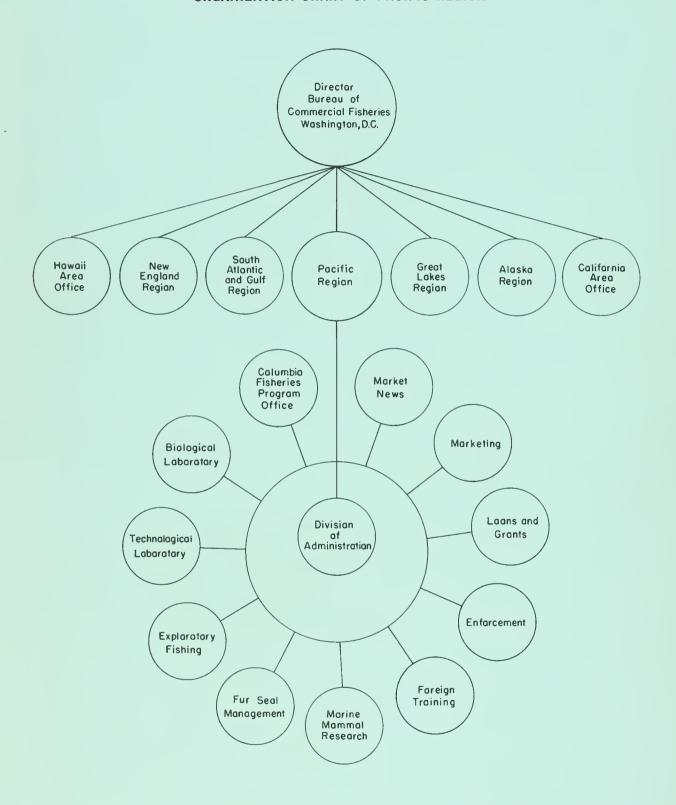
The PACIFIC REGION of the BUREAU OF COMMERCIAL FISHERIES



UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES
WASHINGTON 25, D.C.

ORGANIZATION CHART OF PACIFIC REGION



UNITED STATES DEPARTMENT OF THE INTERIOR, Stewart L. Udall, Secretary FISH AND WILDLIFE SERVICE, Clorence F. Pautzke, Commissioner BUREAU OF COMMERCIAL FISHERIES, Donald L. McKernan, Director

THE PACIFIC REGION OF THE BUREAU OF COMMERCIAL FISHERIES

By

Thomas O. Duncan

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Right. Seattle's metropolitan area fronts on a deep, protected harbor which provides superb anchorage for ships. The bulk of Seattle's fishing industry is located along the waterfront. (Courtesy Seattle Chamber of Commerce.)

The Pacific Region of the Bureau of Commercial Fisheries

By Thomas O. Duncan

Puget Sound was a fishing center in the Pacific Northwest long before white men stepped ashore at Alki Point in West Seattle. Fish were the important food for the Indians living on the shores of this vast natural waterway. As the white settlement grew, fisheries became one of the prosperous industries. The methods of fishing were varied and included a combination of methods adopted from East Coast fishermen and the local Indians. Salting was the principal technique used to preserve the fish for consumer distribution. As time progressed, newer and larger boats with more efficient gear led to a greater harvest from the sea, and the preservation techniques were improved many fold. The fishermen soon learned, however, that fishery stocks were not inexhaustible and felt the need for fishery research.

