

United States Department of the Interior
Fish and Wildlife Service

Fishery Leaflet 9

Washington 25, D. C.

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AVAILABLE PUBLICATIONS ON FISHERIES

Compiled in the Division of Information

The publications listed herein include contributions by the Bureau of Fisheries both before and after its transfer from the Department of Commerce to the Department of the Interior in 1939 and contributions on fishery subjects by the Fish and Wildlife Service, which was formed in 1940 by consolidation of the Bureau of Fisheries and the Bureau of Biological Survey. Lists of available publications on wildlife subjects also may be had from the Fish and Wildlife Service.

SALE COPIES

Publications preceded by a star (*) can be obtained only by purchase from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., at the prices stated. Remittances should be sent direct to the Superintendent of Documents--NOT to the Department or the Service. The Superintendent of Documents will furnish Price List 21 on request. This list relates to publications on fishes and wildlife, including shellfishes, fisheries, mammals, and birds. Lists of publications on related subjects by other Government agencies are issued also by the Superintendent of Documents.

FREE COPIES

Publications listed without a star and the processed leaflets beginning on page 7 can be obtained free from the Fish and Wildlife Service, Department of the Interior, Washington 25, D. C.

The supply for free distribution of the publications and processed leaflets is limited, hence no more than 1 copy each of 5 publications may be sent free to an individual. Additional copies of printed publications may be purchased from the Superintendent of Documents, and for convenience in purchasing the price of each is indicated. In all requests, please mention the series, the number, and the title of each of the publications desired and list them in numerical order by series.

DOCUMENTS

- *669 Doc. A practical method of sponge culture.
- *793 Doc. The protection of fresh-water mussels.
- *879 Doc. Artificial propagation of the Pacific salmon.
- *890 Doc. The oyster and the oyster industry of the Atlantic and Gulf Coast.
- *904 Doc. Fishes of the Yellowstone National Park, with description of the park waters and notes on fishing. 5¢
- *934 Doc. Kentucky River and its mussel resources. 5¢
- *952 Doc. Toxicities of coal tar creosote, creosote distillates, and individual constituents for marine wood borer Limnoria lignorum. 5¢
- *955 Doc. Artificial propagation of brook trout and rainbow trout, with notes on three other species. 25¢
- *967 Doc. Iodine content of sea foods. 5¢
- *977 Doc. Digestive enzymes in poikilothermal vertebrates, an investigation of enzymes in fishes, with comparative studies on those of amphibians, reptiles, and mammals. 10¢
- *981 Doc. Artificial propagation of shad. 10¢
- 1000 Doc. Nutritive value of fish and shellfish, 1925.
- *1006 Doc. Fisheries of Siberia (with bibliography). 10¢
- *1013 Doc. Descriptions of two new species of fishes from Key West, Fla., with notes on nine other species collected in same locality. 10¢
- *1021 Doc. Investigations concerning red salmon runs to Karluk River, Alaska. 25¢
- *1026 Doc. Trade in fresh and frozen fishery products and related marketing considerations, St. Louis, Mo. 10¢
- *1032 Doc. Production and distribution of cod eggs in Massachusetts Bay in 1924 and 1925. 15¢
- *1041 Doc. Statistical review of Alaska salmon fisheries: Pt. I, Bristol Bay and Alaska Peninsula. 20¢
- *1047 Doc. Experiments in marking young chinook salmon on Columbia River, 1916 - 1927. 40¢
- *1048 Doc. Coregonid fishes of the Great Lakes (with bibliography). \$1.10
- *1054 Doc. Investigation of physical conditions controlling spawning of oysters and occurrence, distribution, and setting of oyster larvae in Milford Harbor, Conn. 25¢
- *1056 Doc. Propagation of pondfishes. 10¢
- *1063 Doc. Keokuk Dam and fisheries of Upper Mississippi River. 30¢
- *1065 Doc. Bibliography on cod-liver oil in animal feeding, with non-critical comments and abstracts. 10¢
- *1074 Doc. Statistics of haddock fishery in North American waters. 5¢
- *1075 Doc. Net preservative treatments. 5¢
- *1080 Doc. Contributions to biology of Pacific herring, (Clupea pallasii), and condition of fishery in Alaska. 35¢
- *1087 Doc. Review of fisheries of California. 10¢
- *1089 Doc. Commercial snappers (Lutianidae) of Gulf of Mexico. 10¢
- *1091 Doc. A biological study of offshore waters of Chesapeake Bay. 30¢
- *1094 Doc. Oxygen consumption of normal and green oysters. 10¢
- *1097 Doc. Blood of North American fresh-water mussels under normal and adverse conditions. 20¢

DOCUMENTS -- CONT'D.

- *1101 Doc. The age and growth of the Pacific cockle (Cardium corbis martyn). 10¢
*1102 Doc. Statistical review of the Alaska salmon fisheries: Pt. II. Chignik to Resurrection Bay. 25¢

FISHERY BULLETINS

- *9 Bull. Fluctuations in the supply of herring (Glupea pallasii) in Prince William Sound, Alaska. 10¢
22 Bull. Detection and measurement of stream pollution. (Out of print).
*24 Bull. Further notes on the development and life history of some teleosts at Beaufort, N. C. 30¢
*26 Bull. The geographic distribution and environmental limitations of the Pacific salmon (Genus oncorhynchus). 10¢
*27 Bull. The salmon and salmon fisheries of Swiftsure Bank, Puget Sound, and Fraser River. 30¢
*29 Bull. Effect of currents on distribution and survival of eggs and larvae of haddock (Melanogrammus aeglefinus). 15¢
*30 Bull. The early life histories of some American Penaeidae, chiefly the commercial shrimp, Penaeus setiferus (Linn.). 20¢
*31 Bull. Natural history and method of controlling the starfish (Asterias forbesi). 20¢
*33 Bull. Spawning and setting of oysters in Long Island Sound in 1937. 15¢
*36 Bull. The young of some marine fishes taken in lower Chesapeake Bay, Va., with special reference to the gray sea trout, (Cynoscion regalis). 10¢
*37 Bull. The salmon runs of the Columbia River in 1938. 10¢
*38 Bull. Biology of the Atlantic mackerel; early life history. 20¢
*39 Bull. Fluctuations in abundance of red salmon, Karluk River, Alaska. 25¢
*40 Bull. Whitefish fishery of Lakes Huron and Michigan with special reference to the deep-trap-net fishery. 35¢
*41 Bull. Studies of the protozoan parasites of fresh-water fishes. 30¢
*42 Bull. Effect of micro-organisms on the feeding of oysters. 20¢
43 Bull. Studies on effect of pulp-mill waste on York River oysters. 50¢
44 Bull. Contributions to the biology of the Pacific tunas. 15¢
45 Bull. Age and growth of immature rosefish (Sebastes marinus) in the Gulf of Maine and off Western Nova Scotia. 15¢
46 Bull. Notes on the Philippine frigate mackerels, Family Thunnidae, genus Auxis. 10¢
47 Bull. Definitions of body dimensions used in describing tunas. 5¢
48 Bull. Observations on juvenile oceanic skipjack (Katsuwonus pelamis) from Hawaiian waters and sierra mackerel (Scomberomorus sierra) from the eastern Pacific. 5¢

CONSERVATION BULLETIONS

- 28 CB. Home canning of fishery products. 10¢
33 CB. Food from the sea; fish and shellfish of New England. 15¢
34 CB. Food from home waters; fishes of the Middle West. 15¢

CONSERVATION BULLETIONS -- CONT'D.

- 35 CB. Fish stocking as related to the management of inland waters.
- 37 CB. Fish and shellfish of the South Atlantic and Gulf coasts. 10¢
- 38 CB. Fish and shellfish of the Middle Atlantic coast. 15¢

CONSERVATION IN ACTION

- *5 CIA. Guarding our wildlife resources. 30¢

REGULATORY ANNOUNCEMENTS

- 25 RA. Laws and Regulations for protection of the commercial fisheries of Alaska, 1949.
- 26 RA. Regulations relating to game and fur animals, birds and game fishes in Alaska, 1949-50.

