC 14, Jan. 1936.
A. The role of fish-eating birds, by Clarence Cottam and F. M. Uhler. 1-14 p.
B. Fish and fish culture in modern Europe, by C. M. McCay. 15-18 p.

*PFC 15, Feb. 1936.
A. Proposals for a solution of the fishery conservation problem, by Frank T. Bell. 1-8 p.

*PFC 16, Mar. 1936.
A. Some factors controlling largemouth bass production, by Otis Lloyd Meehean. 1-6 p., illus.
B. Rat control in the hatchery, by W. J. Hamilton, Jr. 6-7 p. Reprinted from Fish Culture, New York State Conservation Dept., v.1, no.5, Dec. 1935.
C. European origins, by Frederic F. Fish. (Founders of fish culture) 8-10 p.

*PFC 17, Apr. 1936.
A. The culture of daphnia, by Eugene W. Surber. 1-6 p. Revised by FL 331.
B. The use of dry foods in the diet of rainbow trout and results of overfeeding, by Charles O. Hayford and H. S. Davis. 7-10 p.
C. Phosphorous and calcium in the eggs and bodies of trout, by C. M. McCay. 10-15 p.

*PFC 18, May 1936.
A. A national freshwater fish cultural policy, by J. A. Rodd. 1-4 p.
B. Care of fingerling trout and salmon, by W. M. Keil. 4-7 p.
C. The use of malachite green as a fish fungicide and antiseptic, by Fred J. Foster and Lowell Woodbury. 7-9 p.
D. Seth Green - A historical note on a pioneer in fish culture, by Emeline Moore. (Founders of fish culture) 10-12 p.

*PFC 19, June 1936.
- A. Processing of fishery products into fish food, by Lauren R. Donaldson and Fred J. Foster. 1-6 p.
- B. "The role of fish-eating birds" - A reply, by Clarence R. Lucas. 7-10 p.
- C. The Michigan creel census as an aid to the hatchery man, by R. W. Eschmeyer. 11-14 p.

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- A. Effects of pollution on fish, by M. M. Ellis. 1-4 p.
- B. Legislation proposed in the 74th Congress for the abatement of water pollution, by Elmer Higgins. 5-10 p.
- C. Notes on feeding the freshwater shrimp, Gammarus, to rainbow trout, by Leo Erkkila. 10-12 p.
- D. Experiments with marked rainbow trout, by Russell F. Lord. 12-15 p.

*PFC 21, Aug. 1936.
- A. Circular rearing pools for trout and bass, by Eugene W. Surber. 1-14 p. illus.
- B. History and present activities of the Michigan Institute for Fisheries Research, by A. S. Hazzard. 14-16 p.
- C. Samuel Wilmot, pioneer Canadian fish culturist, by J. A. Rodd. (Founders of fish culture) 16-18 p.

*PFC 22, Sept. 1936.
- A. Spawntaking operations, by W. M. Keil. 1-6 p.
- B. Concrete ponds versus dirt ponds; a symposium of opinion. 10-15 p.
- C. An egg handling experiment, by Ralph P. Silliman. 15-17 p.

*PFC 23, Oct. 1936.
- A. Age determination of fish from scales; method and application to fish cultural problems, by Ralph Hile. 1-5 p., illus.

*PFC 24, Nov. 1936.
- A. A report of four years experience with fin rot and some remarks on octomitiasis, by Alice Wright. 1-26 p.

*PFC 25, Dec. 1936.
- A. Selecting and developing a brood stock of trout, by W. M. Keil. 1-4 p.
- B. A study of sockeye salmon propagation methods in British Columbia, by R. E. Foerster. 4-6 p.
- C. Charles Grandison Atkins, a pioneer who blazed the trails, by William C. Kendall. (Founders of fish culture) 12-17 p.

*PFC 26, Jan. 1937.
- A. Discussing the problem of the propagation of Pacific salmon, by R. E. Foerster. 1-6 p.
- B. Simple methods of measuring flow of water, by A. L. Anderson. 6-13 p., illus.

*PFC 27, Feb. 1937.
- A. Cold storage plants at Oregon trout hatcheries, by Matt L. Ryckman. 1-3 p.
- B. Notes on the use of kelp meal in the diets of young salmon, by L. R. Donaldson and Fred J. Foster. 3-7 p.
- C. A gill disease of the smallmouth blackbass, by H. S. Davis. 7-11 p.

*PFC 28, Mar. and Apr. 1937.
- A. Conservation progress by the Bureau of Fisheries, by Frank T. Bell. 1-7 p.
- B. The artificial propagation of the commercial species of fish of the Great Lakes, by John Van Oosten. 8-15 p.
- C. Results of experimental bass studies, by E. W. Surber and J. S. Gutsell. 16-17 p.
- D. Dwight Lydell, 1861-1927, by Jacob Reighard. (Founders of fish culture) 26-31 p.

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- A. New York's feeding records and hatchery production in 1936, by Charles R. Deuel. 1-10 p.
- B. A new and successful method of sealing fish ponds, by Alvin R. Cahn. 12-13 p.
- C. Mortality of hatchery trout, Great Smoky Mountains National Park, by Willis King. 14-17 p.
- D. Experiments in pond rearing of trout on natural foods, by P. R. Needham and R. C. Lewis. 18-24 p.
- E. Richard Nettle, first Canadian fish culturist, by J. A. Rodd. (Founders of fish culture) 25 p.

*PFC 30, June 1937.
- A. Observations on the nutrition of trout, by C. M. McCay. 1-24 p.
- B. The influence of natural conditions on the geographic distribution of the Pacific salmon, by F. A. Davidson and S. J. Hutchinson. 24-34 p., illus.
- C. Feeding methods for bass at Fairport, Ia., station, by Leslie H. Bennett. 34-35 p.
- D. Feeding Montana grayling fry, by Harlan E. Johnson. 35-36 p.

*PFC 31, July 1937.
- A. Fish culture is big business in the United States, by Swepson Earle. 1-29 p., illus.
- B. Glimpses of fishery biology and fish culture in Europe. 1 - The Scandinavian countries, by William E. Ricker. 29-33 p.
- C. Relation of size at release to proportionate return of hatchery-reared coho (silver) salmon, by George B. Kelez. 33-36 p.
- D. Shocking the fish, by John Carl and J. R. Hodgson. 36-38 p.

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- A. The use of oat flour combined with salmon meal in the diet of fingerling silver salmon (Oncorhynchus kisutch), by Lauren R. Donaldson and Fred J. Foster. 1-6 p., illus.
- B. Concrete, by David C. Haskell. 6-10 p.
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- F. Teaching baby small mouth and baby large mouth bass to take artificial food, by John L. Brass. 17-20 p.

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- A. Goofy business: Is fishery conservation businesslike? By Russell F. Lord. 1-8 p.
- B. Fertilization of fish ponds in Czechoslovakia, by Edward B. Lawson. 8-13 p.
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- A. The fish-culturist's library, by Albert S. Hazzard. 1-6 p.
- B. Chlorine treatment of bacterial fin rot of trout, by Frank H. Connell. 6-9 p.
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- A. Fish management in the Pisgah National Game Preserve, by William M. Keil. 1-9 p., illus.
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- A. Pond rearing of wall-eyed pike, by E. B. Speaker. 1-6 p., illus.
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- C. Notes on warm-water fish culture, by C. F. Culler. 19-24 p.

*PFC 37, Apr. 1938.
- A. Notes on the introduction of Mexican trout, by Paul R. Needham. 1-10 p., illus.
- B. Meat diet supplements, and their effect on growth and health of fingerling trout, by Earl W. Stiles and Howard C. Russ. 10-16 p.
- C. A creel census as an aid to a better fish stocking program, by Harry A. Hanson. 17-19 p.

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- A. Practical pH determinations, by M. M. Ellis. 1-4 p.
- B. Cobequid hatchery - fish production in Second River, and a new method of disease control, by R. H. M'Gonigle and M. W. Smith. 5-11 p., illus.
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- D. Where do we go from here?, by Ralph W. Young. 14-18 p.

*PFC 39, June - July 1938.
- A. Treat - think - and be wary, for tomorrow they may die; some advice on the prevention and treatment of fish diseases, by Frederic F. Fish. 1-9 p.
- B. Soldering and sheet-metal work for hatcheries, by Nathan B. Fruchter. 9-16 p., illus.
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- D. Wisconsin lakes and fish investigations, by Chancey Juday. 18-21 p.

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- A. The development of a bony fish, by Archie Norman Solberg. 1-19 p., illus.
- B. Comparative feeding values of some of the meals fed to fish, by L. R. Donaldson and Fred J. Foster. 20-23 p., illus.
- C. Effect of fertilizers on plankton production and on fish growth in a Wisconsin lake, by C. Juday, C. L. Schloemer and Clarence Livingston. 24-27 p., illus.
- D. Trout production in Fish Lake, Umpqua National Forest - 1937, by P. R. Needham and E. P. Cliff. 28-40 p., illus.

*PFC 41, Oct. 1938.
- A. Developing trout and salmon fishing in lakes, by W. M. Keil. 1-8 p.
- B. A classification of Minnesota lakes for fish propagation, by Samuel Eddy. 9-13 p.
- C. Why a well planned fish cultural program is necessary, with comments on transporting and stocking fish, by Charles S. MacIntire. 14-19 p.

*PFC 42, Nov-Dec. 1938.
- A. Ichthyophthiriasis in a trout hatchery, by Louis E. Wolf. 1-17 p., illus.
- B. Maryland small mouth bass spawn when sixteen months old in South Africa, by A. Cecil Harrison. 17-21 p.
- C. Artificial spawning and propagation of black bass in Wisconsin, by G. E. Sprecher. 21-24 p.
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- E. A comparison of the growth of fingerling rainbow trout in concrete and dirt-bottomed circular pools of the same size, by Eugene W. Surber 29-31 p.

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- A. Disease prevention in the trout hatchery, by Frederic F. Fish. 1-7 p.
- B. Feeding of Montana grayling at the Bozeman, Montana station, by Charles L. Fuqua. 12-17 p.
- C. Marshall McDonald, 1835-1895, by William C. Kendall. (Founders of fish culture) 19-30 p.

*PFC 44, Mar.-Apr. 1939.
- A. Report on Pisgah fish management, 1939, by William M. Keil. 1-10 p.
- B. Some experiments on the use of salmon viscera, seal meal, beef pancreas, and apple flour in the diet of young chinook salmon, (Oncorhynchus tschawytscha), by L. R. Donaldson and Richard F. Foster. 10-17 p., illus.
- C. Starch digestion in trout, by Frank H. Connell and Eddy Davis Palmer. 18-19 p.
- D. Further notes on heating water for the culture of trout, by T. S. Kibbe. 19-23 p., illus.
- E. Propagation of channel catfish, by A. G. Morris. 23-27 p., illus.

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- A. The success of the Bonneville fishways during their first year of operation, by Harlan B. Holmes and Frederick G. Morton. 1-11 p., illus.
- B. Plans for constructing a small fish ladder, based on reports of O. W. Lindgren. 11-17 p., illus.
- C. Fish screen in irrigation diversions, based on reports from O. W. Lindgren and John Spencer. 18-23 p., illus.
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- E. Notes on the effect of low temperature upon eyed eggs, by Frederic F. Fish and Roger E. Burrows. 28-31 p.
- F. Fingerling trout-feeding experiments, Leetown, 1938, by James S. Gutsell. 32-41 p., illus.
- G. Diplostomiasis, a hatchery disease of fresh-water fishes new to North America, by Eddy D. Palmer. 41-47 p., illus.
- H. Furunculosis and another case of ichthyophthiriasis, by G. Clifford Carl. 47-50 p.
- I. Another hatchery meat-room, by Robert Fortney. 50-53 p., illus.

*PFC 46, July-Oct. 1939.
- A. Fish and fishing waters in Glacier Park, by A. S. Hazzard. 1-7 p., illus.
- B. Hatcheries, by Richard Paget. 7-11 p. Reprinted from The Irish angler, v.1, no.1, Spring, 1939.
- C. Some experiments on the use of beef liver, seal meal, salmon meal, and apple flour in the diet of young chinook salmon, by L. R. Donaldson and Fred J. Foster. 12-15 p.
- D. Perfection in hatchery intakes, by A. H. Dinsmore. 16-19 p., illus.
- E. Transportation of channel catfish eggs and fry, by Charles L. Fuqua and Hubert C. Topel. 19-21 p.
- F. The bulb siphon egg picker, by Roger E. Burrows. 22-24 p., illus.