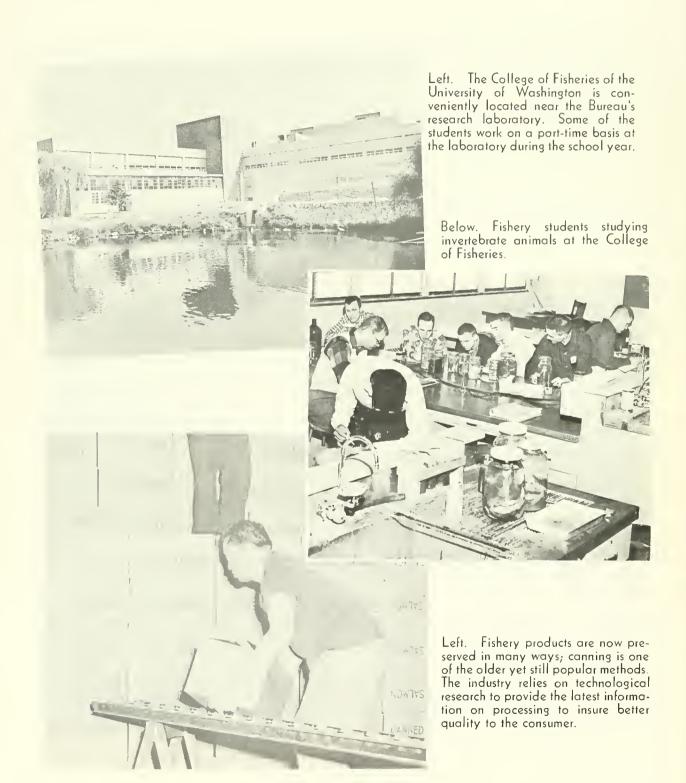
During the late 1920's, many foresighted men visualized the future importance of Seattle as a fishery center. One of these was the U.S. Commissioner of Fisheries Henry O'Malley. He selected Seattle as the site for a Federal fishery research laboratory. Thus, Seattle became a center for fishery research and was the logical site for the office of the Pacific Region when the U.S. Bureau of Commercial Fisheries was

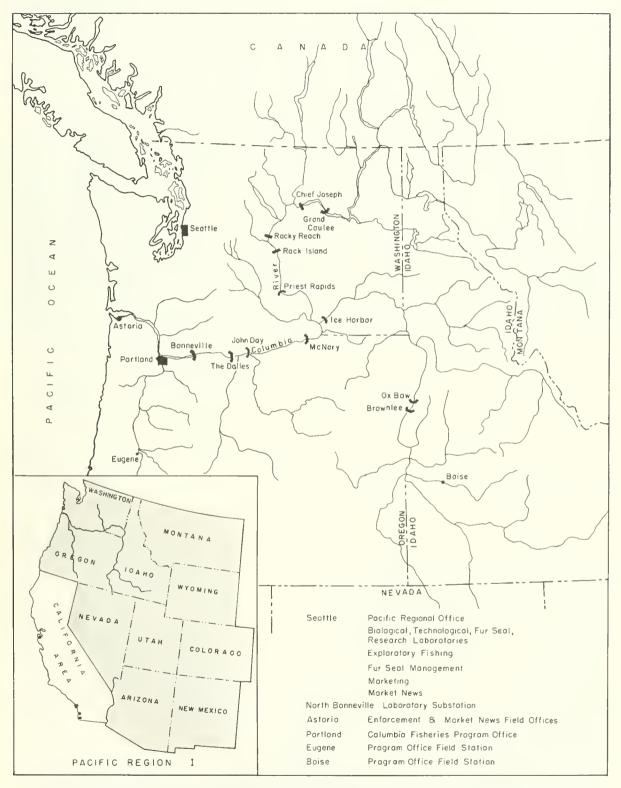
established under the Fish and Wildlife Act of 1956.

The activities of the Bureau range from basic research on the populations of fish and the many factors influencing their abundance, to the product on the consumer's table. Between these extremes, the Bureau's work involves various types of problems in many fields of science and technology. The Bureau's program is financed from two major sources: (1) an annual appropriation by Congress and (2) Saltonstall-Kennedy funds, which represent a percentage of the duties paid on imported fishery products.