CIRCULARS

- *4 C. A crisis in the haddock fishery. 5¢
- *12 C. Propagation of minnows and other bait species. 35¢
- *14 C. English and local common names of Philippine fishes. 25¢
- *15 C. Effects of DDT and other insecticides on fish and wildlife: summary of investigations during 1947. 10¢

ECONOMIC CIRCULARS

- 16 EC. Concerning mortality of soft clams at Essex, Mass. (1915)
- 21 EC. Information concerning parasitic worms in fish. (1916)
- 28 EC. Preserving fish for domestic use. (1917)
- 31 EC. The carp: valuable food resource, with 23 recipes. (1917)
- 35 EC. Sharks as food: with 30 recipes.
- 40 EC. The capture and marketing of carp. (1918)
- 42 EC. Parasites of fresh-water fishes. (1919)
- 51 EC. Sources, preparation and properties of some algal gelatines.
- 53 EC. Brine freezing of fish.
- 54 EC. Trade in fresh and frozen fishery products and related market considerations in Chicago, Ill.
- 57 EC. Mussel survey of Lake Pepin in 1924.
- 58 EC. Oysters: An important health food, with 98 recipes. (1925)
- 71 EC. Fur seal industry of the Pribilof Islands, Alaska. (1930)
- 72 EC. The Bureau of Fisheries and its biological station at Beaufort, North Carolina.
- 73 EC. A cursory survey of the Blue River System of Nebraska. (1931)

FISHERY CIRCULARS

- 3 FC. Market for fresh oysters in 14 cities of United States. (1931)
- 4 FC. Outlook for mackerel fishery in 1931.
- 5 FC. Survey of conditions affecting fisheries in upper Mississippi River. (1931)
- 9 FC. A summary of game fish laws for 1932 with special reference to black bass.

FISHERY CIRCULARS -- CONT'D.

- 10 FC. Outlook for the mackerel fishery in 1932.
- 11 FC. Some unusual markets for fish and shellfish. (1932)
- 12 FC. Introduction of Japanese oysters into United States. (1932)
- 13 FC. Sport fishing in Alaska. (1933)
- 14 FC. Outlook for the mackerel fishery in 1933.
- 15 FC. Aquatic shell industries, 1934.
- 17 FC. Outlook for the mackerel industry, 1934.
- 19 FC. Practical fish cookery, 1935.
- 20 FC. A summary of game fish laws for 1935-36 with special reference to black bass.
- 24 FC. A summary of game fish laws for 1936-37 with special reference to black bass.
- 28 FC. Propagation of bait and forage fish, 1939.

STATISTICAL DIGESTS

- *1 SD. Fishery statistics of the United States, 1939. 25¢
- *2 SD. Alaska fishery and fur-seal industries, 1940. 15¢
- 3 SD. Propagation and distribution of food fishes, fiscal year 1941.
- 4 SD. Fishery statistics of the United States, 1940.
- *5 SD. Alaska fishery and fur-seal industries, 1941.
- 6 SD. Propagation and distribution of food fishes, calendar year 1941.
- 7 SD. Fishery statistics of the United States, 1941.
- 8 SD. Alaska fishery and fur-seal industries, 1942.
- 9 SD. Propagation and distribution of food fishes, 1942.
- *10 SD. Alaska fishery and fur-seal industries, 1943. 15¢
- *11 SD. Fishery statistics of the United States, 1942. 60¢
- 12 SD. Propagation and distribution of food fishes, calendar year 1943.
- *13 SD. Alaska fishery and fur-seal industries, 1944. 20¢
- *14 SD. Fishery statistics of the United States, 1943. 75¢
- *15 SD. Alaska fishery and fur-seal industries, 1945. 25¢
- *16 SD. Fishery statistics of the United States, 1945. \$1.00
- *17 SD. Alaska fishery and fur-seal industries, 1946. 25¢
- *18 SD. Fishery statistics of the United States, 1946. \$1.50

RESEARCH REPORTS

- *1 RR. Studies on the handling of fresh mackerel. 10¢
- *4 RR. Metabolism studies with algin and gelatin. 5¢
- *6 RR. Preparations and keeping quality of lightly smoked mackerel. 5¢
- *7 RR. Principles and methods in the (commercial) canning of fishery products. \$1.00
- *9 RR. Determination of water quality. 30¢
- *11 RR. Reaction of oysters to chlorination. 10¢
- *12 RR. Care and diseases of trout. 35¢
- *14 RR. Fluctuations in the blue crab industry of Chesapeake Bay. 10¢

ANNUAL REPORTS

- 1942 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1942.
- 1943 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1943.

ANNUAL REPORTS -- CONT'D.

- 1944 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1944.
1945 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1945.
1946 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1946.
1947 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1947.
1948 AR. Annual Report of the Director of Fish and Wildlife Service to the Secretary of the Interior, 1948.

INVESTIGATIONAL REPORTS

- *3 IR. Vitamin D in menhaden fish oils. 5¢
*5 IR. Spectrographic analysis of marine products. 5¢
9 IR. Reducing the shrinkage of frozen fish in cold storage.
10 IR. Winter trawl fishery off Virginia and North Carolina coasts. 10¢
19 IR. Statistics of the mackerel fishery off the east coast of North America 1804 to 1930. 5¢
20 IR. Studies on the smoking of haddock. 5¢
23 IR. Studies on the metabolism of copper. 5¢
24 IR. Modifications in gear to curtail the destruction of undersized fish in otter trawling. 5¢
25 IR. The iodine content of some American fishery products. 5¢
26 IR. Fishery for red snappers and groupers in the Gulf of Mexico. 5¢
27 IR. Chemical and physical properties of haddock-liver oil and its vitamin content. 5¢
28 IR. Studies on the utilization of swordfish livers. 5¢
30 IR. Effect of manufacture on the quality of non-oily fish meals. 5¢
32 IR. Studies on drying cod and haddock waste.
33 IR. Physical and chemical changes in the pink salmon during the spawning migration. 5¢
36 IR. Vitamin content of salmon oils from cannery trimmings from Columbia River and Puget Sound regions. 5¢
37 IR. Cause of the decline of the oyster industry of the York River, (Va.) and the effects of pulp mill pollution on oysters. 10¢
38 IR. Marketing of shad on Atlantic coast. 10¢
39 IR. Trade in fresh and frozen fishery products and related marketing considerations in the San Francisco Bay area. 10¢
40 IR. Pacific salmon oils. 5¢
42 IR. A plan for the development of the Hawaiian fisheries. 5¢
44 IR. Study of the metabolism of naturally occurring fluorine in canned salmon and mackerel. 5¢

PROCESSED LEAFLETS

Abstracts:

232 FL. Fishery technology abstract card system.

Agar:

- 118 FL. Agar, agaroids, and the American agar industry.
156 FL. Commercial importance of seaweed gums in the United States.
173 FL. Agar and other seaweed gums: A summary of data on chemical and physical properties.
261 FL. Partial bibliography relating to agar.
263 FL. Japanese agar agar industry.
306 FL. Strength measurement of agar gels.
307 FL. Syneresis of agar gels.,.
335 FL. Studies of bacteriological agar.
144 Sep. Agar-weed, a fishery resource.

Age:

100 FL. Determination of age in fishes.

Alaska:

- 77 FL. Fur seal industry of the Pribilof Islands.
95 FL. The latent fisheries of Washington and Alaska.
107 FL. Opportunities for small business in the fisheries of Pacific Northwest and Alaska.
252 FL. Decline and rehabilitation of the southeastern Alaska herring industry.
298 FL. Employment possibilities in the Alaskan fishing industry.
299 FL. Legislation for the protection of the Alaskan fur seal herd.
322 FL. Fishery industries of Alaska and their administration.
330 FL. Experimental fishing trip to Bering Sea.
342 FL. Report of Alaska exploratory fishing expedition, fall of 1948 to northern Bering Sea.
46 Sep. Notes on handling Alaska sleeper shark.
49 Sep. Fishing gear, Alaska crab investigations.
50 Sep. Canning king crabs, Alaska crab investigations.
FMN Supp. May 1942. The Alaska king crab.
FMN Supp. July 1945. Commercial possibilities of shrimp resources, in certain southeastern Alaska areas.
(See salmon.)

Alewives or river herring:

- 26 FL. Salted river herring, Chesapeake Bay.
42 FL. Restoration and management of alewife fisheries with special reference to Maine.

Alligators:

- 91 FL. Care of turtles and small alligators.
164 FL. Alligators.

Ambergris:

- 280 FL. Ambergris.
281 FL. Ambergris in perfume extracts.

Anglerfish:

- 62 Sep. The anglerfish. Apr. 1944.
63 Sep. Study of the nutritive value of protein in cooked anglerfish, rajafish, and Bay mussels.

Aquarium fishes:

- 43 FL. Care of aquarium fishes (with special reference to tropical fishes).
57 FL. Care of goldfish.
165 FL. Some tropical fishes.
315 FL. Aquarium construction in the home workshop.
323 FL. Snails.
331 FL. Culture of daphnia.