*PFC 47, Nov.-Dec. 1939.
- A. A method for the production of large-mouth bass on natural food in fertilized ponds, by O. Lloyd Meehean. 1-19 p., illus.
- B. A closed water system for a hatchery by G. Clifford Carl. 20-24 p., illus.
- C. Transplanting the Columbia's salmon; salvaging the salmon runs obstructed by the Grand Coulee Dam. 25-30 p., illus.

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*PFC 47, Nov.-Dec. 1939. (Continued)

D. Experiments with forage minnows in bass ponds, by Eugene W. Surber and George E. Klak. 31-37 p.
E. General management suggestions for lakes surveyed in 1937 in the several national forests of Michigan, by R. W. Eschmeyer. 38-45 p., illus.
F. Some experiments on the use of fresh beef blood as a substitute for beef liver in the diet of young chinook salmon, (Oncorhynchus tschawytscha), by L. R. Donaldson and Fred J. Foster. 46-49 p.
G. Preliminary results of an experiment on the inclusion of apple flour in foods fed to young salmonoids, by Fred J. Foster, John Pelnar, and William Hagen, Jr. 49-51 p.
H. The reactions of silver salmon Oncorhynchus kistuch, to a 190 foot fall, by Richard T. Smith. 51-52 p.
I. Effect of temperature changes on young trout, by William Hagen, Jr. 52-53 p.
J. Naturalistic raceways, by Robert Fortney. 53-54 p.

*PFC 48, Jan.-Feb. 1940.

A. Formalin for external protozoan parasites; a report on the prevention and control of Costia necatrix, by Frederic F. Fish. 1-10 p., illus.
B. Meatless diets and anemia; the development of anemia in trout fed a synthetic diet and its cure by the feeding of fresh beef liver, by Arthur M. Phillips, Jr. 11-13 p.
C. Salmon culture in Japan; the Chitose Salmon Hatchery, by M. Watanabe. 14-18 p., illus.
D. Sterilizing hatchery water supplies; the use of liquid chlorine and powdered derris root, by William Hagen, Jr. 19-24 p., illus.
E. Do muskellunge and pickerel interbreed? Successful hybridizing in hatchery suggests they do, by Samuel Eddy. 25-27 p.
F. Frozen fish in hatchery diets may be dangerous, by James S. Gutsell. 28-32 p.

PFC 49, Mar.-Apr. 1940.

A. Lost: 10,839 fingerling trout! An appraisal of the results of planting fingerling trout in St. Mary River, Virginia, by Eugene W. Surber. 1-13 p., illus.
B. After the hatchery - what? A sports writer poses a question for fish -culturists, by Roy Wall. p.26. Reprinted from Our Woods and Streams, Wichita, Kans., Beacon, Oct. 1, 1939.
C. Hatchery diets and growth; experimental studies of the growth of brook trout, by C. McCay and the staff of the Cortland Hatchery, Cortland, New York. 27-30 p.
D. Formalin treatments pass new tests; additional notes on the control of ectoparasitic protozoa, by Frederic F. Fish. 31-32 p.
E. Stunning fish by electricity; electric shock provides method of anesthetizing fish in laboratory, by David C. Haskell. 33-34 p.
F. The value of disinfection in ulcer disease; sterilizing ponds with chlorine prevents recurrence, by Louis E. Wolf. 35-36 p.
G. Planting fish by boat, by Robert Fortney. 37-38 p., illus.

*PFC 50, May-June 1940.

A. Laying the foundations of fishery management; a review of the aquicultural investigations of the Bureau of Fisheries, by H. S. Davis. 1-13 p., illus.
B. Turtles; friends or foes of fish culture? By Karl F. Lagler. 14-18 p., illus.
C. The feeding of trout brood stock; the diet of rainbow trout in relation to quantity, quality, and cost of eggs, by James S. Gutsell. 19-28 p., illus.
D. The protein requirement of trout, by A. V. Tunison. 29-32 p.
E. A treatment for tapeworms in trout, by Donald L. McKernan. 33-35 p.

*PFC 51, July-Oct. 1940.

A. The Lake of the Ozarks; a problem in fishery management, by Albert E. Weyer. 1-10 p., illus.
B. Suiting the diet to the hatchery; the tolerance of one strain of rainbow trout to some foods, by William Hagen, Jr. 11-15 p., illus.
C. Feeding carbohydrates; a study of the digestion and absorption of carbohydrates by book trout, by Arthur M. Phillips, Jr. 16-23 p.
D. The control of Octomitus. Calomel in the diet of hatchery salmon, by Richard T. Smith and Elmer Quistorff. Calomel versus carbarsone, by Frederic F. Fish and Donald L. McKernan. 24-29 p.
E. Planting fish in lakes, by H. John Rayner. 33-34 p., illus.

*PFC 52, Nov.-Dec. 1940.

A. Building new salmon runs; Puget Sound sockeye salmon plantings show varying degrees of success, by Loyd A. Royal and Allyn Seymour. 1-7 p., illus.

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*PFC 52, Nov.-Dec.1940. (Continued)

B. The new federal fish distribution policy; requirements of federal waters to receive first consideration, by M. C. James. 8-11 p., illus.

C. A bacterial disease of carp in central Europe; Haemorrhagic septicaemia causes heavy losses on Polish fish farms, by Stanislas F. Snieszko. 12-15 p.

D. Air conditioning fish distribution tanks, by Ralph H. Olson. 16-17 p., illus.

E. Feeds for the fish hatcheries; a summary of research at the Cortland Experimental Hatchery, by C. M. McCay and A. M. Phillips. 18-21 p.

F. The new salmon hatchery at Leavenworth by S. E. Hutton. 24-30 p., illus. Reprinted from Reclamation Era, Dec. 1940.

*PFC 53, Jan.-Feb. 1941.

A. The individual and the public service; Director Gabrielson discusses Service policy with the younger staff members. 1-7 p., illus.

B. Managing ponds for fish production, by H. S. Swingle and E. V. Smith. 8-13 p., illus.

C. Formalin for bacterial fin rot, by Roger E. Burrows. 14-16 p.

D. A new fish-transportation unit; Jefferson National Forest trout ride in refrigerated van, by Theodore C. Fearnow. 19-22 p., illus.

E. Bulk foods in the diet of young salmon, by Lauren R. Donaldson and Fred J. Foster. 23-25 p.

F. Conservation at the headgate; screening irrigation diversions, an important phase of western fishery management, by R. R. Gardner. 26-29 p., illus.

G. Beware of the broken egg! A possible cause of heavy losses of salmon eggs, by G. Clifford Carl. 30-31 p.

*PFC 54, Aug. 1941.

A. The life history and control of an eye fluke; an account of a serious hatchery disease caused by a parasitic worm, by M. S. Ferguson and Robert A. Hayford. 1-13 p., illus.

B. Organization of the Fish and Wildlife Service, by W. R. Dillon. 14-23 p. illus.

C. Is wild trout fishing doomed? By Lithgow Osborne. 24-29 p., illus. Reprinted from Outdoor America, Nov. 1940.

D. Marking trout under anesthesia, by Richard F. Foster. 30-31 p.

E. Egg production of walleyed pike and sauger; Norris Reservoir fish differ from same species in other localities, by Charles G. Smith. 32-34 p.

*PFC 55, Nov. 1941.

A. Carbarsone treatments for octomitus; experimental and practical tests show value of new drug, by E. Clifford Nelson. 1-5 p.

B. Increasing the capacity of a hatchery; circular tanks give four-fold increase in potential capacity, by Gustave Prevost. 6-10 p., illus. Reprinted from Transactions of the American Fisheries Society, 70, 1941.

C. Lingingston Stone, by Joel W. Hedgpeth. (Founders of fish culture) 11-14 p., illus.

D. A sportsman-operated rearing station, by Jerry Martin. 15-18 p., illus.

E. Keeping books on a Vermont trout stream, by Russell F. Lord. 19-22 p.

F. Fish culture on Lake Titicaca, by M. C. James. 25-27 p., illus.

G. The potato ricer in the fish hatchery; how to transform a kitchen gadget into a fish feeder by C. R. Mitchell. 28-30 p.

H. A spawning knife for taking salmon eggs, by Edgar Ledgerwood. 31-32 p., illus.

*PFC 56, Dec. 1941.

A. Trout management in New Hampshire; biologist's findings form basis of state's new program, by Herbert E. Warfel. 2-9 p., illus.

B. A drip incubator and heater combination; device solves problem of limited water supply plus low temperatures, by James R. Simon and Floyd Roberts. 10-13 p., illus.

C. Fishery research in Wisconsin, by Edward Schneberger. 14-17 p., illus.

D. A new method of combating fungus infections, by D. John O'Donnell. 18-20 p.

E. Belly tags for bass; preliminary returns from the tagging of fingerling smallmouth black bass, by Eugene W. Surber. 21-22 p., illus.

F. Two-way counting weir for salmon; complete census of salmon migrants taken in Alaska stream. 23-27 p., illus.

G. Fertilizing bass ponds; large quantities in center of pond recommended, by T. F. Nelson. 28-29 p.

*PFC v.9, no.1, Jan. 1947.

A. Available knowledge as a spur to practical fish culture, by C. M. McCay. 5-8 p.

B. River developments and their effects upon fish and wildlife resources, by Rudolph Dieffenbach. 9-12 p.

C. Furunculosis and its treatment, by James S. Gutsell. 13-20 p.

D. Ichthyophthiriasis in Australian trout hatchery, by A. Dunbavin Butcher. 21-26 p.

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*PFC v.9, no.1, Jan. 1947. (Continued)

E. Artificial propagation of those channel cats, by H. L. Canfield. 27-30 p.
F. Hatchery problems in wartime. 31-36 p.
G. Use of bentonite for stopping seepage in ponds, by Lee M. Duncan. 37-39 p.
H. It pays to grade largemouth bass fingerlings, by Hubert C. Topel. 40-41 p.
I. Enlarged ricer for pond feeding, by Roger E. Burrows and John E. Manning. 42-45 p., illus.
J. A new type of drain plug, by C. R. Mitchell. 46-47 p.

*PFC v.9, no.2, Apr. 1947.
A. Hunt Creek fisheries experiment station; Michigan's field laboratory and experimental area engaged primarily in study of trout-stream problems, by Albert S. Hazzard, Justin W. Leonard, and David S. Shetter. 65-70 p., illus.
B. 2,4-D and some emergent aquatics; effects of butyl ester of 2,4-dichlorophenoxy acetic acid on some emergent aquatic plants, by Aden C. Bauman. 71-77 p., illus.
C. There is no universal pondfish, by Thomas K. Chamberlain. 78-81 p.
D. Fishery management in Oklahoma; impoundments utilized to the advantage of fishery-management studies, by A. D. Aldrich. 82-85 p., illus.
E. Growth rate and fin regeneration in trout, by J. H. Wales. 86-89 p., illus.
F. One fish-culturist's estimate of the kingfisher, by Charles L. Fuqua. 90-93 p., illus.
G. Dual treatment for bacterial fin rot, by George J. Eicher, Jr. 94-95 p.
H. Compressed-air fish-feeding apparatus, by John Pelnar. 96-98 p., illus.
I. Well casings for pond screens, by Fred A. Thompson. 99-101 p., illus.
J. Screen frames that seal, by Walter M. Allen. 102-103 p., illus.

*PFC v.9, no.3, July 1947.
A. Sulfamerazine in the treatment of trout for furunculosis and ulcer disease, by Louis E. Wolf. 115-124 p.
B. An unusual type of farm pond, by Charles L. Fuqua. 125-129 p., illus.
C. Trout fishery in Oregon, by H. J. Rayner. 130-132 p.
D. Farm ponds - real and potential values by William H. Thompson. 133-135 p.
E. The Montana grayling, by Clarence A. Tryon, Jr. 136-142 p., illus.
F. The control of aquatic plants with phenoxyacetic compounds; experimental work with certain plant-growth regulators as herbicides, by Eugene W. Surber, C. E. Minarik and W. B. Ennis, Jr. 143-150 p., illus.
G. This question of anemia; what it is, and what to do about it, by Arthur M. Phillips, Jr. and Donald R. Brockway. 151-154 p.
H. Farm ponds, by Ancil D. Holloway. 155-158 p., illus.
I. Rat control on fish-cultural stations, by Thomas B. Murray. 159-163 p., illus.
J. Implements in flounder operations, by Thomas H. Dorr. 164-167 p., illus.
K. Aluminum hatching troughs, by A. C. Balch. 167-168 p., illus.
L. Catch basins for unfinished ponds, by Wilburn J. Whipple and Bernard L. Pelz. 168-169 p., illus.
M. Separation of northern pike eggs, by Leslie H. Bennett. 169-170 p.