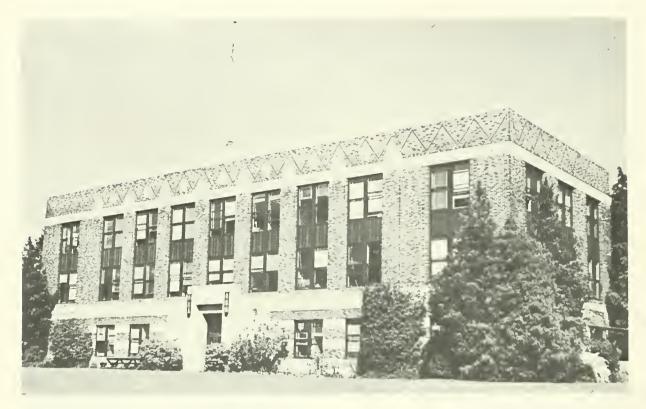


Many pressing fishery problems in the Pacific Northwest are of concern to the Western States. Through persistent research by the fishery agencies of these States and the Bureau of Commercial Fisheries, these problems are being solved. Important to this effort is the supply of fishery scientists, educated in the colleges and universities throughout the United States. With the Federal-State cooperative attitude and with the the dedicated people in the employ of the various agencies, we are confident that these great fishing resources will always be productive and contribute to the economy and well-being of the people.





Area of the Pacific region and principal offices. Dams built or under construction on the Columbia River system are named.



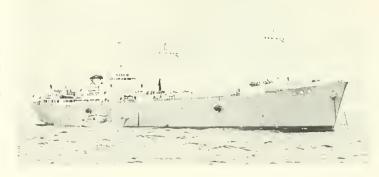
The "Montlake Laboratory" is the home of three activities of the Bureau of Commercial Fisheries: (1) the Biological Laboratory, (2) the Technological Laboratory, and (3) the Exploratory Fishing Base. It is located on Montlake Boulevard in Seattle, south of the Lake Washington Ship Canal and the University of Washington.

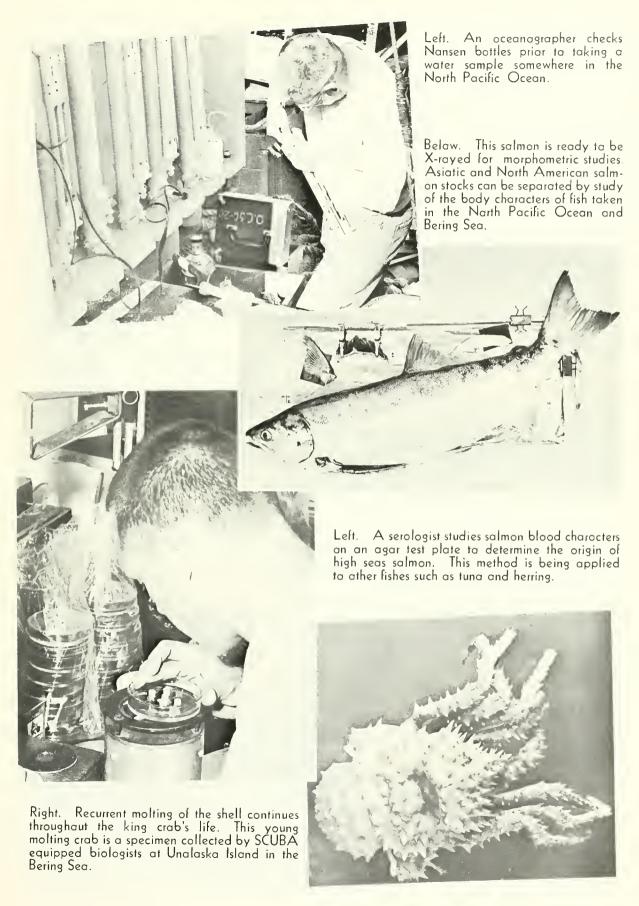
Biological Laboratory

The principal function of the Biological Laboratory, Seattle, Wash., is to conduct research on the coastal and high seas salmon and king crab in the Pacific Region. Research on salmon behavior patterns and survival under the influences of environment is designed to yield an understanding of the fluctuations in abundance of coastal stocks. Considerable amount of research is directed toward means of providing safe passage for anadromous fishes at water-use projects.

In the critical international North Pacific fishery, some unique research tools have been developed to distinguish Asiatic and North American stocks of salmon and determine their distribution. Valuable data have been collected on the life history, distribution, and abundance of king crab in the Bering Sea.