Baits:

- 23 FL. Earthworms for bait.
28 FL. Fish baits; their collection, care, preparation, and propagation.
87 FL. Preservation of salmon eggs for bait.
191 FL. Partial list of dealers in bait fishes.
337 FL. Keeping live shrimp for bait.

Bass:

- 76 FL. The black basses.
136 FL. Dry-salting mullet, red drum (channel bass) king-fish (king mackerel).
175 FL. Striped bass (Roccus saxatilis).

Bibliographies or lists of publications:

- 6 FL. Some publications on fish culture.
9 FL. Available publications on fisheries.
24 FL. List of publications on farm fish ponds.
25 FL. Publications on sea moss.
58 FL. Some publications on diseases and parasites of fishes.
160 FL. List of trade journals and newspapers concerning fishery products.
162 FL. Publications on aquatic biology.
218 FL. List of books on angling and fishery equipment.
243 FL. Some publications on aids to small business.
261 FL. A partial bibliography relating to agar.
265 FL. Bibliography on preservation of fishery products by freezing.

Bloaters:

- 196 FL. Smoking herring.

Breathing:

- 55 FL. Breathing in fishes.

Burbot:

- 21 FL. How to cook burbot.

Canning:

- 37 FL. Canning Atlantic and Gulf oysters.
78 FL. Historical outline of commercial canning fishery products.
79 FL. Operations involved in commercial canning.

Canning--Continued:

- 80 FL. Canning salmon (commercial).
- 81 FL. Commercial canning of sardines.
- 82 FL. Canning tuna commercially.
- 83 FL. Commercial canning of mackerel, other fishes, and pet food.
- 84 FL. Commercial canning of clams, oysters, mussels and squid.
- 85 FL. Commercial canning of crabs, lobsters, and shrimps.
- 86 FL. Commercial canning of specialty products: fish balls, clam chowder, fish cakes, turtles and terrapins, frog legs, and clam bisque.
- 87 FL. Commercial canning of fish roe and caviar.
- 88 FL. Canning products hermetically sealed but not processed: anchovies, codfish, smoked herring, bismarck herring, oysters, west coast crabmeat, smoked salmon, shrimp, and seafood cocktails.
- 89 FL. Spoilage in canned fishery products.
- 90 FL. Nutritive value of canned fishery products.
- 104 FL. Canning Maine sea herring.
- 180 FL. Home canning of fish.
- 295 FL. Chemical composition of some canned fishery products.
- 314 FL. Canned crab industry of Japan.
- 39 Sep. Notes on canning ground fish.
- 50 Sep. Canning Alaska king crabs.

Capture, methods of

- 49 FL. Otter trawl net for small fishing boat.
- 61 FL. Capturing and marketing of garfish (with special reference to those of Louisiana) and recipes for their preparation.
- 64 FL. Construction and operation of lobster fishing gear.
- 115 FL. Handling fresh fish.
- 127 FL. Eel fishing and eel pots.
- 195 FL. Partial list of manufacturers of fish netting, nets, twine, rope, fish hooks, and some types of fish equipment.
- 198 FL. Haddock (*Melanogrammus aeglefinus*).
- 199 FL. New rig for high opening otter trawl.
- 216 FL. Diamond-back terrapin culture.
- 225 FL. Gear used in the sea scallop fishery.
- 245 FL. Balloon trawl construction (Long Island type).
- 291 FL. Trot-line construction, operation and maintenance (Chesapeake Bay type).
- 302 FL. Kite rigs for otter trawl gear.
- 343 FL. Floating trawls.
- 348 FL. German commercial electrical fishing device.
- 49 Sep. Gear used in fishing Alaska king crabs.
- 113 Sep. Fishing hoop nets in Florida.

Carp:

- 19 FL. Cooking carp.
- 34 FL. A manual for demonstrating the cooking of carp.
- 122 FL. Smoking lake herring, whitefish, lake trout, and carp.

Catfish:

- 133 FL. The catfishes.

Caviar:

87 FL. Canning fish roe and caviar (commercially).

Clams:

13 FL. Commercial clams of the Atlantic Coast of the United States,
84 FL. Commercial canning of clams and clam juice.
86 FL. Commercial canning of specialty products.
223 FL. Commercial clams of the Pacific coast.
176 Sep: Technological study of ocean quahog fishery.

Cod:

45 FL. Brine-cured cod.
269 FL. Cod...the beef of the sea.

Conservation:

77 FL. Alaska fur seal industry of the Pribilof Islands, Alaska.
3-1586 Functions and activities of the Fish and Wildlife Service.
(See oysters, trout, and other species, also Annual Reports
and Conservation Bulletin Series).

Consumption of fish:

287 FL. Per capita consumption of fish only 13.3 pounds (1935).
352 FL. United States per capita consumption of fishery products
(1949).

Cookery: (See recipes).

Cooperatives:

277 FL. Organizing and incorporating fishery cooperative marketing
associations.
292 FL. List of Fishery Cooperative Associations in the United States
and Alaska.

Corals:

183 FL. Some publications on corals.

Crabs:

71 FL. Edible crabs.
85 FL. Canning crabs, lobsters, and shrimp (commercially).
88 FL. Canning west coast crabmeat (commercially).
185 FL. Keeping quality of east coast crab meat in fibre board
containers and tin cans.
184 FL. Chesapeake Bay soft crab industry.
262 FL. Crab pot construction (Chesapeake Bay type).
276 FL. The "bob" method of picking blue crabs.
282 FL. The blue crab (Callinectes sapidus).
291 FL. Trot-line construction, operation, and maintenance (Chesapeake
Bay type).
314 FL. Canned crab industry of Japan.
340 FL. Contribution to the biology of the king crab (Paralithodes
cantschatica tilesius).
49 Sep. Gear used in fishing Alaskan king crabs.
50 Sep. Canning Alaskan king crabs.
191 Sep. The Chesapeake Bay blue crab industry.

Crayfish:

131 FL. Fresh-water crayfish.

Culture:

6 FL. Some publications on fish culture.
10 FL. Use of sodium arsenite in controlling submerged vegetation.
13 FL. Commercial clams of the Atlantic Coast of the United States.
17 FL. Construction of farm ponds.
24 FL. List of publications on farm fish ponds.
27 FL. Farm fish ponds and their management.
41 FL. List of State-owned fish hatcheries and rearing stations.
46 FL. Dealers in trout and pondfishes.
56 FL. Fish distribution boat.
59 FL. Construction of a garden fish pool.
65 FL. Outlet gate for farm fish ponds.
70 FL. Treatment of fish diseases.
97 FL. Fish culture as a livelihood.
102 FL. Frog culture and the frog industry.
114 FL. Crustaceans as food for fishes.
131 FL. Crayfish (fresh-water): habits, industry, extermination.
142 FL. Spiny lobster: natural history and experiment in hatching.
145 FL. Pearl culture.
147 FL. List of Federal fish cultural stations.
148 FL. An improved fish trap for taking spawners.
186 FL. Non-gilling fish sorter.
216 FL. Diamond-back terrapin.
217 FL. Aquatic plant control with 2, 4-D.
221 FL. Temperature and fishes.
222 FL. Disease control in hatchery fish.
223 FL. Commercial clams of the Pacific coast of the United States.
325 FL. The nutrition of fish in hatcheries: a literature review.
331 FL. Culture of daphnia.
344 FL. Control of aquatic plants in ponds and lakes.

Daphnia:

114 FL. Crustaceans as food for fishes in fish culture.
331 FL. Culture of daphnia.

DDT:

146 FL. Preliminary report on use of DDT as an insecticide in the fishery industry.

Dealers and processors:

178 FL. Partial list of fishing boat builders.
191 FL. Dealers in bait fishes.
193 FL. Partial list of dealers in goldfish, aquarium fishes, plants, and accessories.
(Lists of dealers and processors of fishery products for many regions and cities are available upon request.)

Decomposition:

89 FL. Spoilage in canned fishery products.

Dehydration:

120 FL. Dehydration of fishery products.

Diseases and parasites:

- 58 FL. Some publications on diseases and parasites of fishes.
- 70 FL. Treatment of fish diseases.
- 112 FL. Mortality of fish in fresh water ponds and lakes.
- 222 FL. Disease control in hatchery fish.

Dogfish: (See sharks and c .s).

Drum:

- 134 FL. The black drum.
- 136 FL. Dry-salting mullet, red drum (channel bass), and kingfish (king mackerel).

Eels:

- 127 FL. Eel fishing and eel pots.