*PFC v.9, no.4, Oct. 1947.
A. Foreign introductions of North American fishes; inadvisability of recommending North American fishes without careful appraisal of foreign fishes and ecology, by George S. Myers. 177-180 p.
B. River shrimps; interesting crustaceans about which little has been written, by Joel W. Hedgpeth. 181-184 p., illus.
C. Ten years of trout stream management on the Pisgah, by T. K. Chamberlain and W. W. Huber. 185-191 p., illus.
D. Fish distribution units; construction of six-compartment and two-Compartment units, by T. H. Copeland. 193-202, p., illus.
E. New type of fish fence for use in streams, by William C. Herrington and Louis D. Stringer. 203-209., illus.
F. Sorting table, by Hubert C. Topel. 209-210 p., illus.
G. Control of algal growths in hatching ponds and raceways, by Elmer F. Herman and Wendel Anderson. 211-212 p., illus.
H. Selected bibliography of North American fresh-water fishery biology, 1941-1946, by Karl F. Lagler and Charles K. Fisher, Jr. 213-230 p.

PFC v.10, no. 1, Jan. 1948.
A. Survival of hatchery trout in streams and possible methods of improving the quality of hatchery trout, by Howard A. Schuck. 3-14 p.

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PFC v.10, no1, Jan. 1948. (Continued)

B. Effect of population pressure upon rate of growth and food conversion of fingerling cutthroat trout, by K. Bonham and R. Walter Williams. 15-18 p., illus.

C. New compounds for the control of bacterial gill disease, by Robert R. Rucker. 19-22 p.

D. Improved method for enumerating hatchery fish populations, by George S. Hewitt and Roger E. Burrows. 23-27 p., illus.

E. Glacial acetic acid and green egg mortality, by Kenneth E. Morton. p. 28.

F. Colorado's glass fish tank, by C. N. Feast and C. E. Hagie. 29-30 p., illus.

G. Power egg picker, by Richard J. McMullen. 30-31 p., illus.

H. The hatchery log-book, by F. Pells. p. 32.

I. Trout in a floating raceway, by C. F. Culler. p. 33, illus.

J. House trailer as a mobile fishery laboratory, by E. A. Seaman. 34-35 p., illus.

K. Fish-food beater, by J. E. Manning and C. R. Jackson. p. 36, illus.

PFC v.10, no. 2, Apr, 1948.

A. Fertilization of a recreational lake to control submerged plants; effects of fertilization program upon bathing, boating, fishing, by Eugene W. Surber. 53-58 p., illus.

B. Graphical method for presenting data on the growth of trout, by David C. Haskell. 59-61 p., illus.

C. Our national aquarium, by John C. Pearson. 62-66 p., illus.

D. Fact and fiction in spawntaking, by E. M. Wood and W. A. Dunn. 67-72 p., illus.

E. Use of the block system in fish-cultural operations, by Bruce B. Cannady. 73-75 p.

F. Spawn from Lake San Cristobal, by Tom A. French. 76-77 p., illus.

G. Establishment of "stream-feeders" as a means of conserving fish, by Charles Otto Masters. 78-80 p.

H. Cod-liver oil in the diet of trout, by James S. Gutsell. 81-83 p.

I. Fish production program, 1947, in the southeast, by John Blosz. 84-87 p.

J. Removal of excess nitrogen in a hatchery water supply, by Robert R. Rucker and Edward M. Tuttle. 88-90 p., illus.

K. Refrigerated live-trout distribution tank, by James V. Stoddard. 91-94 p., illus.

L. Pike culture at the New London, Minnesota, station, by Leslie H. Bennett. 95-97 p., illus.

M. Largemouth bass trap, by Robert A. Hayford. 98-99 p., illus.

N. Fish tub carrier, by S. A. Scott. p. 100, illus.

PFC v.10, no.3, July 1948.

A. Results of an analysis of farm ponds in the midwest; evaluating pond production, by Wallace L. Anderson. 111-116 p., illus.

B. Vitaminology, by Arthur M. Phillips, Jr., and Donald R. Brockway. 117-124 p., illus.

C. Chemical control agents and their effects on fish, by Eugene W. Surber. 125-131 p.

D. Some precautions in estimating fish populations, by Kenneth D. Carlander and William M. Lewis. 134-137 p., illus.

E. Brook and rainbow trout treated with sulfamerazine and calomel or sulfamerazine and carbarsone, by James S. Gutsell and S. F. Snieszko. 139-140 p.

F. Experiment on the control of columnaris with sulfa drugs, by Daniel W. Slater. 141-142 p.

G. Disinfection of rainbow trout eggs with sulfo-merthiolate; experiment with sodium p-ethyl mercuri thiophenyl-sulfonate, Lilly, by S. F. Snieszko and S. B. Friddle. 143-149 p.

H. Channel catfish tagging in West Virginia, by E. A. Seaman. 150-152 p., illus.

I. Cattail control with scythe and 2, 4-D, by C. H. Walker. 153-154 p., illus.

PFC v.10, no.4, Oct. 1948.

A. Cement: Its preparation and use in fish-management projects; ponds, fish ladders, and hatchery buildings, by Portland Cement Association. 163-175 p., illus.

B. Management of game fish of Conchas Reservoir, by C. M. Mottley and T. K. Chamberlain. 177-186 p., illus.

C. Bangos culture in the Philippines, by W. F. Carbine. 187-197 p., illus.

D. Washington Monument lot; fish ponds. p. 198, illus.

E. Increasing production of bluegill sunfish for farm pond stocking, by Eugene W. Surber. 199-203 p., illus.

F. New substances of possible value in fish disease control, by Max Katz. 204-205 p.

G. New system of trout distribution in West Virginia, by E. A. Seaman. 206-208 p., illus.

H. Improved rearing pond, by Marshall Thayer. 209-212 p., illus.

PFC v.11, no.1, Jan. 1949.

A. Muskellunge fingerling culture; production of the "muskie" in Wisconsin, by A. A. Oehmcke. 3-18 p., illus.

B. Fish culture in Morocco, by J. G. Prud'homme. 19-23 p., illus.

C. Progress report; improvement of fish-cultural practices in Oklahoma, by A. D. Aldrich. 25-29 p.

D. Survey of fish culture in the United States, by A. V. Tunison, S. M. Mullin and O. Lloyd Meehean. 31-69 p.

E. Control of crawfish, by Clay Lyle. p. 72.

F. Urethane (Ethyl carbamate) in some fishery procedures, by Shelby D. Gerking. 73-74 p. Contribution no. 392, Dept. of Zoology, Indiana University.

G. Fact and fiction in spawntaking; addenda, by Robert R. Rucker. 75-77 p.

H. Use of lime in acid ponds, by Meddie C. Walker. p. 78.

I. Experimental fish troughs, by S. F. Snieszko. 79-81 p., illus.

J. Neutralizing chlorine in trout display tanks, by E. O. Rodgers. 82-83 p.

PFC v.11, no.2, Apr. 1949.

A. Prophylactic treatment for control of fungus (Saprolegnia parasitica) on salmon eggs, by Roger E. Burrows. 97-103 p., illus.

B. Control of pondweeds with 2, 4-D, by J. R. Snow. 105-108 p.

C. Use of cod-liver oil in the diet of hatchery-reared trout, by Arthur M. Phillips, Jr., Donald R. Brockway, and E. O. Rodgers. 109-112 p., illus.

D. Eradication of emergent aquatic vegetation with 2, 4-D; particular emphasis upon alligatorweed, by J. H. Cornell. 113-118 p.

E. Electric seine used in Kentucky, by Leonard Joeris. 119-121 p., illus.

F. Epistylis; a peritrichous protozoan, on hatchery brook trout, by Jacob H. Fischthal. 122-124 p., illus.

G. Progress in reclamation techniques, by Hilbert R. Siegler and Harold Pillsbury. 125-129 p., illus.

H. Dietary observations on brown trout fingerlings, by Ernest O. Rodgers. 130-132 p.

I. Inexpensive microprojector for scale and plankton study, by Leonard Joeris. 133-135 p., illus.

J. That potato ricer again, by Maurice Bryant, Jr. 136-137 p., illus.

PFC v.11, no.3, July 1949.

A. The folic acid requirements of trout; brook, brown, and rainbow, receive various levels for study, by Arthur M. Phillips, Jr., Donald R. Brockway and Ernest O. Rodgers. 141-145 p., illus.

B. Pyridylmercuric acetate; its toxicity to fish, efficacy in disease control and applicability to a simplified treatment technique, by Roger E. Burrows and David D. Palmer. 147-151 p.

C. Pyridylmercuric acetate technical; its use in control of gill disease and some external parasitic infestations, by S. F. Snieszko. 153-155 p., illus.

D. Manganese for increased production of water-bloom algae in ponds, by Croswell Henderson. 157-159 p., illus.

E. Prophylaxis of furunculosis in brook trout (Salvelinus fontinalis) by oral immunization and sulfamerazine, by S. F. Snieszko and S. B. Friddle. 161-168 p., illus.

F. Direct current as aid to the fishery worker, by H. J. Rayner. 169-170 p.

G. Isolation of Saprolegnia and Achlya with penicillin-streptomycin, and attempts to infect fish, by Glenn L. Hoffman. 171-174 p.

H. Recommended methods for fertilization, transportation, and care of salmon eggs, by Roger E. Burrows. 175-177 p.

I. Analyses of farm ponds in Oklahoma, Texas, and New Mexico, by Charles L. Fuqua. 178-184 p., illus.

J. Improvements in bluegill sunfish distribution methods, by Fred L. Cox. 185-188 p., illus.

K. A drop center raceway, by Ernest O. Rodgers. 189-190 p., illus.

PFC v.11, no.4, Oct. 1949.

A. An echo sounder for small boats, by Charles R. Burrows. 199-201 p., illus.

B. Effects of an aerial application of DDT on fish and fish-food organisms in two Pennsylvania watersheds, by C. H. Hoffman, and E. W. Surber. 203-211., illus.

C. Survey of problems in fishery administration, by Karl F. Lagler. 213-216 p.

D. Value of the bottom sampler in demonstrating the effects of pollution on fishfood organisms and fish in the Shenandoah River, by Croswell Henderson. 217-230 p., illus.

E. Pond record of bass and bluegill production, by Hubert C. Topel. 231-243 p., illus.

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PFC v.11, no.4, Oct. 1949. (Continued)

F. Montana fish-distribution tank, by A. G. Stubblefield, Lorin Lefevre and Rex Smart. 245-252 p., illus.

G. Extended survey of fish culture in the United States, by A. V. Tunison, S. M. Mullin and O. Lloyd Meehean. 253-262 p.

H. A simple method of mounting scales, by William M. Lewis and Kenneth D. Carlander. p 263.

I. Effect of acid treatment on pH and fish, by A. E. Borell. p. 264.

J. A "quick-change" screen for fish hatchery ponds, by Fred V. Carr and Leonard N. Allison. 265-266 p., illus.

PFC v.12, no.1, Jan. 1950.

A. Fish populations in some Iowa farm ponds; a survey based upon two methods of population analysis, by Floyd R. Fessler. 3-11 p.

B. Propagation of fresh-water mussels, by Richard O. Jones. 13-25 p., illus.

C. Comparison of the number of erythrocytes in the blood of hatchery-reared and wild silver salmon fingerlings, by Max Katz and L. R. Donaldson. 27-28 p.

D. Percentage returns of marked trout in two West Virginia streams, by E. A. Seaman and R. F. Stephens. 29-31 p.

E. Bass production in a Kentucky fish hatchery pond, by Minor Clark. 33-34 p., illus.

F. Black bass in Maryland, by Talbott Denmead. 35-37 p., illus.

G. An application of electricity to collection of fish, by Robert W. Morris. 39-42 p., illus. Technical paper no. 583, Oregon Agricultural Experiment Station.

H. Natural siphon egg picker, by A. B. Smith. p. 44.

I. Carbon black on East Lake; Deschutes Nat'l Forest, Oregon, by Robert L. Borovicka. p. 45, illus.

PFC v.12, no.2, Apr. 1950.