Right. The 13,000-gross-tan Japanese mothership Renshin Maru is similar to some of the salmon motherships operating in the North Pacific Ocean west of longitude 175° W. This ship contains two reduction units and is served by 25 trawlers.



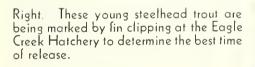


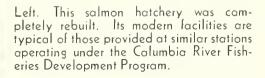


Columbia Fisheries Program Office

In 1949 the Cangress authorized Federal funds to initiate a pragram to rehabilitate the salmon runs in the lower Calumbia River area. The program is based on the recagnized loss of fish and fish habitat at Federal water-use prajects. The objective is the maximum development of the salmon and steelhead runs in the tributaries of the Calumbia River. The Columbia River Fisheries Program Office is ideally lacated in Portland, Oreg., on the Calumbia and Willamette Rivers, to supervise this work.

Left. The Abernathy Creek artificial spawning channel far incubation of salmon eggs under controlled conditions. This is a major restarction project provided under the Program.





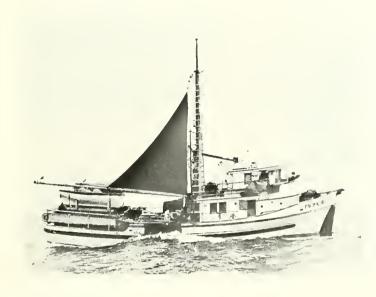


Left. A study of fingerling mortality was made at the Leaburg Powerhouse on the McKenzie River, Oreg., to determine the need for screens in the river system.



Left. Major fishway construction is very important to the rehabilitation of salmon fisheries of the Pacific Northwest. Fishways, which bypass impassable barriers such as falls, open spawning grounds to salmon runs in an effort to improve and restore runs of salmon and steelhead in the Columbia River Basin.

Enforcement

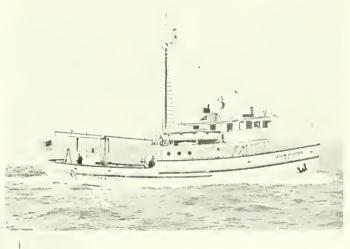


The Commercial Fisheries Enforcement Office in this region is responsible for enforcing the international treaties and regulations for protection of the fishes and marine mammals in our coastal waters. The Office fosters cooperative and coordinated programs with State and other Federal agencies concerned with the enforcement of the international treaties and regulations.

Left. A Canadian vessel fishing for halibut on the high seas. Regulations for this fishery are based on recommendations of the International Pacific Halibut Commission and enforced by the Governments of Canada and the United States.