Factory ship:

- 301 FL. Suggestions for operators of tuna receiving ships.
- 316 FL. S. S. Pacific Explorer - Part III below deck arrangements and refrigeration equipment.
- 326 FL. S. S. Pacific Explorer - Part IV - Personnel and the movement of materials.
- 161 Sep. S. S. Pacific Explorer - A preliminary description.

Farm ponds:

- 10 FL. Use of sodium arsenite in controlling submerged vegetation.
- 17 FL. Construction of farm ponds.
- 24 FL. List of publications on farm fish ponds.
- 27 FL. Farm fish ponds and their management.
- 65 FL. Outlet gate for farm fish ponds.

Fins:

- 8 FL. Fishes with fins and scales.

Fish culture: (See culture and farm ponds).

Fish and Wildlife Service:

- 97 FL. Fish culture as a livelihood.
- 101 FL. Survey of academic qualifications for fishery biologists and of institutional facilities.
- 3-1586 Functions and activities of the Fish and Wildlife Service.

Fisheries:

- 47 FL. Fisheries of North America (with map).
- 95 FL. The latent fisheries of Alaska and Washington.
- 107 FL. Opportunities for small business in the fisheries of the Pacific Northwest and Alaska.
- 108 FL. Relative productivity and value of fisheries of the United States and Alaska.
- 109 FL. Fisheries of the world.
- 168 FL. Instructions for obtaining laws and regulations governing the commercial fishing industry of the United States and Alaska.

Fisheries--Continued:

- 192 FL. Gloucester: three centuries a fishing port.
- 303 FL. The Economic Cooperation Administration and the fishery industries.
- 313 FL. The Economic Cooperation Program as it affects the fishery industries.
- 220 Sep. United States per capita consumption of fishery products.
- 222 Sep. United States policy with regard to high seas fisheries.
- 225 Sep. Fishery exploration in the Western Pacific (Jan. to June 1948) by vessels of the Pacific Exploration Co.

Fishermen:

- 124 FL. Dermatitis in the fish industry.
- 140 FL. Fish poisoning and its prevention.
- 149 FL. Unemployment insurance: Chesapeake Bay States, Maryland and Virginia.
- 150 FL. Unemployment insurance: Middle Atlantic States, New York, New Jersey, Pennsylvania, and Delaware.
- 151 FL. Unemployment insurance: New England States, Maine, New Hampshire, Rhode Island, and Connecticut.
- 152 FL. Unemployment insurance: South Atlantic States, North Carolina, South Carolina, Georgia, and Florida.
- 153 FL. Unemployment insurance: Pacific Coast States, Washington, Oregon, and California.
- 154 FL. Unemployment insurance: Gulf States, Alabama, Mississippi, Louisiana, and Texas.
- 171 FL. Unemployment insurance: Great Lakes States, Minnesota, Wisconsin, Illinois, Michigan, and Ohio.
- 155 Sep. Extension of unemployment insurance to certain fishing services.

Food value:

- 36 FL. Food value of fish and shellfish.
- 90 FL. Nutritive value of canned fishery products.
- 116 FL. Composition of fish.
- 295 FL. Chemical composition of some canned fishery products.
- 296 FL. A method for evaluation of the nutritive value of a protein.
- 334 FL. The effect of a seafood diet on the red cell.
- 63 Sep. Nutritive value of protein of cooked anglerfish, rajafish, and Bay mussels.
- 145 Sep. The content of certain amino acids in seafoods.
- 146 Sep. Nutritive value of protein of swellfish.
- 156 Sep. Effect of cooking on the nutritive value of protein of cod.
- 158 Sep. Thiamine and riboflavin in baked and simmered oysters.
- 171 Sep. Nutritive value of baked croaker.
- 178 Sep. Nutritive value for growth of some fish proteins.
- 182 Sep. Some studies on the content of thiamine and anti-thiamine factor in fishery products.
(See Vitamin A).

Foreign fisheries:

Africa

- 251 FL. Gold Coast Sea fisheries.
- 305 FL. Guano Islands, Union of South Africa.

Foreign fisheries--Continued:

Africa-Cont'd.

- 341 FL. The sponge fishing industry in Libya.
- 347 FL. Growth of South African fisheries.

Arabia

- 328 FL. Fishing industry of the Gulf of Aden.

Canada

- 253 FL. Manitoba's fresh water fishing industry.

Caribbean Area

- 228 FL. Fisheries in St. Lucia (British West Indies).
- 250 FL. The Cuban shark industry.
- 259 FL. Fishery resources of the Caribbean area.
- 284 FL. Cuban frog leg industry.
- 294 FL. Cuba's spiny lobster industry.
- 308 FL. Cuban fishing industry.
- 150 Sep. Haiti and its fisheries.
- 152 Sep. Panama and its fisheries.

Germany

- 206 FL. Certain aspects of the German fishing industry (Report I - Fish processing machinery).
- 207 FL. Certain aspects of the German fishing industry (Report II - Quick freezing and cold storage of Fish).
- 208 FL. Certain aspects of the German fishing industry (Report III - Smoke curing of fish).
- 209 FL. Certain aspects of the German fishing industry (Report IV - The preservation of fish by canning and related processes).
- 210 FL. Certain aspects of the German fishing industry (Report V - Weiking Eiweiss - Protein product manufactured from fish).
- 211 FL. Certain aspects of the German fishing industry (Report VI - Institute for the utilization of fish of the Federal Fisheries Agency).
- 348 FL. German commercial electrical fishing device.

Iceland

- 257 FL. State trading in Iceland with respect to its fisheries.
- 345 FL. Whale and fish oils.

Iran

- 304 FL. Fish of the Persian and Oman Gulf.

Foreign fisheries--Continued:

Japan

- 157 FL. Japanese fishing industry.
- 220 FL. Glossary of Japanese fishery terms.
- 229 FL. Operation fisheries in Japan.
- 230 FL. The Japanese salmon industry.
- 234 FL. Japanese fishing gear.
- 236 FL. Fishery research and education in Japan.
- 244 FL. Conversion of selected Japanese weights and measures.
- 248 FL. Japanese whaling in the Bonin Island Area.
- 249 FL. Natural resources of Japan.
- 263 FL. Japanese agar agar industry.
- 268 FL. Japan's big fishing companies.
- 273 FL. Fisheries of former Japanese mandated islands.
- 279 FL. Japanese fisheries production, 1908-46.
- 288 FL. The Japanese fishing industry.
- 297 FL. The Japanese tuna fisheries.
- 309 FL. Japanese sponge culture experiments in South Pacific Islands.
- 314 FL. Canned crab industry of Japan.
- 333 FL. Aquatic resources of the Ryukyu area.
- 346 FL. U. S. special mission reviews Japanese fisheries situation.
- 235 Sep. Japanese methods of oyster culture.

Mexico

- 260 FL. Mexican fishery legislation.
- 283 FL. Mexican fishery law of December 31, 1947.
- 339 FL. The Mexican fisheries industry.
- 212 Sep. The fisheries and fishery resources of Mexico.

Micronesia

- 239 FL. Fishery resources of Micronesia.

Newfoundland

- 256 FL. Outlook for Newfoundland fisheries, 1947.

Philippines

- 210 Sep. The marketing and processing of fish in the Philippines.

Red Sea

- 310 FL. Production of edible fish in the Red Sea.

South America

- 75 FL. The Peruvian fisheries.
- 227 FL. Fishing industry of Ecuador,
- 240 FL. The Venezuelan salt-fish industries.
- 266 FL. Fisheries of Uruguay.

Foreign fisheries--Continued:

South America-Cont'd.

- 267 FL. Sao Paulo fishing industry (Brazil).
329 FL. Fishing industry in Brazil.
338 FL. Fishery regulations of Venezuela, including a section on import duties for products connected with the fishing industry.
349 FL. Fishing and fisheries (Brazil).
227 Sep. The United States fishery mission to Venezuela.

Spain

- 188 FL. Tuna industry of southern Spain.
271 FL. Spanish fishing industry, 1946.
272 FL. Volume and value of catch of fish and shellfish landed at Malaga, 1946.

Sweden

- 327 FL. The fishing industry and the market for fish in Sweden.

Turkey

- 238 FL. The sponge industry in Turkey.

Frogs:

- 86 FL. Canning frog legs (commercial).
102 FL. Frog culture and the frog industry.
284 FL. Cuban frog leg industry.

Gambusia:

- 67 FL. The top minnow, Gambusia - the mosquito destroyer.

Gar:

- 61 FL. Capture and marketing of garfish, with recipes for cooking.

Gasteropod:

- 39 FL. Utilization of echinoderms and of gasteropod mollusks.