A. Ten years of fishery activities under the Fish and Wildlife Service, by Albert M. Day. 57-62 p.

B. Bacteriological findings in the study of an outbreak of ulcer disease among brook trout yearlings of the Westfield, Wisconsin, hatchery, by Kenneth G. Flakas. 63-66 p., illus.

C. Biotin and brown trout; the tale of a vitamin, by Arthur M. Phillips, Jr., Donald R. Brockway, and Ernest O. Rodgers. 67-71 p.

D. The helicopter in fish-planting operations in Olympic National Park, by Lewis R. Garlick. 72-76 p., illus.

E. Fishery research program at Cornell University, by Dwight A. Webster. 77-80 p.

F. Sterilization of a trout hatchery pond with chlorine, by Robert E. Cleary and Lloyd P. Bailey. 81-84 p., illus.

G. Cutthroat trout without dorsal fins, by Mark R. Code. 85-86 p., illus.

H. A bacterial disease found in the black crappie; Poxomis nigro-maculatus, by Kenneth G. Flakas. 87-88 p.

I. An expansion raceway gate, by Tom E. Carlon. 89-90 p., illus.

J. A graphic record for hatcheries rearing artificially fed fish, by Maurice Bryant, Jr. 91-93 p., illus.

K. A selected bibliography on farm ponds and closely related subjects, by Vincent Schultz. 97-104 p.

PFC v.12, no.3, July 1950.

A. Fish management in the multiple-use management of the national forests, by Lloyd W. Swift and Merle A. Gee. 113-126 p., illus.

B. Metabolic products and their effects, by Donald R. Brockway. 127-129 p.

C. Recent developments in the electric method of collecting fish, by David C. Haskell. 131-134 p.

D. Biological effects of nigrosine used for control of weeds in hatchery ponds, by Eugene W. Surber and Max H. Everhart. 135-140 p., illus.

E. Toxicity of some new insecticides to several species of pondfish, by J. M. Lawrence. 141-146 p.

F. Summary of farm-pond inspections, 1949, by Robert W. Sharp. 147-150 p., illus.

G. Rainbow brood-stock selection and observations on its application to fishery management, by Cliff Millenbach. 151-152 p.

H. A method of transporting fingerline shad, by James E. Sykes. 153-159 p.

I. Perforated aluminum screens for circular pools, by Robert F. Stephens and William Evans. 161-162 p., illus.

J. Condition factor alinement charts, by Charles K. Phenicie and Clinton G. Bishop. 163-168 p.

K. Diet experiments on Atlantic salmon in Maine, by George A. Rounsefell, Lyndon H. Bond and George K. White. 169-172 p.

PFC v.12, no.4, Oct. 1950.

A. Construction and use of small trap nets, by Walter R. Crowe. 185-192 p., illus.
B. Present status of fishery management in Oklahoma, by Bill Thompson. 193-195 p.
C. Fish-planting tank for 3/4-ton pickup truck, by Earl Leitritz. 197-206 p., illus.
D. Survey of systems used in measuring lengths and weights of fishes, and of systems proposed as standard, in the Southwest, by Frank T. Knapp. 207-208 p., illus.
E. Fish growth rates read directly from the projected scale, by Leonard Joeris. 209-210 p., illus.
F. Distribution units for warm-water fish, by Albert J. Wilson. 211-213 p.
G. The Chipman meat cutter, by Jack R. Chipman. 214-215 p., illus.
H. Quickly changed dip net, by Fred J. Richan. 217-220 p., illus.

PFC v.13, no.1, Jan. 1951.

A. Channel catfish culture in Texas; helpful hints regarding propagation procedures, by Marion Toole. 3-10 p., illus.
B. An impression method for preparing fish scales for age and growth analysis, by Edgar L. Arnold, Jr. 11-16 p., illus.
C. Diet experiments with trout, by Louis E. Wolf. 17-24 p.
D. Method for enumeration of salmon and trout eggs by displacement, by Roger E. Burrows. 25-30 p., illus.
E. Raining fish; planting by plane, by Earl Leitritz. 31-35 p., illus.
F. The handling of applications for fish in the Fish and Wildlife Service, by Lee M. Duncan. 37-41 p.
G. Effect of bactericides on steelhead trout fry, by R. R. Rucker and W. J. Whipple. 43-44 p.
H. The transfer of adult shad, by James E. Sykes. 45-46 p.
I. Metal fish graders, by Frank A. Bengard. 47-48 p., illus.

PFC v.13, no.2, Apr. 1951.

A. The effect of retardation of the initial feeding on the growth and survival of salmon fingerlings, by David D. Palmer, Harlan E. Johnson, Leslie A. Robinson, and Roger E. Burrows. 55-62 p., illus.
B. Muskellunge yearling culture and its application to lake management, by Arthur A. Oehmcke. 63-70 p., illus.
C. The toxicity of pyridylmercuric acetate technical (PMA) to rainbow trout (Salmo gairdnerii), by E. O. Rodgers, B. H. Hazen, S. B. Friddle, and S. F. Snieszko. 71-73 p.
D. Some experiments on the use of thiouracil as an aid in holding and transporting fish, by Paul E. Osborn. 75-78 p., illus.
E. An evaluation of methods of egg enumeration, by Roger E. Burrows. 79-85 p.
F. Snaring through the ice for nongame fish in West Virginia, by E. A. Seaman. 86-90 p., illus.
G. Sulfamerazine in the control of columnaris in steelhead trout (Salmo gairdnerii), by Harlan E. Johnson. 91-93 p., illus.
H. Experiments with canned fish as food for trout, by Louis E. Wolf. 95-97 p.
I. A lightweight pulling engine for seines, by E. T. Rose. 99-100 p., illus.
J. Dual-purpose trout rearing tanks, by Maurice Bryant, Jr. 101-102 p., illus.

PFC v.13, no.3, July 1951.

A. Delay of spawning in eastern brook trout by means of artificially prolonged light intervals; an attempt to decrease losses among hold-over stock during normal fall spawning season, by Leonard N. Allison. 111-116 p., illus.
B. Comparison of yeast and penicillin mat as supplements to dry-meal diets for brown trout, by Louis E. Wolf 117-120 p.,
C. Comparison of fish food costs in federal hatcheries in 1945 and 1949, by A. V. Tunison. 121-128 p.
D. An incident of high mortality among large rainbow trout after treatment with pyridylmercuric acetate, by R. F. Foster and P. A. Olson. 129-130 p.
E. A method of measuring the natural food content of rearing ponds, by John Dobie. 131-134 p., illus.
F. Sulfadiazine for kidney disease, by R. R. Rucker, A. F. Bernier, W. J. Whipple and R. E. Burrows. 135-137 p.
G. Notes on a bacterial disease of rainbow trout in a Colorado hatchery, by Wayne R. Seaman. 139-141 p.
H. Use of a wetting agent to facilitate pond reclamation, by Richard H. Stroud. 143-145 p.
I. Chlorine-removal unit at full-scale operating hatchery, by R. W. Sharp. 146-148 p., illus.

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PFC v.13, no.3, July 1951. (Continued)

J. Suggestions for improving the collection of fish with rotenone, by Robert B. Moorman and C. E. Ruhr. 149-151 p., illus.

K. Practical gill net sizes for sampling average Connecticut lakes, by Cole W. Wilde and Vincent B. Romeo. 153-156 p., illus.

L. Can we establish a standard system of measuring lengths and weights of fishes? By Hurst H. Shoemaker. 157-158 p.

M. Pond-scrubbing machine with single brush, by Rudolph W. Branum. 159-160 p., illus.

N. Pon-scrubbing machine with double brush, by Harold G. Kronholm. 161-164 p., illus.

PFC v.13, no.4, Oct. 1951.

A. An evaluation of fish pond stocking policy and success in the southeastern states, by Ancil D. Holloway. 171-180 p., illus.

B. The coefficient of condition of brook, brown, and rainbow trout in the Pigeon River, Otsego County, Michigan, by Edwin L. Cooper and Norman G. Benson. 181-192 p., illus.

C. Stream pollution resulting from the use of organic insecticides, by L. A. Young and H. P. Nicholson. 193-198 p.

D. A nomograph for rapid back-calculation of fish lengths, by Edward M. Lowry. 199-204 p., illus.

E. Feeding frequency; its role in the rearing of blueback salmon fingerlings in troughs, by David D. Palmer, Leslie A. Robinson and Roger E. Burrows. 205-212 p.

F. Variation in fishing pressure and catch during various portions of the trout season on some Michigan trout waters, by David S. Shetter. 213-218 p., illus.

G. A new chemical treatment apparatus, by Elden H. Vestal. 219-224 p., illus.

H. The treatment frequency and concentration necessary for adequate prophylaxis with pyridylmercuric acetate for the control of bacterial gill disease, by Roger E. Burrows. 225-226 p.

I. The feeding of cooked carp to hatchery trout in Colorado, by W. R. Seaman. 227-228 p.

J. The design of an electric shocker boat, by Gerald F. Myers. 229-231 p.

PFC v.14, no.1, Jan. 1952.

A. The use of torula yeast in the feeding of trout; study of growth rate and vitamin values in Wisconsin hatcheries, by Warren S. Churchill. 3-9 p., illus.

B. An interim report on gill disease, by Robert R. Rucker, Harlan E. Johnson and George M. Kaydas. 10-14 p., illus.

C. Comparison of the growth of lake trout fingerlings from eggs taken in Seneca, Saranac, and Raquette Lakes, by David C. Haskell. 15-18 p., illus.

D. The effects of supplemental fats in the diet of brook trout, by Arthur M. Phillips, Jr., Donald R. Brockway and John M. Maxwell. 19-22 p.

E. A method of calculating fish production in rearing ponds, by John Dobie. 23-26 p., illus.

F. Suggestions for the renovation of fish ponds, by Ancil D. Holloway. 27-29 p.

G. A preliminary report on the control of fungus in the eggs of the pike (Esox lucius) with malachite green, by Robert W. Sharp, Leslie H. Bennett, and Eldon C. Saeugling. p. 30.

H. An aid in the application of rotenone in pond reclamation, by Howard P. Clemens. 31-32 p., illus.

I. Rearing young shad in ponds, by John C. Pearson. 33-36 p.

J. Trout on a trolley in Oregon, by Chris C. Jensen. p. 37., illus.

PFC v.14, no.2, Apr. 1952.

A. Ulcer disease in brook trout (Salvelinus fontinalis); its economic importance, diagnosis, treatment, and prevention, by Stanislas F. Snieszke. 43-49 p.

B. Relationships of weight and body measurements of adult smelt, Osmerus mordax (Mitchill), by William Dowell Baten and Peter I. Tack. 50-55 p.

C. Echo sounding, Massachusetts' lakes, ponds, and reservoirs, by Richard H. Stroud and Frank Grice. 56-60 p., illus.

D. Propagation of largemouth black bass and bluegill sunfish in federal hatcheries of the Southeast, by John Blosz. 61-66 p., illus.

E. Biotin, pantothenic acid, and brown trout, by Arthur M. Phillips, Jr., Donald R. Brockway, Floyd E. Lovelace and George C. Balzer, Jr. 67-70 p.

F. Survival and growth of stocked lake trout yearlings from Seneca and Raquette lake breeders, by David C. Haskell, Robert G. Zilliox, and W. Mason Lawrence. 71-73 p.

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PFC v.14, no.2, Apr. 1952. (Continued)

G. A rapid presumptive test for furunculosis in fish, by Philip J. Griffin. 74-75 p.
H. A comparison of the growth of fingerling chinook salmon reared in ponds, troughs, and circular tanks, by Harlan E. Johnson and Alfred C. Gastineau. 76-78 p., illus.
I. Rate of survival of largemouth black bass fingerlings stocked in experimental farm ponds, by William H. Brown. 79-80 p.
J. Egg inventory; enumeration with the egg counter, by David C. Haskell. 81-82 p., illus.

PFC v.14, no.3, July 1952.