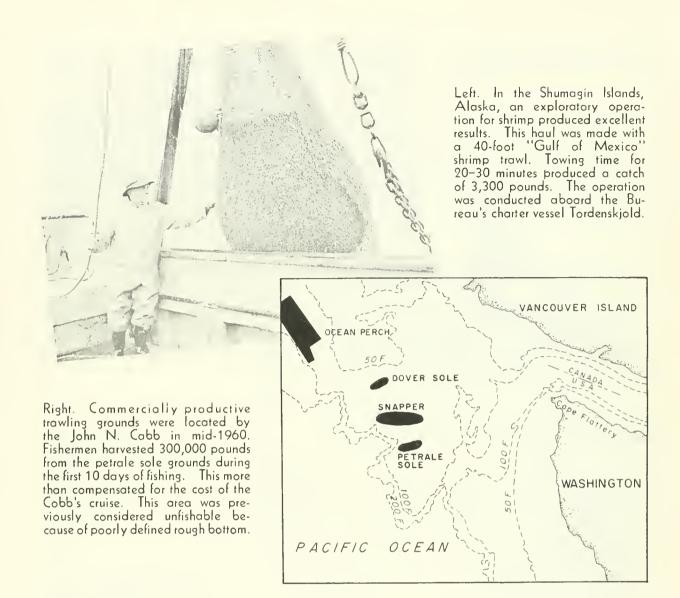
Exploratory Fishing

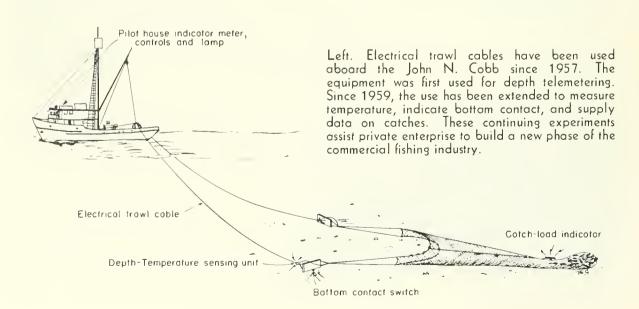
Explaratory fishing aids the growth of our commercial fisheries by expanding present fishing grounds, diversifying effort on present grounds, and discovering new fisheries. By developing better gear and improving fishing methods, increased research can help the domestic industry compete with foreign imports.



Abave. The John N. Cobb was commissioned at Seattle, February 18, 1950, for exploratory fishing and gear research in the Pacific Northwest. The Cobb is 93 feet lang, with a speed of 10 knats.

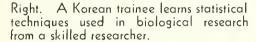
Left. SCUBA divers prepare to board a maneuverable sea sled to observe a battam trawl in action. These abservations pravide a better understanding of gear aperation and design.





Foreign Training

The establishment of a Foreign Training Office in Seattle in 1959 made the Pacific Northwest a worldwide center for training fishery people. The ever-increasing number of foreign visitors is aiding Bureau personnel to make valuable contacts for the exchange of scientific fishery information with many foreign nations.





Fur Seal Management & Research

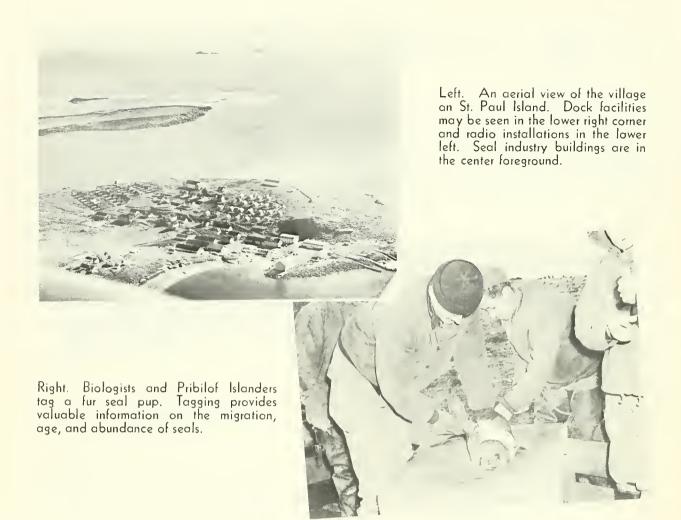
Once nearly exterminated by fur hunters, the fur seal herds of the Pribilof Islands are now approaching their peak abundance under the research and management of the Bureau of Commercial Fisheries, whose

success with the seals is an outstanding example of conservation in action.

The United States netted about \$1,500,000 annually from its share of the seal pelts during the last 15 years. Japan and Canada receive shares of the seal pelts taken by the United States under the provisions of the Interim Convention on Conservation of North Pacific Fur Seals. The Soviet Union is also a participating nation under this Convention. The island byproducts plant has a seasonal output of about 350 tons of seal meal and 50,000 gallons of seal oil. The Bureau, in its Pribilof Islands Program, provides for the health, education, and welfare of about 600 Aleut resident natives.



Left. At Polovina Rookery on St. Paul Island, Alaska, well-defined für seal harem—a bull, cows, and pups—may be seen in the foreground. On the skyline is a runway and tripod, used when taking a census of the harem bulls and for general observation of seal life.