Gear:

(See capture).

Goldfish:

- 57 FL. Care of goldfish.
59 FL. Construction of a garden fish pool.

Haddock:

- 198 FL. Haddock (Melanogrammus aeglefinus).
217 Sep. Current haddock situation on George's Bank.

Herring:

- 26 FL. Salted river herring (alewives) in Chesapeake Bay.
88 FL. Commercial canning of herring.

Herring--Continued:

- 104 FL. Canning Maine sea herring.
- 122 FL. Smoking lake herring, whitefish, lake trout, and carp.
- 196 FL. Smoking of herring.
- 252 FL. Decline and rehabilitation of the southeastern Alaska herring fishery.

Jellyfish:

- 68 FL. Sea nettles or jellyfish.

Kelp:

- 156 FL. The commercial importance of seaweed gums in the United States.

Kingfish:

- 136 FL. Dry-salting kingfish.

Ladder or fishway:

- 92 FL. Fishway for small streams.

Lake trout:

- 15 FL. Lake trout.
- 122 FL. Smoking lake herring, whitefish, lake trout, and carp.

Laws:

- 168 FL. Instructions for obtaining laws and regulations governing commercial fishing industry of United States and Alaska.
- 172 FL. Compliance with Federal food, drug, and cosmetic Act in marketing fishery products.
- 299 FL. Legislation for protection of Alaska fur-seal herd.
- 222 Sep. United States policy with regard to high seas fisheries.

Lists, partial:

- 160 FL. Partial list of trade journals and newspapers concerning fishery products.
- 195 FL. Partial list of manufacturers of fishing gear and accessories.
- 254 FL. Fishery associations in the United States and Alaska.
- 255 FL. Fishery motion pictures.
- 292 FL. Fishery cooperative associations in the United States and Alaska.
- 293 FL. Fishermen's and fish shore-worker's unions in the United States, Alaska, and Hawaii.

Lobsters:

- 64 FL. Construction and operation of lobster fishing gear.
- 74 FL. The American lobster (Homarus americanus).
- 85 FL. Commercial canning of lobsters.
- 142 FL. The spiny lobster.
- 294 FL. Cuba's spiny lobster industry.
- 229 Sep. Spiny lobster, identification, world distribution and U. S. trade.

Mackerel:

- 83 FL. Commercial canning of mackerel.
- 136 FL. Dry-salting mullet, red drum (channel bass), kingfish, and (king mackerel).

Marine borers:

3 FL. Shipworms and other marine borers.

Marketing:

115 FL. Handling fresh fish.
172 FL. Compliance with the Federal Food, Drug, and Cosmetic Act
in the marketing of fishery products.
243 FL. Aids for small business.
258 FL. Retailing fish.
336 FL. Quarterly outlook for marketing fishery products.
201 Sep. Fish marketing in Colorado and the development of greater
markets.

Marking fish: (See Tagging).

Meal (Fish):

126 FL. Fish reduction processes.
159 FL. Condensed fish press water and fish liver meal in chick
rations,
142 Sep. Feeding fish meal to ducklings.
147 Sep. Feeding fish meal to pullets.
181 Sep. Some studies on the freezing value of fish meals.
185 Sep. Chemical studies of lipid extracts from menhaden fish meal.
218 Sep. Fat in fish meal.

Menhaden:

FMN.Supp. May 1945 experimental purse seine fishing for menhaden with
the Jeff Davis.

Minnow:

28 FL. Fish baits, their collection, care, preparation, and
propagation.

Mollusks:

13 FL. Soft and hard clams, Atlantic coast,
39 FL. Utilization of echinoderms and gasteropod mollusks.
145 FL. Pearl culture.
19 Sep. Loss in weight and mortality of sea mussels kept in storage
at different temperatures, April 1943.
(See oysters, clams, mussels).

Mortality:

112 FL. Mortality of fishes in fresh-water ponds and lakes.

Mullet:

48 FL. Striped mullet and their preparation for the table.
51 FL. Brine-salted mullet.
136 FL. Dry-salting mullet, red drum (channel bass), kingfish and
(king mackerel).

Muskellunge:

166 FL. The pikes.

Mussels, fresh water:

246 FL. Fresh-water mussel shells.

Mussels, sea:

- 11 FL. Sea mussels.
- 84 FL. Commercial canning of sea mussels.
- 19 Sep. Loss of weight and mortality of sea mussels kept in storage at different temperatures.

Nets:

- 49 FL. Otter trawl net for small fishing boats.
- 66 FL. Preservation and care of fish nets.
- 111 FL. Comparable values for fibres for use in commercial fisheries.
- 125 FL. How to make and mend nets.
- 177 FL. Tests on cordages made from various fibres.
- 241 FL. Methods of net mending in New England.
- 113 Sep. Fishing with hoop nets in Florida.

Nutrition: (See food values).

Oils, marine animal:

- 121 FL. Observations on the shark fishery, central Gulf of Calif., and vitamin potency of oil.
- 126 FL. Fish reduction processes.
- 141 FL. Drill sampling device for fish livers (constructional details).
- 205 FL. Field method for determining oil content of fish livers.
- 233 FL. Fish liver oil industry.
- 289 FL. Preliminary report on sampling of fish livers.
- 345 FL. Whale and fish oils (Iceland).
(See vitamin A).

Oysters:

- 22 FL. Increasing production of oysters and other shellfish.
- 50 FL. Preparation of fresh eastern oysters for market.
- 52 FL. Planting and marketing oysters, Pacific northwest.
- 84 FL. Commercial canning of oysters.
- 187 FL. The oyster and the oyster industry in the United States.
- 154 Sep. Oyster transplanting in winter and early spring.
- 160 Sep. Bacteriological studies of oyster conditioning.
- 205 Sep. A serious situation confronting the oyster industry.
- 213 Sep. Some data on pH and freshness of shucked eastern oysters.
- 214 Sep. Management of the oyster resources.
- 215 Sep. Sanitary control practices for the oyster industry.
- 216 Sep. Mechanization of oyster cultivation. Part I: Recent developments in oyster dredges.
- 235 Sep. Japanese methods of oyster culture.

Parasites: (See diseases).

Pearls and pearl shell industries:

- 145 FL. Pearl culture.
- 246 FL. Fresh-water mussel shells.

Pickling: (See salting).

Pike:

- 166 FL. The pikes.

Fish control (aquatic):

- 10 FL. Use of sodium arsenite for controlling submerged vegetation in fishponds.
217 FL. Aquatic plant control with 2, 4-D.
344 FL. Control of aquatic plants in ponds and lakes.

Poisoning:

- 124 FL. Dermatitis in the fish industry.
140 FL. Fish poisoning and its prevention.

Pollution:

- 174 FL. Stream pollution hazards of wood pulp mill effluents.

Quality:

- 94 FL. Judging the quality and freshness of fish by organoleptic methods.
274 FL. Evaluation of surface pH as a freshness index for fillets.
213 Sep. Some data on pH and freshness of shucked eastern oysters.
221 Sep. Preliminary study of total bacterial plate count method for fishery products.

Ragfish:

- 81 Sep. The ragfish (Acrotus willoughbi).

Rains of fishes:

- 130 FL. Rains of fishes, toads, and frogs.

Rays:

- 123 FL. Sharks, skates, and rays.

Recipes:

- 19 FL. Cooking carp.
21 FL. How to cook the burbot.
30 FL. Cooking shark, shad, and lingcod.
31 FL. Some South American fish recipes.
33 FL. Whalemeat recipes.
34 FL. Demonstration manual for cooking carp.
35 FL. Fish cookery in the open.
48 FL. Striped mullet and preparation for table.
53 FL. Sauces for seafood.
61 FL. Garfish recipes.
69 FL. Markets and recipes for fresh-water turtles.
106 FL. How to cook fish.
194 FL. Recipes for Pacific rockfish.
202 FL. Pacific salmon.
247 FL. Fish for breakfast and why not?
269 FL. Cod...the beef of the sea.
275 FL. Fish and shellfish canapes and hors d'oeuvres.
285 FL. Rosefish recipes.
320 FL. Rosefish cookery - a demonstration manual.

Red snapper:

- 195 Sep. Experimental fishing for red snapper (use of hoop nets).
198 Sep. Experimental fishing for red snapper (use of mechanical reels).