A. Labor to produce fifty tons of trout; a time study, by David C. Haskell. 87-97 p., illus.
B. Public sentiment; an important factor in fishery management; with special reference to the St. Johns River and Lake Okeechobee, Florida, by John F. Dequine. 98-103 p., illus.
C. Observations on columnaris in salmon and trout, by Harlan E. Johnson and Richard F. Brice. 104-109 p., illus.
D. Some pathological symptons in brown trout on an all-meal diet, by Louis E. Wolf. 110-112 p.
E. Effects of injected pituitary material upon the spawning of blueback salmon, by Roger E. Burrows, David D. Palmer and H. William Newman. 113-116 p.
F. The effect of trout stocking on the rate of catch, by H. M. Ratledge and J. H. Cornell. 117-121 p., illus.
G. Comparison of the growth rates of chinook salmon fingerlings reared in circular tanks and Foster-Lucas ponds, by David D. Palmer, H. William Newman, Robert L. Azevedo, and Roger E. Burrows. 122-124 p.
H. Inks for marking plastic fish tags, by Oliver B. Cope. 125-126 p.
I. Pseudomonas hydrophila; the cause of "redmouth" disease in rainbow trout, by Edward D. Wagner and Curtis L. Perkins. 127-128 p.
J. The propagation of buffalo, by Meddie C Walker and Philip T. Frank. 129-130 p.
K. Operation mackinaw, by R. S. Robinson. p. 131.

PFC v.14, no.4, Oct. 1952.

A. The first year of federal aid in fish restoration. The Dingell-Johnson Act in operation, by Willis King. 135-147 p.
B. Experiments with antibiotics and vitamin B_{12} in the diets of brown trout fingerlings, by Louis E. Wolf. 148-153 p.
C. Absorption of radioactive calcium by brook trout, by Floyd E. Lovelace and Henry A. Podoliak. 154-158 p., illus.
D. The School of Fisheries, by Richard Van Cleve. 159-164 p., illus.
E. A note on experiments designed to test the viability of gametes and the fertilization of eggs by minute quantities of sperm, by J. R. Nursall and A. D. Hasler. 165-168 p., illus.
F. A comparative morphologic and physiologic study of fish blood, by Charles G. Smith, William M. Lewis, and Harold M. Kaplan. 169-172 p., illus.
G. Walleyed pike fingerling production in drainable constructed ponds in Minnesota, by Fred Miller. 173-176 p.
H. Rate of survival of largemouth black bass fry stocked in experimental farm ponds, by William H. Brown. 177-179 p.

PFC v.15, no.1, Jan. 1953.

A. Spot-poisoning applied to the Massachusetts lake and pond fisheries survey, by Richard H. Stroud. 3-10 p., illus.
B. Commercial and sport fishing; a reiteration of policy, by Paul E. Thompson. 11-13 p.
C. A simplified technique for classifying streams useful in fishery and related resource management, by R. D. Van Deusen. 14-19 p., illus.
D. The status of commercial and sport fishing on Reelfoot Lake, by Eugene S. Cobb. 20-23 p.
E. Observations on gas-bubble disease of fish, by R. R. Rucker and K. Hodgeboom. 24-26 p., illus.
F. Water sampler and water-analysis kit, by H. S. Swingle and M. C. Johnson. 27-30 p., illus.
G. Mortality of silver salmon from treatments with sulfamerazine, by Harlan E. Johnson and Richard F. Brice. 31-32 p.
H. A machine for sounding and for operating limnological apparatus, by Norman Reimers and Edwin P. Pister. 33-34 p., illus.
I. Chloretone as an anaesthetic for adult cutthroat trout, by Oliver B. Cope. p. 35.
J. A new type of fish trap, by Reed S. Nielson. 36-38 p., illus.

PFC v.15, no.2, Apr. 1953.

A. The distribution of four anadromous members of the genus Salmo in the northern hemisphere, by James E. Mason. 51-56 p., illus.

B. Migratory tendencies of the Manchester (Iowa) strain of rainbow trout, by H. M. Ratledge and J. H. Cornell. 57-63 p., illus.

C. The application of land use to fisheries management in Michigan, by O. H. Clark. 64-71 p., illus.

D. Virus diseases in fishes; outlook for their treatment and prevention, by S. F. Snieszko. 72-74 p.

E. Changes in the commercial fishery on the Alabama portion of the Tennessee River, by Paul Bryan and Lawrence F. Miller. 75-77 p.

F. A salmon research laboratory, by John A. Coates and A. Neal Woodall. 78-79 p., illus.

G. The effect of ether anesthesia on fin-clipping rate, by Paul H. Eschmeyer. 80-82 p.

H. Further data on the development of a nonmigratory strain of rainbow trout, by W. F. Carbine. 83-84 p.

I. A modification in the technique of computing average lengths from the scales of fishes, by John Van Oosten. 85-86 p.

J. Apparatus and methods for the collection of attachment materials in lakes, by Reed S. Nielson. 87-89 p., illus.

K. Innovation in a machine for reading fish scales, by Leon D. Johnson. 90-91 p., illus.

L. Fish food pellets show promise, by Donald R. Brockway. 92-93 p.

PFC v.15, no.3, July 1953.

A. A new, mechanically adjustable three-way grader, by K. E. Morton. 99-103 p., illus.

B. Effects of transportation of green eggs, and of water temperature during incubation, on the mortality of chinook salmon, by Harlan E. Johnson and Richard F. Brice. 104-108 p., illus.

C. Experiments with nigrosine dye in aquatic plant control, by Norman O. Levardsen. 109-113 p.

D. Use of pectoral fin rays to determine age of the white sucker, by W. J. Scidmore and A. W. Glass. 114-115 p., illus.

E. A report on the fisheries of East Bengal, Pakistan, by A. R. K. Zobairi. 116-120 p.

F. Methods and techniques used in trap-cropping largemouth black bass from Lake Mills, Wisconsin, hatchery ponds, by Nicholas J. Sears. 121-122 p., illus.

G. Lake mapping in Wisconsin, by Charles N. Lloyd. 123-124 p., illus.

H. Should we stock brown trout? By Reed S. Nielson. 125-126 p.

I. Use of pellets as trout food, by Harvey Willoughby. 127-128 p.

J. Occurrence of high mortality among chinook salmon fry after the recharge of a charcoal filter, by Allyn H. Seymour and John R. Donaldson. 129-130 p.

K. The Rogue River boat in fishery work, by Oliver B. Cope. 131-132 p., illus.

L. A partial bibliography on reservoirs, by William C. Beckman and Joseph H. Kutkuhn. 135-144 p.

PFC v.15, no.4, Oct. 1953.

A. A century of American fish culture, 1853-1953, by Edward M. Wood. 147-162 p.

B. Mortality rates of brook trout and brown trout in the Pigeon River, Otsego County, Michigan, by Edwin L. Cooper. 163-169 p., illus.

C. The use of a graphic-recording echo sounder on Maine lakes, by Kendall Warner. 170-174 p., illus.

D. A method for cellulose acetate impressions of fish scales with a measurement of its reliability, by Robert L. Butler and Lloyd L. Smith, Jr. 175-178 p., illus. Paper no. 3003, Scientific Journal Series, Minnesota Agricultural Experiment Station, St. Paul, Minn.

E. An epizootic among rainbow trout, by R. R. Rucker and Paul V. Gustafson. 179-181 p., illus.

F. Colored fish-food pellets, by Harold Wolf. p. 182.

G. Further observations on columnaris in salmon and trout, by Harlan E. Johnson and Richard F. Brice. 183-185 p.

PFC v.16, no.1, Jan. 1954.

A. Fishing in the tailwaters of T.V.A. dams, by L. F. Miller and C. J. Chance. 3-9 p.

B. West Virginia's electrical fish-collecting methods, by George D. Holton and Carl R. Sullivan, Jr. 10-18 p., illus.

C. Synthetic binding of trout diets, by E. M. Wood, P. J. Griffin, and S. F. Snieszko. 19-24 p., illus.

D. The use of dyes for marking fish, by Mahmoud Ibrahim Al-Hamid. 25-29 p.

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PFC v.16, no.1, Jan. 1954. (Continued)

E. Stream sediment removal by controlled reservoir releases, by A. B. Eustis and R. H. Hillen. 30-35 p., illus.

F. The effects of antibiotics and arsanilic acid on the growth of rainbow trout fingerlings, by Edward D. Wagner. 36-38 p., illus.

G. A Method for recording measurements of certain molluscs, arthropods, and fishes, by Carl N. Shuster, Jr. 39-40 p., illus.

H. Toxaphene as a fish toxin, by Jack E. Hemphill. 41-42 p.

PFC v.16, no.2, Apr. 1954.

A. Progress report on blue-sac disease, by Ken Wolf. 51-59 p., illus.

B. Pollution: its nature and evaluation, by Bertil G. Anderson. 60-64 p.

C. Effect of starvation, water temperature, and sodium amytal on the metabolic rate of brook trout, by Arthur M. Phillips, Jr., and Donald R. Brockway. 65-68 p.

D. A spaced-disc, self-cleaning fish screen, by Kenneth R. John. 70-74 p., illus.

E. Method of producing plastic impressions of fish scales without using heat, by Stanford H. Smith. 75-78 p., illus.

F. Malachite green oxalate used to control fungus on yellow pikeperch eggs in jar hatchery operations, by Robert Cummins, Jr. 79-82 p.

G. Control of a branched alga, Pithophora, in farm fishponds, by J. M. Lawrence. 83-86 p., illus.

H. Suspected ulcer disease in the golden shiner, Notemigonus crysoluecas (Mitchill), by George A. Schuster and William M. Lewis. 87-88 p.

I. The northern pike hatch at the Clear Lake (Iowa) Hatchery, by Tom Moen and Muhrl Lindquist. 89-90 p.

PFC v.16, no.3, July 1954.

A. Further studies on the reactions of adult blueback salmon to injected salmon and mammalian gonadotrophins, by David D. Palmer, Roger E. Burrows, O. H. Robertson, and H. Willlam Newman. 99-107 p.

B. Use of pituitary material in the propagation of minnows, by Robert C. Ball and Edward H. Bacon. 108-113 p., illus. Journal Article 1610, Michigan Agricultural Experiment Station.

C. Spring fishing on two TVA mainstream reservoirs, 1945-1953, by Lawrence F. Miller. 114-121 p.

D. An infestation of leeches on salmon fry and eggs, by B. J. Earp and R. L. Schwab. 122-124 p.

E. Relative survival of hatchery and wild trout, by J. H. Wales. 125-127 p.

F. The alewife in fresh water, by Joseph J. Graham. 128-130 p.

G. Preliminary experiment on fish culture in brackish-water ponds, by Malcolm C. Johnson. 131-133 p.

H. Feeding habits of the largemouth bass as revealed by a gastroscope, by Harry Dubets. 134-136 p., illus.

I. New method of artificially planting salmon eggs, by Clinton Stockley. 137-138 p., illus.

J. Converting carboys into jars and aquaria, by Oliver B. Cope. 139-140 p., illus.

PFC v.16, no.4, Oct. 1954.

A. A survey of private trout enterprises in the West, by John W. DeWitt, Jr. 147-152 p.

B. A comparison of hatchery diets and natural food, by Arthur M. Phillips, Jr., Reed S. Nielsen, and Donald R. Brockway. 153-157 p.

C. A field method of estimating soluble inorganic phosphate in natural waters, by E. P. Parry and A. L. McClelland. 158-162 p., illus.

D. A check on two methods of estimating farm fishpond populations, by Louis R. Hundley. 163-168 p., illus.

E. Check dams to maintain trout streams, by Kenneth A. Reid. 169-171 p., illus.

F. Chilling the eggs of the largemouth bass, by Kenneth C. Jurgens and William H. Brown. 172-175 p.

G. A new method of applying inorganic fertilizer to farm fishponds, by J. M. Lawrence. 176-178 p., illus.

H. A report on the Mississippi threadfin shad, by John W. Parsons and J. Bruce Kimsey. 179-181 p., illus.

I. Use of urethane anesthesia in spawning eastern brook trout, by Leon D. Johnson. 182-183 p., illus.

REGULATORY ANNOUNCEMENTS

RA 1. Laws and regulations for protection of the commercial fisheries of Alaska, 1941. 1941. 67 p. Supersedes Department of the Interior circular of the same title under date of Jan. 4, 1940, as amended.

RA 2-3. §

RA 4. Laws and regulations for the protection of walruses and sea lions in Alaska. 1941 [i.e.1942] 2 p. Supersedes Department of Commerce, Department Circular no.288, 9th ed., June 29, 1939, entitled Protection of walruses and sea lions in Alaska.

RA 5. Laws and regulations for protection of the commercial fisheries of Alaska, 1942. 1942. 64 p.

RA 6. §

RA 7. Laws and regulations for protection of the commercial fisheries of Alaska, 1943. 1943. 65 p.