Loans & Grants



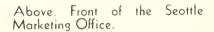
The Branch of Loans and Grants administers a fisheries laan program in the States of Washington and Oregon for financing and refinancing operations, maintenance, replacement, and repair of commercial fishing vessels and equipment. Loans valued at \$1,255,000 have been awarded to vessel owners in this region. The Branch also conducts a mortgage and loan insurance program and a differential subsidy pragram for the construction of fishing vessels.

Left. Workmen prepare to remove debris from a steel trawl-seine vessel, following an explasion and fire while at sea. A loan was awarded for complete rebuilding of the vessel.

Marketing

The basic objectives of the Branch of Marketing are—(1) to promote the free flow of damestically produced fishery products, (2) to develop and otherwise facilitate increased markets for fishery products of damestic origin, and (3) to promote the improvement of marketing practices. To industry people, including fishermen, buyers, whalesalers, jobbers, brokers, and retailers, the Branch provides consulting services on market trends, consumer preferences, quality controls, packaging, selling, transportation, and market promotion.

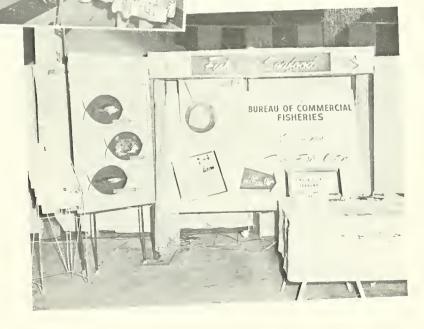


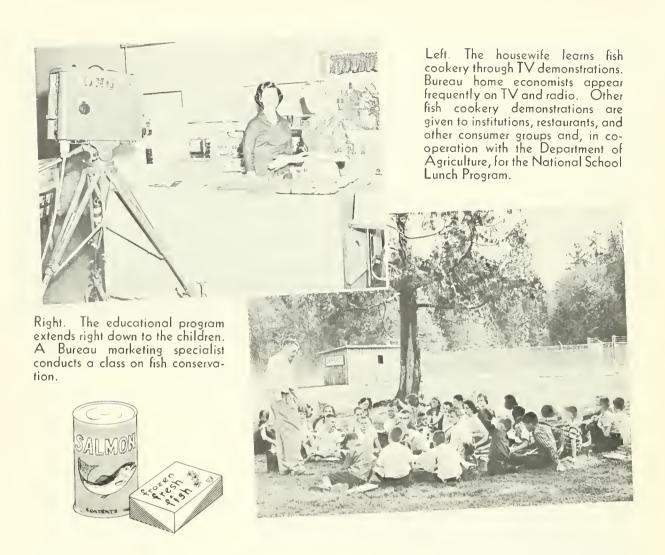


Left. A home economist explains the elements of toste testing an experimental recipe to a panel of testers. "Palatability tests" provide information for bettering recipes. Before being published, new recipes on all fishery products must pass several rigid tests.

Right. Educational exhibits are provided by the Bureau to promote the use of fishery products. This exhibit appeared at the Astoria Fish Festival in August 1959.







Market News



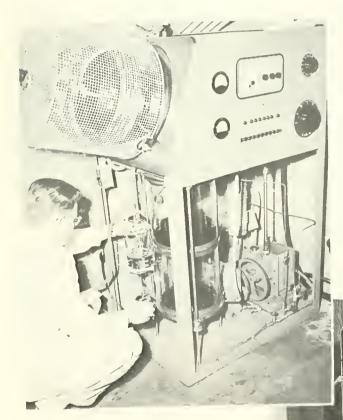
The Seattle Morket News Service Office is one of eight such offices strategically located throughout the United States. Through the daily publication of the landings, receipts, stocks, prices, market conditions, this Service encourages the orderly marketing of fishery products and byproducts. In addition to the daily "Fishery Products Reports," many other types of reports of importance to the fishing industry are issued, including monthly and annual summaries. The Seattle office reports are mailed to nearly every State, Canada, Mexico, and many foreign countries.

Left. Market News reporter talks daily with industry personnel to obtain information for reports.

Technological Laboratory

The Technological Laboratory conducts research that is designed to improve and develop methods of handling, processing, preserving, and distributing fish and shellfish, and to increase utilization of byproducts.