Refrigeration:

- 115 FL. Handling fresh fish.
- 128 FL. Refrigerated locker storage of fish for home use.
- 155 FL. Dry ice refrigeration of fresh fish fillets.
- 181 FL. Fish can be stored in refrigerated lockers with other food.
- 189 FL. Icing fish at sea.
- 203 FL. Quick freezing techniques.
- 213 FL. Wrapping materials for frozen fish.
- 214 FL. Fish refrigeration.
- 278 FL. Freezing fish at sea.
- 286 FL. Steps in the handling of frozen fish in the freezer warehouse.
- 324 FL. Packaging frozen fishery products.
- 332 FL. Recording color changes in frozen pink salmon.
- 165 Sep. Shallower storage pens improve fish quality.
- 166 Sep. Toughening of frozen crab meat can be retarded.
- 189 Sep. Notes on freezing shrimp.
- 192 Sep. Suggestions for handling trawler-caught fish.
- 209 Sep. Effect of refreezing on quality of sea trout fillets.
- FMN Supp. Fresh and frozen fishery products fishery manual, 1941.

Reproduction:

- 182 FL. Reproduction in fishes.

Retailing fish: (See marketing).

Rotenone:

- 350 FL. The use of rotenone as fish poison.

Salmon:

- 14 FL. Pacific salmons.
- 60 FL. Mild curing, pickling, dry salting, and smoking salmon.
- 80 FL. Canning salmon commercially.
- 87 FL. Salmon eggs for fish bait.
- 176 FL. Atlantic salmon (Salmo salar).
- 332 FL. Recording color changes in frozen pink salmon.

Salting:

- 18 FL. Salting, smoking, and other methods of curing fish at home (except canning).
- 26 FL. Salting river herring, Chesapeake Bay.
- 38 FL. Brine salted herring.
- 45 FL. Brine cured cod.
- 51 FL. Brine salted mullet.
- 60 FL. Mild curing pickling, dry salting, and smoking salmon.
- 136 FL. Dry salting mullet, red drum (channel bass), and kingfish (king mackerel).
- 196 FL. Smoked herring (bloaters).
(See smoking).

Sanitation:

- 187 Sep. Bacterial population of brining tanks in fish filleting plants.
- 215 Sep. Sanitary control practices for the oyster industry.

Sardines:

- 5 FL. The story of sardines (pilchards).
81 FL. Commercial canning of sardines.
129 FL. The Pacific sardine fishery.
270 FL. The electrostatic smoking of sardines.
159 Sep. Location of sardine schools by supersonic echo-ranging.

Scales:

- 8 FL. Presence of scales and fins in fishes.
100 FL. Determination of the age of fishes.

Scallops:

- 225 FL. Gear used in the sea scallop fishery.

Seals:

- 77 FL. Fur seal industry, Pribilof Islands, Alaska.

Sea Nettles:

- 68 FL. Sea nettles or jellyfish.

Sea urchin:

- 231 FL. The sea urchin fishery.

Seaweed and sea moss:

- 25 FL. List of publications on sea moss.
156 FL. Commercial importance of seaweed gums in U. S.
(See agar).

Senses of fishes:

- 55 FL. Breathing in fishes.
132 FL. Structure and senses of fishes.

Shad:

- 30 FL. Recipes for cooking shark, shad, and lingcod.
179 FL. The shad (Alosa sapidissima).

Sharks:

- 30 FL. Recipes for cooking shark, shad, and lingcod.
99 FL. Extraction of vitamin A from dogfish livers.
121 FL. Shark fishery in central part of Gulf of Calif.; vitamin potency of liver oils; key to identification of commercially important sharks.
123 FL. Sharks, skates, and rays.
135 FL. Commercial shark fishing in Caribbean Area.
250 FL. Cuban shark industry: Cuban Government fosters fishing cooperatives.
46 Sep. Technical notes on commercial handling of Alaska sleeper shark.
(See oil).

Shellfish: (See oyster, clam, and other species).

Shipworm:

- 3 FL. Shipworms and other marine borers.

Shrimp:

- 85 FL. Commercial canning of shrimp.
- 312 FL. Smoking shrimp.
- 318 FL. Notes on shrimp fishing along the New England coast.
- 319 FL. The shrimp and the shrimp industry of the South Atlantic and Gulf of Mexico.
- 337 FL. Keeping live shrimp for bait.
- 121 Sep. Shrimp fisheries of the southern United States.
- 189 Sep. Notes on freezing shrimp.
- 219 Sep. Gulf coast shrimp fisheries, January-June 1948.

Skate:

- 123 FL. Sharks, skates, and rays.

Smoking:

- 18 FL. Home preservation of fishery products: salting, smoking, and other methods (except canning).
- 60 FL. Mild curing, pickling, dry-salting, and smoking salmon.
- 122 FL. Smoking lake herring, whitefish.
- 196 FL. Smoked herring.
- 204 FL. A cardboard smokehouse.
- 270 FL. Electrostatic smoking of sardines.
- 312 FL. Smoking shrimp.

Snails:

- 323 FL. Snails.

Sodium arsenite:

- 10 FL. Use of sodium arsenite for controlling submerged vegetation in fish ponds.

Spiny lobster:

- 142 FL. Natural history; and experiments in hatching.
- 294 FL. Cuba's spiny lobster industry.
- 229 Sep. Spiny lobster, identification, world distribution and U. S. trade.

Sponges:

- 4 FL. Sponges.
- 170 FL. Sponge production and international sponge trade, of the United States.
- 238 FL. The sponge industry in Turkey,
- 309 FL. Japanese sponge culture experiments in the South Pacific Islands.
- 341 FL. The sponge fishing industry in Libya (Africa).

Starfish:

- 169 FL. Controlling the starfish (Asterias forbesi).
- 193 Sep. Starfish control: economic necessity and methods of control.
- 196 Sep. Chemical composition of starfish.
- 199 Sep. Starfish meal as protein supplement for growth of rats and chicks and for egg production.
- 204 Sep. Thiaminase in starfish.
- 206 Sep. Starfish as fertilizer.
- 208 Sep. Economic considerations in the utilizations of starfish.

Statistics:

- 108 FL. Relative productivity and value of fisheries of the United States and Alaska.
109 FL. Fisheries of the world.
197 FL. Fishery statistics.
(Current fishery statistical leaflets: landings at certain ports; cold storage holdings of fishery products; daily, monthly, and annual summaries of fishery products are available upon request).

Structure of fishes:

- 132 FL. Structure and senses of fishes.

Tagging fish:

- 113 FL. Tagging and marking fish.

Transportation:

- 115 FL. Handling fresh fish.

Trout:

- 15 FL. Lake trout.
98 FL. Lock loven (Salmo levenensis).
122 FL. Smoking lake herring, whitefish, lake trout, and carp.
235 FL. The Kamloops rainbow trout.

Tuna:

- 82 FL. Commercial canning of tuna.
188 FL. The tuna industry of southern Spain.
297 FL. Japanese tuna fisheries.
301 FL. Suggestions for operators of tuna-receiving ships.

Turtles-terrapin:

- 69 FL. Markets and recipes for fresh-water turtles.
86 FL. Commercial canning of turtles and terrapin.
91 FL. Care of turtles and small alligators.
161 FL. Ridding ponds of turtles.
190 FL. Turtle trapping.
216 FL. Diamond-back terrapin culture.

Vessels:

- 167 FL. Fishing vessels of New England and New York City, 1945.
200 Sep. Albatross III, fishery research vessel.

Vitamin A:

- 138 FL. Time and labor saving techniques in vitamin A and oil analysis.
212 FL. A rapid test for vitamin A stability.
226 FL. How oil and vitamin A are determined in fish livers.
237 FL. Calculation of vitamin A potency of fish livers.
290 FL. Distribution of oil and vitamin A in fish livers.
163 Sep. Preliminary procedures for analysis of vitamin A in fishery byproducts.
167 Sep. Studies on deterioration of vitamin A in fish livers and liver oils, Part I.

Vitamin A--Continued:

- 170 Sep. Studies in deterioration of vitamin A in fish livers and liver oils, Part III.
173 Sep. Studies in deterioration of vitamin A in fish livers and liver oils, Part II.
180 Sep. Estimations of extinction ratios and vitamin A potency of 12 reduction plant oils.
183 Sep. Ultraviolet absorption curves for vitamin A using tungsten and hydrogen discharge light sources.
184 Sep. Relationship between body length of grayfish and vitamin A in liver.
186 Sep. Studies on methods of extracting vitamin A and oil from fishery products, Part I.
190 Sep. Vitamin A content of fur seal oils.
224 Sep. Studies on methods of extracting vitamin A and oil from fishery products, Part II.
226 Sep. E value ratios for some commercial vitamin A oils.
228 Sep. Vitamin A in liver of the Alaska fur-seal.
230 Sep. Vitamin A and D potencies of the liver oil of Pacific cod.