RA 8. §

RA 9. Laws and regulations for protection of the commercail fisheries of Alaska, 1944. 1944. 65 p.

RA 10. Regulations relating to game and fur animals, birds, and game fishes in Alaska 1944-1945. 1944. 22 p., illus. Supersedes Alaska Game Commission Circular 21 of the same title, issued Aug. 1943.

RA 11. §

RA 12. Laws and regulations for protection of the commercial fisheries of Alaska, 1945. 1945. 63 p.

RA 13. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1945-1946. 1945. 23 p., illus.

RA 14. §

RA 15. Laws and regulations for protection of the commercial fisheries of Alaska, 1946. 1946. 66 p.

RA 16. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1946-47. 1946. 24 p., illus.

RA 17-18. §

RA 19. Laws and regulations for protection of the commercial fisheries of Alaska, 1947. 1947. 66 p.

RA 20. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1947-1948. 1947. 25 p., illus.

RA 21. §

RA 22. Laws and regulations for protection of the commercial fisheries of Alaska, 1948. 1948. 67 p.

RA 23. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1948-49. 1948. 26 p., illus.

RA 24. §

RA 25. Laws and regulations for protection of the commercial fisheries of Alaska, 1949. 1949. 62 p.

RA 26. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1949-50. 1949. 27 p., illus.

RA 27. §

RA 28. Laws and regulations for protection of the commercial fisheries of Alaska, 1950. 1950. 62 p.

RA 29. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1950-51. 1950. 27 p., illus.

RA 30. §

RA 31. Laws and regulations for protection of the commercial fisheries of Alaska, 1951. 1951. 61 p.

RA 32. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1951-52. 1951. 28 p., illus.

RA 33. §

RA 34. Federal aid in fish restoration, general information, by R. M. Rutherford. 1952. 13 p.

RA 35. Laws and regulations for protection of the commercial fisheries of Alaska, 1952. 1952. 61 p.

RA 36. §

RA 37. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1952-53. 1952. 30 p., illus.

RA 38. §

RA 39. Laws and regulations for protection of the commercial fisheries of Alaska, 1953. 1953. 62 p.

RA 40. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1953-54. 1953. 28 p., illus.

RA 41. §

RA 42. Laws and regulations for protection of the commercial fisheries of Alaska, 1954. 1954. 59 p.

RA 43. Regulations relating to game and fur animals, birds, and game fishes in Alaska, 1954-55. 1954. 29 p., illus.

RESEARCH REPORTS

RR 1. Studies on the handling of fresh mackerel, (Scomber scombrus), by M. E. Stansby and J. M. Lemon. 1941. 46 p., illus.

RR 2. Use of lime in controlling starfish, by Victor L. Loosanoff and James B. Engle. 1942. 29 p., illus.

*RR 3. The effect of heat and moisture on the feeding value of pilchard meal, by William B. Lanham, Jr., and Hugo W. Nilson. 1942. 10 p.

*RR 4. Metabolism studies with algin and gelatin, by Hugo W. Nilson and J. M. Lemon. 1942. 9 p.

RR 5. §

RR 6. Preparation and keeping quality of lightly smoked mackerel, by Maurice E. Stansby and Francis P. Griffiths. 1943. 10 p.

RR 7. Principles and methods in the canning of fishery products, by Norman D. Jarvis. 1944. 366 p., illus.

RR 8. §

RR 9. Determination of water quality, by M. M. Ellis, B. A. Westfall and Marion D. Ellis. 1946. 122 p., illus.

RR 10. §

RR 11. Reaction of oysters to chlorination, by Paul S. Galtsoff. 1946. 28 p., illus.

RR 12. Care and diseases of trout, by H. S. Davis. Rev. 1946. 1947. 98 p., illus.

RR 13. §

RR 14. Fluctuations in the abundance of the blue crab in Chesapeake Bay, by John C. Pearson. 1948. 26 p., illus.

RR 15. Shark fishing potentialities of the Philippine seas, by Herbert E. Warfel and John A. Clague. 1950. 19 p., illus.

RR 16. Notes on the biology of the tiger shark (Galeocerdo arcticus) from Philippine waters, by Donald E. Kauffman. 1950. 10 p., illus.

RR 17. Guide to the classification of fishing gear in the Philippines, by Agustin F. Umali. 1950. 165 p., illus.

RR 18. Curing of fishery products, by Norman D. Jarvis. 1950. 271 p., illus.

RR 19. §

RR 20. Check list of Philippine fishes, by Albert W. Herre. 1953. 977 p.

RR 21. Key to the families of common commercial fishes in the Philippines, by Agustin F. Umali. 1950. 47 p., illus.

RR 22. Fishing gear preservatives for Philippine waters, by John A. Clague and Bienvenido Datingaling. 1950. 23 p., illus.

RR 23. Liver oil properties of Phillippine sharks and rays, by William S. Hamm. 1950. 5 p.

RR 24. Temperature and salt purity effects on the manufacture of fish paste and sauce, by William S. Hamm and John A. Clague. 1950. 11 p., illus.

RR 25. Otter trawl explorations in Philippine waters, by Herbert E. Warfel and Porfirio R. Manacop. 1950. 49 p., illus.

RR 26. Fish processing handbook for the Philippines, by Arthur C. Avery. 1950. 149 p., illus. Drawings by Pio Medel.

RR 27. Bacteriological studies of Philippine fishery products, by John A. Clague and Crisanto Almario. 1950. 12 p.

RR 28. Outlook for development of a tuna industry in the Philippines, by Herbert E. Warfel. 1950. 37 p., illus. Drawings by Pablo Bravo.

RR 29. Growth of Pacific coast pilchard fishery to 1942, by Milner B. Schaefer, Oscar E. Sette, and John C. Marr. 1951. 31 p., illus.

RR 30. §

RR 31. Effect of floodwaters on oysters in Mississippi sound in 1950, by Philip A. Butler. 1952. 20 p., illus.

RR 32. Offshore grounds important to the United States haddock fishery, by Howard A Schuck. 1952. 20 p., illus.

RR 33. Fecundity of Hudson River shad, by Burton A. Lehman. 1953. 8 p., illus.

RR 34. Common tuna-bait fishes of the central Pacific, by Fred C. June and John W. Reintjes. 1953. 54 p., illus.

RR 35. Use of impounded water for fish culture, by Harlan E. Johnson and Richard F. Brice. 1953. 35 p., illus.

RR 36. Naxious marine animals of the central and western Pacific Ocean, by Charles J. Fish and Mary Curtis Cobb. 1954. 45 p., illus. Contribution no.708, Woods Hole Oceanographic Institution, Contribution no.8, Narragansett Marine Laboratory.

SEPARATES

*Sep 1. Draft deferment in fishery industries 3-6 p. From Fishery Market News, July 1942, v.4, no.7.

*Sep 2. Fish retailing in Boston, Massachusetts, by Ralph Russell and Keith O. Burr. 1-6 p. From Fishery Market News, Aug. 1942, v.4, no.8.

*Sep 3. Some notes on the rosefish fishery, by Frank E. Firth. p.17. From Fishery Market News, Aug. 1942, v.4, no.8.

*Sep 4. Critical Selective Service food processing classifications. p.7. From Fishery Market News, Sept. 1942, v.4, no.9.

*Sep 5. Food production in farm fish ponds, by M. C. James. 1-3 p. From Fishery Market News, Nov. 1942, v.4, no.11.

Sep 6. New weapon against oyster-killing starfish, by V. L. Loosanoff. 3-5p., illus. From Fishery Market News, Nov. 1942, v.4, no.11.

*Sep 7. The canning of Maine sea herring, by Buell W. Blair, E. J. Cameron and Norman D. Jarvis. 6-7 p. From Fishery Market News, Nov. 1942, v.4, no.11. Replaced by FL 104.

Sep 8. Utilization of rough fish in midwestern states as a food, by C. F. Culler. 1-3 p. From Fishery Market News, Jan. 1943, v.5, no.1.

Sep 9. Atlantic sea mussels as food, by V. L. Loosanoff. 4-5 p. From Fishery Market News, Jan. 1943, v.5, no.1.

Sep 10. Seasons, sources, and sizes of Gulf shrimp, by C. E. Peterson. 1-4. From Fishery Market News, Feb. 1943, v.5, no.2.

*Sep 11. Essential commercial fishing activities listed by Selective Service. p.11. From Fishery Market News. Feb. 1943, v.5, no.2.

*Sep 12. Some information on fishery manpower, prepared by Ralph Russell and Harry B. Hinkle. 1-6 p. From Fishery Market News, Mar. 1943, v.5, no.3.

*Sep 13. Optimum program for production of war foods prepared by Interior Department. 7-11 p. From Fishery Market News, Mar. 1943, v.5, no.3.

*Sep 14. The oyster canning industry in South Carolina, by Robert O. Smith. 11-13 p. From Fishery Market News, Mar. 1943, v.5, no.3.

*Sep 15. The Controlled Materials Plan with relation to the fishery industry, by L. S. Christey and E. A. Power. 1-4. From Fishery Market News, Apr. Supplement, 1943, v.5, no.4a.

*Sep 16. Preliminary report on definitions and recommended substitutes for vessel and gear cordage items, by C. B. Carlson, F. E. Firth, and L. S. Christey. 4-12 p. From Fishery Market News, Apr. Supplement, 1943, v.5, no.4a.

*Sep 17. Wartime transportation and the fishing industry, by A. W. Anderson. 37-57 p., illus. From Fishery Market News, Apr. Supplement, 1943, v.5, no.4a.

*Sep 18. Seed oyster production in South Carolina, by Robert O. Smith. 1-2 p. From Fishery Market News, Apr. 1953, v.5, no.4.

Sep 19. Loss in weight and mortality of sea mussels kept in storage at different temperatures, by V. L. Loosanoff and James B. Engle. 2-5 p. From Fishery Market News, Apr. 1943, v.5, no.4.

*Sep 20. Production of fishery products in Alabama, Louisiana, Mississippi, and Texas during 1942, by C. E. and Lorraine D. Peterson. 7-10 p. From Fishery Market News, Apr. 1943, v.5, no.4.

*Sep 21. Landings of fishery products at Boston, Massachusetts, 1942, by B. E. Lindgren. 1-9 p., illus. From Fishery Market News, May 1943, v.5, no.5.

*Sep 22. Partial index of federal controls pertinent to the fishing industry. (As issued up to May 1, 1943) 34-37 p. From Fishery Market News, May 1943, v.5, no.5.

Sep 23. The commercial importance of seaweed gums in the United States, by Victor B. Scheffer. 1-5 p. From Fishery Market News, June 1943, v.5, no.6. Superseded by FL 156.

*Sep 24. Brine salted mullet, by C. F. Lee and Leo Young. p. 5. From Fishery Market News, June 1943, v. 5, no. 6. Replaced by FL 51.

*Sep 25. Index of federal controls pertinent to the fishing industry. (Effective during May 1943) 64-65 p. From Fishery Market News, June 1943, v. 5, no. 6.

Sep 26. Compliance with the federal Food, Drug, and Cosmetic Act in the marketing of fishery products, by Albert C. Hunter. 1-3 p. From Fishery Market News, July 1943, v. 5, no. 7. Superseded by FL 172.

*Sep 27. Preservation and care of fish nets, by Frank E. Firth and Carl B. Carlson. 3-6 p. From Fishery Market News, July 1943, v. 5, no. 7.

*Sep 28. Control and distribution of fish supplies in Great Britain and Northern Ireland, by John Adamson. 6-8 p. From Fishery Market News, July 1943, v. 5, no. 7.

*Sep 29. Index of federal controls pertinent to the fishing industry. (Effective during June 1943) 48-50 p. From Fishery Market News, July 1943, v. 5, no. 7.

*Sep 30. Technological investigations - program of research 1943-44, by R. W. Harrison. 1-2 p. From Fishery Market News, Aug. 1943, v. 5, no. 8.

*Sep 31. Judging the quality and freshness of fish by organoleptic methods, by Maurice E. Stansby. 3-7 p. From Fishery Market News, Aug. 1943, v. 5, no. 8.

*Sep 32. Dry ice refrigeration of fresh fish fillets, by E. F. Kapalka and R. H. Flowers. 7-10 p., illus. From Fishery Market News, Aug. 1943, v. 5, no. 8. Superseded by FL 155.