Principles of chemistry, bacteriology, engineering, and nutrition are used to accomplish these objectives. Programs at the laboratory include: (1) Research on marine oils, such as chemical reactions and properties of oils, their fatty acids, and related products; synthesis of new compounds; oxidation and its prevention in fish oils and fish flesh; causes and prevention of odors; ond nutritional effects of fish oils; (2) development of voluntary standards for grades of fish and shellfish; (3) inspection and certification of fishery products; (4) investigation of biochemical changes during spoilage of fish; (5) preservation and processing of fish and shellfish; (6) analysis of fishery products for components such as amino acids, vitamins, minerals, proteins, and oils.



Left. The centrifugal molecular still is used to prepare large quantities of fractions of fish oils and their triglycerides and fatty acids. This method retains the unique characteristics of fish oils, which are the best natural source of highly unsaturated compounds. These are nearly tasteless, odorless preparations that are used to make new products and to study nutritional values of fish oils.

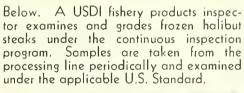
Right. Gas-liquid chromatography is used to study compounds formed during spoilage of fish. This technique is also used for both qualitative and quantitative analysis of fatty acids in fish oils.



Left. Fishery products in mylar-polyethylene bags are placed into No. 2 cans for irradiation by the Materials Testing Reactor, Gamma Facilities, at Idaho Falls, Idaho. The fish are given pasteurization doses and tested for the effects on flavor and on storage life.

Below. This laboratory refrigeration unit is used to cool a salt-glucose solution for immersion freezing of fish and shellfish.





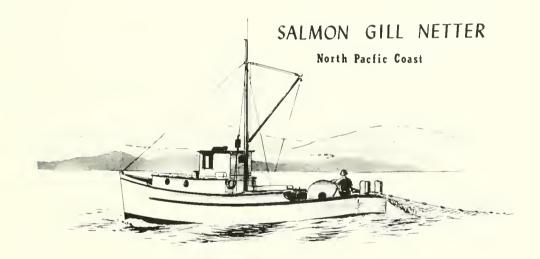


Right. A technological researcher determines the net weight of a halibut steak before examining its quality under the valuntary standard.



Statistics

Two of the 36 field offices of the Branch of Statistics are in Region 1, at Seattle, Wash., and Astoria, Oreg. They are responsible for assembling data for Washington and Oregon on the number of fishermen, fishing craft, and quantity of gear engaged in taking fish and shellfish in these States; the volume and value of the catch; the production of manufactured fishery commodities; and related information. The data are compiled from the records of the State fishery departments or by surveys of fishermen, fishery wholesale dealers, and manufacturers. Statistical information on the fisheries is released in monthly and annual bulletins in the Current Fishery Statistics series and in the Bureau's annual Digest, "Fishery Statistics of the United States."







ADDRESSES OF OFFICES IN PACIFIC REGION

Regional Director, Pacific Region
Division of Administration, Pacific Region
Office of International Relations (Foreign Training)
Branch of Loans and Grants
Commercial Fisheries Enforcement

The above offices are located at the following address:

Bureau of Commercial Fisheries 6116 Arcade Building 1319 Second Avenue Seattle 1, Wash.

Biological Laboratory 2725 Montlake Boulevard Seattle 2, Wash.

Exploratory Fishing 2725 Montlake Boulevard Seattle 2, Wash.

Market News Service and Statistics Office Pier 42 South Seattle 4, Wash.

Fur Seal Management 706 Federal Building Seattle 4, Wash.

Technological Laboratory 2725 Montlake Baulevard Seattle 2, Wash.

Market Development Office 2601 Market Street Seattle 7, Wash.

Astoria Statistics and Market News Office 342 11th Street Astoria, Oreg.

Columbia Fisheries Program Office 827 N.E. Oregon Street P.O. Box 4332 Portland 8, Oreg.

Marine Mammal Research Sand Point Naval Air Station Building 192 Seattle 15, Wash.