Washington:

- 95 FL. The latent fisheries of Washington and Alaska.
107 FL. Opportunities for small business in the fisheries of the Pacific Northwest and Alaska.

Whales:

- 33 FL. Whalemeat recipes.
248 FL. Japanese whaling in the Bonin Island area.
345 FL. Whale and fish oils (Iceland).

Whitefish:

- 122 FL. Smoking lake herring, whitefish, lake trout, and carp.

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

Washington 25, D. C.

Fishery Leaflet 9
Revised September 1962

AVAILABLE LEAFLETS ON FISHERIES

These fishery leaflets are available without charge from the Fish and Wildlife Service. Requests for large amounts will be carefully reviewed to insure fair distribution. Give title and identification letter and number.

Age

FL 488 Age determination of fishes.

Agar

FL 118 Agar, agaroids, and the American agar industry.

FL 261 Partial bibliography relating to agar.

FL 307 Syneresis of agar gels.

FL 469 Seaweeds and their uses.

Ambergris

FL 517 Ambergris.

Animal feed

FL 405 Salmon cannery waste for mink feed.

FL 501 Fishery resources for animal food.

Aquarium fishes

FL 57 Care of goldfish.

FL 315 Aquarium construction in the home workshop.

FL 323 Snails.

FL 411 Care of tropical aquarium fishes.

FL 443 Construction of a garden fish pool.

FL 473 A simple marine vivarium.

FL 481 Some desirable aquatic plants for use in fish ponds and aquaria.

FL 527 Brine shrimp.

Aquatic biology

FL 162 Publications on aquatic biology.

Baits

FL 23 Earthworms for bait.

FL 28 Fish baits: Their collection, care, preparation and propagation.

FL 191 Dealers in bait fishes.

FL 480 The bait shrimp industry of the Gulf of Mexico.

Bass

FL 451 Striped bass.

Byproducts

FL 370 Utilization of fishery byproducts of Washington and Oregon.

FL 380 Byproducts of the Government-operated Alaska fur-seal industry.

FL 501 Fishery resources for animal food.

Canning

FL 79 Operations involved in commercial canning.

FL 80 Canning salmon (commercial).

FL 81 Commercial canning of sardines.

FL 82 Canning tuna commercially.

FL 83 Commercial canning of mackerel, other fishes and pet foods.

FL 84 Commercial canning of clams, oysters, mussels and squid.

FL 85 Commercial canning of crabs, lobsters and shrimp.

FL 86 Commercial canning of specialty products: fish balls, clam chowder, fish cakes, turtles and terrapins, frog legs and clam bisque.

FL 87 Commercial canning of fish roe and caviar.

FL 88 Canning products hermetically sealed but not processed: anchovies, codfish, herring, oysters, West Coast crabmeat, salmon, shrimp and seafood cocktail.

FL 89 Spoilage in canned fishery products.

FL 90 Nutritive value in canned fishery products.

Canning (cont'd)

- FL 295 Chemical composition of some canned fishery products.
- FL 359R Manufacturers of equipment for fish processing industries.
- FL 374 Freezing and canning king crab.

Cephalopods

- FL 524 Cuttlefish, octopuses, squids.

Clams

- FL 73 Culture of soft clams.

Consumption of fish

- FL 422 Consumer preferences for breaded shrimp and fish sticks.
- FL 424 Household consumer preferences for breaded shrimp and breaded fish sticks.
Part I - National and Regional Summary.
- FL 425 Household consumer preferences for breaded shrimp and breaded fish sticks.
Part II - Summary by Farm and NonFarm, Rural and City-size groups.
- FL 426 Household consumer preferences for breaded shrimp and breaded fish sticks.
Part III - Summary by Income groups, Household size, Homemaker Age groups and Occupation.

Cookery

- FL 30 Preparation of three fishes of the Pacific Coast - shark, shad and lingcod.
- FL 35 Fish cookery in the open.
- FL 53 Sauces for seafood.
- FL 69 Markets and recipes for fresh-water turtles.
- FL 106 Basic recipes for cooking fish.
- FL 404 Tilefish recipes.
- FL 446 Pacific Coast shrimp recipes.

Cooperatives

- FL 277R Organizing and incorporating fishery cooperative marketing associations.

Crabs

- FL 262 Crab pot construction (Chesapeake Bay type).
- FL 276 The "bob" method of picking blue crabs.
- FL 358 The Chesapeake Bay crab industry.
- FL 374 Freezing and canning king crab.
- FL 415 Pasteurization of crabmeat.
- FL 419 Dungeness crab pots.
- FL 439 The dungeness crab industry.
- FL 471 Edible crabs.

Crawfish or crayfish

- FL 401 Crawfish control methods.

Culture

- FL 17 Construction of farm ponds.
- FL 27 Farm fish ponds and their management.
- FL 41R List of state-owned fish hatcheries and rearing stations.
- FL 65 Outlet gate for farm fish ponds.
- FL 73 Culture of soft clams.
- FL 97R Fish culture as a livelihood.
- FL 147R List of Federal fish cultural stations.
- FL 423 Trout feeds and feeding.
- FL 448 Some publications on fish culture and related subjects.
- FL 498 Culture, handling, and processing of Pacific Coast oysters.

Curing

- FL 18 Home preservation of fishery products - salting, smoking and other methods of curing fish at home.
- FL 60 Mild curing, pickling, dry salting and smoking salmon.
- FL 136 Dry salting mullet, red drum (channel bass), and kingfish.
- FL 204 A cardboard smokehouse.
- FL 270 Electrostatic smoking of fish.

Cuttlefish

- FL 524 Cephalopods: cuttlefish, octopuses, squids.

Decomposition

- FL 89 Spoilage in canned fishery products.

Dehydration

- FL 120 Dehydration of fishery products.

Diseases and parasites

- FL 201 Studies of the fecal streptococci.
- FL 453 Infectious pancreatic necrosis of salmonid fishes.
- FL 454 Virus disease of fish.
- FL 455 Blue-sac disease of fish.
- FL 456 White-spot disease of fish eggs and fry.
- FL 457 Soft-egg disease of fish.
- FL 458 Lymphocystis disease of fish.
- FL 459 Fresh water fish diseases caused by bacteria belonging to the genera Aeromonas and Pseudomonas.
- FL 460 Fungus or saprolegnia infestation of incubating fish eggs.
- FL 461 Columnaris disease of fishes.
- FL 462 Fin rot and peduncle disease of salmonid fishes.
- FL 463 Nutritional dietary gill disease.
- FL 464 Bacterial gill disease of fresh-water fishes.
- FL 465 Kidney disease of salmonid fishes.
- FL 466 Ulcer disease in trout.
- FL 467 Fish furunculosis.
- FL 486 Recommended treatment for fish parasite diseases.
- FL 494 Fish mycobacteriosis (tuberculosis).
- FL 497 A virus disease of chinook salmon.
- FL 506 Florida red tide.
- FL 508 Whirling disease (Myxosporidia: Myxosoma) of trout.

Drum

- FL 134 Black drum.

Eels

- FL 479 Eels.

Exploratory fishing

- FL 342 Report of Alaska exploratory fishing expedition, fall of 1948, to the northern Bering Sea.
- FL 385 The exploratory fishing vessel John N. Cobb.
- FL 406 Exploratory shrimp fishing in the Gulf of Mexico, 1950-51.

Farm ponds

- FL 17 Construction of farm ponds.
- FL 27 Farm fish ponds and their management.
- FL 65 Outlet gate for farm fish ponds.
- FL 448 Some publications on fish culture and related subjects.
- FL 481 Some desirable aquatic plants for use in fish ponds and aquaria.

Fisheries

- FL 168 Commercial fishery laws and regulations.

Food value and composition

- FL 36 Food value of fish and shellfish.
- FL 90 Nutritive value of canned fishery products.
- FL 116 Composition of fish.
- FL 295 Chemical composition of some canned fishery products.

Foreign fisheries

Caribbean area:

- FL 259R Fishery resources of the Caribbean area.
- FL 308 Cuban fishing industry.

Egypt:

- FL 363 Egyptian fisheries.

Japan:

- FL 371 Japanese whaling industry prior to 1946.

Liberia:

- FL 440 Marine fishery development in Liberia, 1952-54.

Mediterranean area:

- FL 493 Bluefin tuna trap fishery of the Western Mediterranean Sea.

Micronesia:

- FL 239 Fishery resources of Micronesia.

Foreign fisheries (cont'd)

Philippines:

FL 354 Reef fishing.