*Sep 33. Keeping quality of east coast crab meat in fibre containers and in tin cans, by S. R. Pottinger. 10-12 p. From Fishery Market News, Aug. 1943, v. 5, no. 8. Superseded by FL 185.

Sep 34. The nutritive value of the protein of some dehydrated fishery products, by William A. Martinek and Barbara Jacobs. 12-14 p. From Fishery Market News, Aug. 1943, v.5 no.8.

Sep 35. Studies on substitute containers for canned fishery products, by Norman D. Jarvis and Lynn G. McKee. 14-16 p. From Fishery Market News, Aug. 1943, v.5, no.8.

*Sep 36. The suitability of non-tin containers for shipping fresh seafoods, by J. M. Lemon and S. R. Pottinger. 16-18 p. From Fishery Market News, Aug. 1943, v.5, no.8.

Sep 37. Effect of packaging methods on spoilage of crab meat, by Charles F. Shockey, Maurice E. Stansby, and R. Paul Elliott. 18-23 p. From Fishery Market News, Aug. 1943, v.5, no.8.

Sep 38. Studies on the icing of fresh-cooked east coast crab meat, by S. R. Pottinger. 23-25 p. From Fishery Market News, Aug. 1943, v.5, no.8.

Sep 39. Notes on canning ground fish, by Norman D. Jarvis. 25-27 p. From Fishery Market News, Aug. 1943, v.5, no.8.

*Sep 40. Receipts of fishery products at Seattle, 1942, by F. M. Wood. 1-7 p. From Fishery Market News, Sept. 1943, v.5, no.9.

*Sep 41. Index of federal controls pertinent to the fishing industry. (Effective during July 1943) 42-44 p. From Fishery Market News, Sept. 1943, v.5, no.9.

*Sep 42. Index of federal controls pertinent to the fishing industry. (Effective during Aug. 1943). 79-80 p. From Fishery Market News, Oct. 1943, v.5, no.10.

Sep 43. Preliminary notes on dogfish as a food, by D. L. Bucher and K. L. Osterhaug. 24-25 p. From Fishery Market News, Oct. 1943, v.5, no.10.

*Sep 44. The agar situation, by Leonard S. Stoloff. 1-5 p., illus. From Fishery Market News, Nov. 1943, v.5, no.11. Superseded by FL 173.

Sep 45. The value of plankton as a food, by Louella E. Cable. 6-12 p., illus. From Fishery Market News, Nov. 1943, v.5, no.11.

*Sep 46. Some technical notes on the handling of Alaskan sleeper shark, by Lyle Anderson. 12-13 p. From Fishery Market News, Nov. 1943, v.5, no. 11.

Sep 47. Notes on the commercial fisheries of Lake Okeechobee, by C. West Jacocks. 13-15 p., illus. From Fishery Market News, Nov. 1943, v.5, no.11.

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*Sep 48. Index of federal controls pertinent to the fishing industry. (Effective during September and October 1943) 45-49 p. From Fishery Market News, Nov. 1943, v.5, no.11.

*Sep 49. Report of the Alaska crab investigation. Appendix 2- Fishing gear. 82-95 p., illus. From Fishery Market News, May 1942 - Supplement, v.4, no.5a.

Sep 50. Report of the Alaska crab investigation. Appendix 3 - Canning king crabs. 96-103 p. From Fishery Market News, May 1942 - Supplement. v.4, no.5a.

Sep 51. The relative productivity and value of the fisheries of the United States and Alaska, by Arthur M. Sandberg. 1-7 p. From Fishery Market News, Dec. 1943, v.5, no.12.

*Sep 52. Index of federal controls pertinent to the fishing industry. (Effective during November and December 1943) 35-38 p. From Fishery Market News, Dec. 1943, v.5, no.12.

*Sep 53. Index to volume 5, nos. 1 to 12, inclusive, 1943. 39-53 p. From Fishery Market News, Dec. 1943, v.5, no.12.

Sep 54. Fighting fibers, by Frank E. Firth. 2-5 p. From Fishery Market News, Jan. 1944. v.6, no.1. Superseded by FL 111.

*Sep 55. Smoking anglerfish, sea trout and spanish mackerel, by Leo Young and N. D. Jarvis. 6-7 p. From Fishery Market News, Jan. 1944, v.6, no.1.

Sep 56. The effect of technological advances on the western North Atlantic fisheries, by A. W. Anderson. 1-3 p., illus. From Fishery Market News, Feb. 1944, v.6, no. 2.

Sep 57. The marketing of rajafish in New England, by Henry M. Bearse. 4-5 p., illus. From Fishery Market News, Feb. 1944, v.6, no.2.

*Sep 58. Receipts of fishery products at Chicago, 1943, by E. C. Hinsdale. 2-7 p. From Fishery Market News, Mar. 1944, v.6, no.3.

*Sep 59. Index of federal controls, pertinent to the fishing industry. (Effective during January and February 1944) 39-41 p. From Fishery Market News, Mar. 1944, v.6, no.3.

*Sep 60. Coordinator's office discusses 1944 fish production. 9-10 p. From Fishery Market News, Mar. 1944, v.6, no.3.

Sep 61. The effect of OPA'S MPR-507 on fresh fish prices, by Richard A. Kahn. 2-4 p. From Fishery Market News, Apr. 1944, v.6, no.4.

Sep 62. The anglerfish, by Henry M. Bearse. 4-7 p., illus. From Fishery Market News, Apr. 1944, v.6, no.4.

Sep 63. A study of the nutritive value of the protein of cooked angler fish, rajafish, and bay mussels, by William A. Martinek. 7-9 p. From Fishery Market News, Apr. 1944. v.6, no.4.

Sep 64. Fish ceiling prices in 301 A. D., by Richard A. Kahn. 2-4 p. From Fishery Market News, May 1944, v.6, no. 5.

*Sep 65. Production of fishery products in Alabama, Louisiana, Mississippi, and Texas during 1943, by Lorraine D. Peterson. 4-8 p. From Fishery Market News, May 1944, v.6, no.5.

Sep 66. Preliminary report on a drill sampling device for fish livers, by Charles F. Shockey and F. Bruce Sanford. 9-10 p., illus. From Fishery Market News, May 1944, v.6, no.5.

Sep 67. Food supplies of U. S., Canada and Great Britain compared. 10-12 p. From Fishery Market News, May 1944, v.6, no.5.

Sep 68. Observations on the shark fishery in the central part of the Gulf of California with records of vitamin potency of liver oils and with keys to the identification of commercially important sharks, by Lionel A. Walford. 2-7 p., illus. From Fishery Market News, June 1944, v.6, no.6. Superseded by FL 121.

Sep 69. Social security protection for fishermen, by Arthur J. Altmeyer. 2-3 p. From Fishery Market News, July 1944, v.6, no.7.

*Sep 70. The fisheries of the world, by Arthur M. Sandberg. 4-12 p., illus. From Fishery Market News, July 1944, v.6, no.7. Superseded by FL 109.

*Sep 71. Opportunities for small business in the fisheries of the Pacific Northwest and Alaska, by M. E. Stansby. 2-6 p. From Fishery Market News, Aug. 1944, v.6, no.8.

*Sep 72. Some time and labor saving techniques in vitamin A and oil analysis, by F. B. Sanford, G. C. Bucher and W. Clegg. 6-8 p., illus. From Fishery Market News, Aug. 1944, v.6, no.8.

Sep 73. Comparable values of fibers for use in commercial fisheries, by Frank E. Firth. 9-10 p. From Fishery Market News, Aug. 1944, v.6, no.8. Superseded by FL 111.

*Sep 74. Manila rope restrictions again tightened by M-84. 12-20 p. From Fishery Market News, Aug. 1944, v.6, no.8.

*Sep 75. WFA net weights and coversion factors for fishery products summarized. 21-23 p. From Fishery Market News, Aug. 1944, v.6, no.8. Superseded by FL 139.

*Sep 76. Landings of fishery products at Boston, Mass., 1943, by B. E. Lindgren. 2-9 p. From Fishery Market News, Sept. 1944, v.6, no.9.

Sep 77. Frozen fish belongs in your locker plant, by L. S. Christey. 10-12 p. From Fishery Market News, Sept. 1944, v.6, no.9.

Sep 78. The distribution of fish by frozen food locker plants, by Leo Young. 12-15 p., illus. From Fishery Market News, Sept. 1944, v.6, no.9.

Sep 79. Department of Labor aids fishing industry in many fields. 15-17 p. From Fishery Market News, Sept. 1944, v.6, no.9.

*Sep 80. A comparison of controlled and uncontrolled fish prices in New York City, by Eunice M. Werner. 2-8 p. From Fishery Market News, Oct. 1944, v.6, no.10.

*Sep 81. The ragfish, by Glenn C. Bucher and Kathryn L. Osterhaug. p. 9. From Fishery Market News, Oct. 1944, v.6, no. 10.

*Sep 82. Storage tests on frozen pink salmon, by Dorris L. Bucher. 2-4 p. From Fishery Market News, Nov. 1944, v.6, no.11.

*Sep 83. Studies on the icing of fresh-cooked and peeled shrimp, by E. F. Kapalka and S. R. Pottinger. 4-6 p., illus. From Fishery Market News, Nov. 1944, v.6, no. 11.

*Sep 84. Drill sampling device for fish livers. 1. Constructional details, by L. G. McKee, F. B. Sanford and G. C. Bucher. 6-11 p., illus. From Fishery Market News, Nov. 1944, v.6, no.11. Superseded by FL 141.

*Sep 85. Receipts of fishery products at Seattle, 1943, by E. C. Hinsdale. 2-10 p. From Fishery Market News, Dec. 1944, v.6, no. 12.

Sep 86. Index to volume 6, nos.1 to 12, inclusive, 1944. 28-40 p. From Fishery Market News, Dec. 1944, v.6, no.12.

*Sep 87. Preliminary report on sampling of fish livers, by G. C. Bucher, W. S. Hamm, F. B. Sanford and W. Clegg. 2-5 p. From Fishery Market News, Jan. 1945, v.7, no.1. Superseded by FL 289.

*Sep 88. Distribution of oil and vitamin A in fish livers, by Glenn C. Bucher, William Clegg and F. Bruce Sanford. 6-8 p., illus. From Fishery Market News, Jan. 1945, v.7, no.1. Superseded by FL 290.

*Sep 89. The calculation of the vitamin A potency of fish livers, by F. Bruce Sanford. 8-9 p. From Fishery Market News, Jan. 1945, v.7, no.1.

Sep 90. Food consumption of deep-sea fishermen, by Ruth M. Lusby and Lucille S. Binson. 2-7 p. From Fishery Market News, Feb. 1945, v.7, no.2.

Sep 91. Survey of available and potential fish waste for reduction in Washington and Oregon, by Charles Butler. 8-15 p. From Fishery Market News, Feb. 1945, v.7, no.2.

*Sep 92. Grayfish liver trading on a potency basis fosters conservation, by F. B. Sanford. p. 16. From Fishery Market News, Feb. 1945, v.7, no. 2.

Sep 93. Nomograph for the determination of liver potency, by F. Bruce Sanford, Manuel Cantillo, and Glenn C. Bucher. 16-19 p. From Fishery Market News, Feb. 1945, v.7, no.2.

Sep 94. Fetal livers of the grayfish, by F. B. Sanford, K. Bonham, W. Clegg, and G. C. Bucher. p. 19. From Fishery Market News, Feb. 1945, v.7, no. 2.

*Sep 95. Production of fishery products in Alabama, Louisiana, Mississippi, and Texas during 1944, by Lorraine D. Peterson. 2-8 p. From Fishery Market News, Mar. 1945, v.7, no.3.

Sep 96. Institutional advertising of fishery products, by Keith O. Burr. 8-11 p. illus. From Fishery Market News, Mar. 1945, v.7, no.3.

Sep 97. How oil and vitamin A are determined in fish livers, by F. B. Sanford and G. C. Bucher. 11-3 p., illus. From Fishery Market News, Mar. 1945, v.7, no.3.

*Sep 98. Field method for determination of the oil content of fish livers, by F. Bruce Sanford, Manuel Cantillo, and Glenn C. Bucher. 2-3 p. From Fishery Market News, Apr. 1945, v.7, no.4. Superseded by FL 205.

Sep 99. A preliminary report on an alkali process for the manufacture of commercial oil from salmon cannery trimmings, by Lyle Anderson. 4-7 p., illus. From Fishery Market News, Apr. 1945, v.7, no.4.

*Sep 100. A rapid method for determining the vitamin A potency of fish livers, by F. Bruce Sanford. 7-8 p. From Fishery Market News, Apr. 1945, v.7, no.4. Superseded by FL 242.

Sep 101. Rope cod ends, by Carl B. Carlson. 2-4 p., illus. From Fishery Market News, May 1945, v.7, no.5.

Sep 102. North Atlantic fish production; national importance, possibilities, and bottlenecks to increased production, by William C. Herrington. 4-7 p. From Fishery Market News, May 1945, v.7, no.5.

*Sep 103. Effect of fish liver freshness on E value ratios of resulting oil, by W. Clegg, F. Bruce Sanford, and M. E. Stansby. 7-8 p. From Fishery Market News, May 1945, v.7, no.5.

*Sep 104. War-time studies of containers and substitute containers for fresh fishery products, by S. R. Pottinger, E. F. Kapalka, and C. F. Shockey. 2-18 p. From Fishery Market News, June 1945, v.7, no.6.

*Sep 105. Receipts of fishery products at Seattle, 1944, by E. C. Hinsdale. 2-13 p. From Fishery Market News, July 1945, v.7, no.7.

*Sep 106. An interview with personnel of a Russian floating crab cannery, by Carl B. Carlson. 13-17 p., illus. From Fishery Market News, July 1945, v.7, no.7.

*Sep 107. Antioxidants for fish oils, by Dorris L. Bucher. 17-19 p., illus. From Fishery Market News, July 1945, v.7, no.7.

Sep 108. Have you a program for increasing your sales of fishery products? By Leo Young. 2-4 p. From Fishery Market News, Aug. 1945, v.7, no.8.

*Sep 109. Smoking shrimp, by Leo young. 2-4 p., illus. From Fishery Market News, Sept. 1945, v.7, no.9. Superseded by FL 312.

*Sep 110. Notes on the icing of fish at sea, by Boris O. Knake. 4-6 p., illus. From Fishery Market News, Sept. 1945, v.7, no.9. Superseded by FL 189.

Sep 111. Problems of taxation of fishery cooperatives, by Richard A. Kahn. 2-4 p. From Fishery Market News, Oct. 1945, v.7, no.10.

Sep 112. Great Lakes production of salt (flat) lake herring, 1941-1944, by John Van Oosten. 4-5 p. v.7, no.10.

*Sep 113. Fishing hoop nets in Florida, by Kenneth P. Foster. 5-7 p., illus. From Fishery Market News, Oct. 1945, v.7, no.10.

Sep 114. The effect of DDT upon the Chesapeake Bay blue crab (Callinectes sapidus), by Leslie A. Sandholzer. 2-4 p. From Fishery Market News, Nov. 1945, v.7, no.11.

*Sep 115. Vitamin A analyses of two shark livers, by David Miyauchi and F. Bruce Sanford. 5-6 p. From Fishery Market News, Nov. 1945, v.7, no.11.

Sep 116. The ratfish, by F. B. Sanford, W. Clegg, and K. Bonham. 6-7 p. From Fishery Market News, Nov. 1945, v.7, no.11.

Sep 117. Vitamin A potencies of livers of mature female grayfish caught in Hecate Strait, by F. Bruce Sanford. 7-8 p. From Fishery Market News, Nov. 1945, v.7, no.11.

*Sep 118. Receipts of fishery products at Chicago, 1944, by Walter W. Donovan. 2-4 p. From Fishery Market News, Dec. 1945, v.7, no.12.

*Sep 119. Future of marketing, by F. L. Thomsen. 4-8 p., illus. From Fishery Market News, Dec. 1945, v.7, no.12.

Sep 120. Index to volume 7, nos. 1 to 12, inclusive, 1945. 27-43 p. From Fishery Market News, Dec. 1945, v.7, no.12.

Sep 121. The shrimp fishery of the southern United States, by W. W. Anderson, M. J. Lindner and J. E. King. 1-17 p., illus. From Commercial Fisheries Review, Feb. 1949, v. 11, no. 2. Superseded by FL 368.

Sep 122. Service activities in the Atlantic States, by Milton C. James. 1-5 p., illus. From Commercial Fisheries Review, Jan. 1946, v. 8, no. 1.

*Sep 123. Fish production at New Bedford, by William F. Royce. 5-8 p., illus. From Commercial Fisheries Review, Jan. 1946, v. 8, no. 1.

Sep 124. Paper bags for fish meal, by Charles Butler. 9-12 p., illus. From Commercial Fisheries Review, Jan. 1946, v. 8, no. 1.

Sep 125. Imported fish; a major New England problem, by William C. Herrington. 1-16 p., illus. From Commercial Fisheries Review, Feb. 1946, v. 8, no. 2.

Sep 126. Thiamine assays of fishery products, by Philip M. Sautier. 17-19 p. From Commercial Fisheries Review, Feb. 1946, v. 8, no. 2.

*Sep 127. Fishery statistics, by E. A. Power. 1-11 p., illus. From Commercial Fisheries Review, Mar. 1946, v. 8, no. 3.

Sep 128. A bacteriological study of fresh mussels, by Leslie A. Sandholzer and William Arcisz. 12-15 p., illus. From Commercial Fisheries Review, Mar. 1946, v. 8, no. 3.

*Sep 129. A rapid test for vitamin A stability, by F. B. Sanford, R. W. Harrison and M. E. Stansby. 16-18 p., illus. From Commercial Fisheries Review, Mar. 1946, v. 8, no. 3. Superseded by FL 212.

Sep 130. Riboflavin assays of fishery products, by Philip M. Sautier. 19-21 p., illus. From Commercial Fisheries Review, Mar. 1946, v. 8, no. 3.

*Sep 131. Fish for breakfast — and why not? By Kathryn L. Osterhaug. 1-4 p., illus. From Commercial Fisheries Review, Apr. 1946, v. 8, no. 4. Superseded by FL 247.

*Sep 132. Preservation of shucked Alaska clams, by Frank Piskur and Maurice E. Stansby. 5-12 p., illus. From Commercial Fisheries Review, Apr. 1946, v. 8, no. 4.

Sep 133. Vitamin A and D in fish livers and viscera, by Charles Butler. 13-19 p. From Commercial Fisheries Review, Apr. 1946, v. 8, no. 4.

*Sep 134. The Army's wartime fishery research, by Frank Piskur. 1-9 p., illus. From Commercial Fisheries Review, May 1946, v. 8, no. 5.

Sep 135. A tripod derrick for small fishing vessels, by Boris O. Knake. 10-13 p., illus. From Commercial Fisheries Review, May 1946, v. 8, no. 5.

*Sep 136. Fishery receipts at Seattle, 1945, by E. C. Hinsdale. 14-17 p., illus. From Commercial Fisheries Review, May 1946, v. 8, no. 5.

Sep 137. Fish jaw oil, by Joseph F. Puncochar. 18-19 p., illus. From Commercial Fisheries Review, May 1946, v. 8, no. 5.

Sep 138. Gloucester - three centuries a fishing port, by Homer Haberland. 1-5 p., illus. From Commercial Fisheries Review, June 1946, v. 8, no. 6. Superseded by FL 192.

Sep 139. Grayfish liver color related to finspine length, by F. B. Sanford and K. Bonham. 6-8 p., illus. From Commercial Fisheries Review, June 1946, v. 8, no. 6.

Sep 140. Conversion of salmon cannery to clam packing, by L. G. McKee. 9-11 p., illus. From Commercial Fisheries Review, June 1946, v. 8, no. 6.

*Sep 141. A cardboard smokehouse, by Walter A. Rust. 1-4 p., illus. From Commercial Fisheries Review, July 1946, v.8, no. 7. Superseded by FL 204.

Sep 142. Feeding fish meal to ducklings, by Hugo W. Nilson. 5-7 p., illus. From Commercial Fisheries Review, July 1946, v.8, no. 7.

Sep 143. The Japanese salmon industry. 8-19 p., illus. From Commercial Fisheries Review, July 1946, v.8, no. 7. From Report no. 31, Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers. Superseded by FL 230.

SEP 144. Agar-weed, a fishery resource, by Vincent J. Senn. 1-4 p., illus. From Commercial Fisheries Review, Aug. 1946, v.8, no. 8.

Sep 145. The content of certain amino acids in seafoods, by S. R. Pottinger and W. H. Baldwin. 5-9 p., illus. From Commercial Fisheries Review, Aug. 1946, v.8, no. 8.

Sep 146. Nutritive value of the protein of swellfish, by Dorothy B. Darling and Hugo W. Nilson. 10-11 p., illus. From Commercial Fisheries Review, Aug. 1946, v.8, no. 8.

Sep 147. Feeding fish meals to pullets, by Hugo W. Nilson and Richard W. Schayer. 1-5 p., illus. From Commercial Fisheries Review, Sept. 1946, v.8, no. 9.

*Sep 148. Wrapping materials for frozen fish, by Martin Heerdt, Jr. p. 6, illus. From Commercial Fisheries Review, Sept. 1946, v. 8, no. 9. Superseded by FL 213.

Sep 149. Workmen's compensation for seamen, by M. D. Kossoris and Joseph Zisman. 7-14 p., illus. From Commercial Fisheries Review, Sept. 1946, v.8, no. 9.

*Sep 150. Haiti and its fisheries, by C. R. Lucas, 1-3 p., illus. From Commercial Fisheries Review, Oct. 1946, v.8, no. 10.

*Sep 151. Palatability of Pacific rockfish fillets, by R. Paul Elliott and Kathryn L. Osterhaug. 4-8 p., illus. From Commercial Fisheries Review, Oct. 1946, v.8, no. 10. Superseded by FL 264.

*Sep 152. Panama and its fisheries, by C. R. Lucas. 1-2 p., illus. From Commercial Fisheries Review, Nov. 1946, v.8, no. 11.

Sep 153. A sampler for livers frozen in drums, by Lynn G. McKee and F. Bruce Sanford. 3-5 p., illus. From Commercial Fisheries Review, Nov. 1946. v.8, no. 11.

Sep 154. Oyster transplanting in winter and early spring, by Victor Loosanoff. 6-8 p., illus. From Commercial Fisheries Review, Nov. 1946, v.8, no. 11.

Sep 155. Extension of unemployment insurance to certain fishing services, by Richard A. Kahn. 9-12 p., illus. From Commercial Fisheries Review, Nov. 1946, v.8, no. 11.

Sep 156. Effect of cooking on the nutritive value of the protein of cod, by A. Louise Marks and Hugo W. Nilson. 1-6 p., illus. From Commercial Fisheries Review, Dec. 1946, v.8, no. 12.

Sep 157. Gear used in the sea scallop fishery, by William F. Royce. 7-11 p., illus. From Commercial Fisheries Review, Dec. 1946, v.8, no. 12. Superseded by FL 225.

Sep 158. Thiamine and riboflavin in baked and simmered oysters, by A. Louise Marks and Hugo W. Nilson. 12-13 p., illus. From Commercial Fisheries Review, Dec. 1946, v.8, no. 12.

Sep 159. The location of sardine schools by super-sonic echo-ranging, by Osgood R. Smith. 1-6 p., illus. From Commercial Fisheries Review, Jan. 1947, v.9, no. 1.

Sep 160. Bacteriological studies of oyster conditioning, by Leslie A. Sandholzer and Cecelia R. Buckner. 7-11 p., illus. From Commercial Fisheries Review, Jan. 1947, v.9, no. 1.

*Sep 161. "S.S. Pacific Explorer"-- A preliminary description, by Carl B. Carlson. 12-17 p., illus. From Commercial Fisheries Review, Jan. 1947, v.9, no. 1. See also FL 414.

*Sep 162. Receipts of fishery products at Chicago, 1945, by C. M. Reardon. 18-21 p., illus. From Commercial Fisheries Review, Jan. 1947, v.9, no. 1.

*Sep 163. Preliminary procedures for the analysis of vitamin A in fishery byproducts. 40-42 p. From Commercial Fisheries Review, Jan. 1947, v.9, no. 1.

Sep 164. The electrostatic smoking of sardines, by William S. Hamm and Walter A. Rust. 104 p., illus. From Commercial Fisheries Review, Feb. 1947, v.9, no. 2.

*Sep 165. Shallower storage pens improve fish quality, by Joseph F. Puncochar and Samuel R. Pottinger. 5-6 p., illus. From Commercial Fisheries Review, Feb. 1947, v.9, no. 2.

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