Foreign trade

FL 421 U. S. foreign trade in edible fishery products, 1949-53.

FL 507 World production and trade in fish meal and oil.

Frogs

FL 436 Commercial possibilities and limitations in frog raising.

Gear

FL 64 Construction and operation of lobster fishing gear.

FL 125 How to make and mend fish nets.

FL 195R Partial list of manufacturers of fishing gear and accessories.

FL 241 Methods of net mending, New England.

FL 245 Balloon trawl construction, Long Island type.

FL 262 Crab pot construction, Chesapeake Bay type.

FL 354 Reef fishing.

FL 373 Atlantic Coast mackerel purse seine.

FL 379 New England sink gill net.

FL 386 Pacific salmon drift gill netting.

FL 387 Commercial salmon trolling.

FL 394 Gulf of Mexico shrimp trawl designs.

FL 437 Assembly methods for otter trawl nets.

FL 442 Sea scallop boats and gear.

FL 445 Operation of north Atlantic type otter trawl gear.

FL 470 Double-rig shrimp trawling in the Gulf of Mexico.

FL 487 Spiny lobster gear and fishing methods.

FL 510 Great Lakes trawler conversion.

FL 530 Construction of a widmark-flask shaker.

Haddock

FL 489 Haddock.

Insurance

FL 499 Federal fishing vessel mortgage and loan insurance.

Jellyfish

FL 535 Jellyfishes and related animals.

Kosher fishes

FL 531 Food fishes with fins and scales.

Lamprey

FL 491 Sea Lamprey

Laws

FL 108 Commercial fishery laws and regulations.

FL 172 Compliance with Federal Food, Drug, and Cosmetic Act in marketing fishery products.

FL 403R Fishing laws for the District of Columbia.

FL 468 Excise tax exemptions granted to fishermen.

Lists

FL 41R List of State-owned fish hatcheries and rearing stations.

FL 46R Dealers in trout and pondfishes.

FL 147R List of Federal fish cultural stations.

FL 160R Partial list of trade journals and newspapers concerning fishery products.

FL 178R Partial list of fishing boat builders.

FL 191R Dealers in bait fishes.

FL 195R Partial list of manufacturers of fishing gear and accessories.

FL 254R Fishery associations in the U. S.

FL 292R Fishery cooperative associations in the U. S.

FL 293R Fishermen's and fish shoreworker's unions in the U. S., Alaska and Hawaii.

FL 359R Manufacturers of equipment for the fish processing industries.

FL 432R Fishery statistical publications of the Bureau of Commercial Fisheries.

FL 449R Organizations and officials concerned with the commercial fisheries.

FL 452R Fishery motion pictures.

Loans

- FL 477 Fisheries loans for vessels, gear, and research.
- FL 499 Federal fishing vessel mortgage and loan insurance.
- FL 503 Fishing vessel construction differential subsidy.

Lobsters

- FL 64 Construction and operation of lobster fishing gear.
- FL 74R American lobster.
- FL 487 Spiny lobster gear and fishing methods.
- FL 523 Spiny lobsters.

Mackerel

- FL 373 Atlantic Coast mackerel purse seine.

Marking fish

- FL 534 Marking and tagging fish.

Marketing

- FL 172 Compliance with Federal Food, Drug, and Cosmetic Act in the marketing of fishery products.
- FL 277 Organizing and incorporating fishery cooperative marketing associations.
- FL 365 Sales patterns for fresh and frozen fish and shellfish, 1936 to 1946.

Meal

- FL 126 Fish reduction processes.
- FL 359 Manufacturers of equipment for the fish processing industries.
- FL 370 Utilization of fishery byproducts in Washington and Oregon.
- FL 501 Fisheries resources for animal food.
- FL 507 World production and trade in fish meal and oil.

Menhaden

- FL 412 The menhaden industry.
- FL 521 The menhaden fishery of the United States.

Mosquitofish

- FL 525 The mosquitofish, Gambusia affinis

Mussels

- FL 246 Fresh-water mussel shell and button industry.

Oils

- FL 126 Fish reduction processes.
- FL 138 Time and labor saving techniques in vitamin A and oil analysis.
- FL 212 A rapid test for vitamin A stability.
- FL 233 Fish liver oil industry.
- FL 290 Distribution of oil and vitamin A in fish livers.
- FL 359R Manufacturers of equipment for the fish processing industries.
- FL 507 World production and trade in fish meal and oil.
- FL 528 How about the new marine oils?

Octopuses

- FL 524 Cephalopods: cuttlefish, octopuses, squids.

Oysters

- FL 498 Culture, handling, and processing of Pacific Coast oysters.

Pictures, motion

- FL 452R Fishery motion pictures.

Pikes

- FL 496 The true pikes.

Poisoning

- FL 124 Dermatitis in the fish industry.

Pollution and sanitation

- FL 174 Stream pollution hazards of woodpulp mill effluents.
- FL 201 Studies of the fecal streptococci.

Rains of fishes

- FL 513 Rains of fishes.

Red tide

- FL 506 Florida red tide.

Refrigeration

- FL 128 Refrigerated locker storage of fish for home use.
FL 213 Wrapping materials for frozen fish.
FL 265 Bibliography of the preservation of fishery products by freezing.
FL 278 Freezing fish at sea.
FL 321 An improved method of glazing fish for locker storage.
FL 359R Manufacturers of equipment for the fish processing industries.
FL 374 Freezing and canning king crab.
FL 427 Refrigeration of fish. Part I - Cold storage design and refrigeration equipment.
FL 428 Refrigeration of fish. Part II - Handling fresh fish.
FL 429 Refrigeration of fish. Part III - Factors to be considered in the freezing and cold storage of fishery products.
FL 430 Refrigeration of fish. Part IV - Preparation, freezing and cold storage of fish, shellfish and pre-cooked fishery products.
FL 431 Refrigeration of fish. Part V - Distribution and marketing of frozen fishery products.

Research

- FL 447 Planning your research paper.

Salmon

- FL 14 Pacific salmon.
FL 176R Atlantic salmon
FL 386 Pacific salmon drift gill netting.
FL 387 Commercial salmon trolling.
FL 405 Salmon cannery waste for mink feed.

Sardines

- FL 129 The Pacific sardine industry.
FL 270 The electrostatic smoking of sardines.

Scallops

- FL 442 Sea scallops and gear.

Sea horse

- FL 495 Sea horses.

Sea urchin

- FL 511 Sea urchin fishery.

Seals

- FL 516 Fur seal industry of the Pribilof Islands, 1786 - 1960.

Seaweeds

- FL 469 Seaweeds and their uses.

Senses of fish

- FL 132 Structure and senses of fishes.

Shad

- FL 504 American shad.

Shipworms

- FL 505 Shipworms and other marine borers.

Shrimp

- FL 394 Gulf of Mexico shrimp trawl designs.
FL 406 Exploratory shrimp fishing in the Gulf of Mexico.
FL 446 Pacific Coast shrimp recipes.
FL 470 Double-rig shrimp trawling in the Gulf of Mexico.
FL 472 The shrimp and the shrimp industry of the southern U. S.
FL 480 The bait shrimp industry of the Gulf of Mexico.
FL 527 Brine shrimp.
FL 536 Recognizing important shrimps of the South.

Snails

- FL 323 Snails.

Sponges

- FL 490 Sponges.

Sport fishing

- FL 444 Some publications on game-fish and sport fishing.

Squid

FL 524 Cephalopods: cuttlefish, octopuses, squids.

Starfish

FL 169 Controlling the starfish.

FL 391 Technological studies of the starfish.

FL 520 Biology and methods of controlling the starfish, *Asterias forbesi* (Desor).

Statistics

FL 432R Fishery statistical publications of the Bureau of Commercial Fisheries.

Note: Current fishery statistical leaflets; landings at certain ports; cold storage holdings of fishery products; daily, monthly, and annual summaries of fishery products are available upon request.

Sturgeons

FL 526 Sturgeons.

Tagging fish

FL 534 Marking and tagging fish.

Trout

FL 98 Lock leven.

FL 235 Kamloops rainbow trout.

FL 423 Trout feeds and feeding.

FL 441 Lake trout.

Tuna

FL 484 U. S. Tuna fishery, 1911-1958.

FL 493 Bluefin tuna trap fishery of the Western Mediterranean Sea.

Turtles

FL 69 Markets and recipes for fresh-water turtles.

FL 91 Turtles in the home aquarium.

FL 190 Turtle trapping.

FL 492 Sea turtles.

Whales

FL 371 Japanese whaling industry prior to 1946.