U. S. DEPARTMENT OF COMMERCE

R. P. LAMONT, Secretary

BUREAU OF FISHERIES

HENRY O'MALLEY, Commissioner

FISHERY INDUSTRIES OF THE UNITED STATES 1931

By R. H. FIEDLER

APPENDIX II TO REPORT OF COMMISSIONER OF FISHERIES FOR THE FISCAL YEAR 1932



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1932

FISHERY INDUSTRIES OF THE UNITED STATES, 1931 1

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¹ Appendix II to the Report of the U. S. Commissioner of Fisheries, 1932. Approved for publication May 19, 1932.

FOREWORD

This report constitutes a summary of the activities of the division of fishery industries as well as an annual review on fishery statistics of the United States. As its name indicates, this division of the bureau is concerned with the activities and welfare of the fishery industries, including the commercial fisheries, the trade in fishery products, and the fish canning and preserving industries. Its functions include the collection and publication of fishery statistics, the conducting of market surveys, the prosecution of research designed to solve the technical problems of the industry, and the dissemination of authoritative and practical information to the fishery industries and the public. Results of technological investigations and marketing studies are published in separate documents as each project is completed. information obtained from statistical surveys is published in part 2 of this report, which includes all the detailed statistical information that has become available since the issuance of the previous report,2 together with such summarized statements and interpretations of the statistics as are deemed significant and useful. In the preparation of this report, members of the division's staff have taken part and their assistance is appreciatively acknowledged.

Part 1. OPERATIONS OF THE DIVISION COLLECTION OF STATISTICS

The statistical work of the division in 1931, as in former years, included the collection and dissemination of statistics on the catch of fishery products and the gear employed in making the catch, and statistics of related fishery industries. In the former group are statistics that are intended for the use of the fishery biologist, upon which to base conservation measures. They are also valuable for economic purposes. This is especially true of statistics of the landings of fish at principal fishing ports, which are published monthly. In the second group are statistics that are of use mainly for economic or trade purposes. These include statistics of the manufactured fishery products and by-products of the United States, cold-storage holdings of fish and amounts of fish frozen in the United States, marine-animal oil production, and similar statistics.

Continuing with the plan of making annual general statistical surveys of the fisheries of various geographical sections, the division in 1931 under the direction of F. F. Johnson canvassed the fisheries prosecuted in our entire coastal and lake sections, obtaining catch figures for 1930. The fisheries of the Mississippi River and its tributaries were not canvassed for 1930, but a survey is now in progress in which figures for 1931 are being obtained. Continuous annual catch figures are now available for the Great Lakes from 1913, Pacific Coast States from 1922, South Atlantic and Gulf States from 1927, New England States from 1928, and the Middle Atlantic and Chesapeake Bay States from 1929. While a complete canvass has not been made for the fisheries of the Mississippi River and tributaries since 1922, annual figures have been obtained on the catch of fresh-water mussels

² Fishery Industries of the United States, 1930. By R. H. Fiedler, Appendix II to the Report of the U. S. Commissioner of Fisheries for 1931, pp. 109-552.

in this area since 1929 (about 50 per cent of the total yield of fishery products in the Mississippi Valley consists of mussel shells) and for

Lakes Pepin and Keokuk since 1927.

In addition to the general catch statistics, the collection and (or) publication of statistics on special subjects was continued during 1931, as follows: The landings of fish by American fishing vessels at the ports of Boston and Gloucester, Mass., Portland, Me., and Seattle, Wash.; landings of halibut at North Pacific coast ports (published monthly, and annual bulletins summarizing these landings for the year); catch of mackerel in the North Atlantic fishery; cold-storage holdings of frozen and cured fish and amount of fish frozen, which are furnished by the Bureau of Agricultural Economics (published monthly); production, consumption, and holdings of marine-animal oils of the United States and Alaska (published quarterly by the Bureau of the Census); production of manufactured fishery products and byproducts of the United States and Alaska during 1931; the catch of shad in the Potomac and Hudson Rivers, and the catch of alewives in in the Potomac River during 1931; transactions on the sponge exchange at Tarpon Springs, Fla., during 1931; volume of fishery products handled at the municipal fish wharf and market, Washington, D. C., during 1931; and the volume of United States imports and exports of fishery products during 1931, furnished by the Bureau of Foreign and Domestic Commerce.

In the above surveys the division continued to receive cooperation from many of the State fishery agencies, which aided materially in the work. This, together with the use of automobiles by the agents for travel, has enabled the bureau to canvass the territory more

expeditiously, efficiently, and economically.

STATISTICAL CONFERENCE

On February 19, 20, and 21, 1931, the division held its second conference with its statistical agents from all sections of the country at the headquarters of the bureau in Washington, D. C. This was for the purpose of acquainting the agents with new methods for collecting fishery statistics which are intended to show the scope of the diversified interests in the industry, and also to give the agents an opportunity to discuss and solve various perplexing problems relating to the work.

The morning session of the first day Commissioner O'Malley delivered an address of welcome, which was followed by an address on statistical research in the fisheries by the writer. The program for the remainder of that day and the next two days was devoted to general discussion of the work with Fred F. Johnson as chairman.

CATCH ANALYSIS, COLUMBIA RIVER CHINOOK-SALMON FISHERY

The statistical analysis of the records of daily catches of chinook salmon made by individual fishermen on the Columbia River was continued during 1931 by Joe A. Craig, director of the Seattle (Wash.) Laboratory. The data were treated statistically in order to determine the average catch per constant unit of effort and gear of chinook salmon on the Columbia River during the period from 1905 to 1930, inclusive.

From these data indices of abundance have been made, which indicates the relative abundance of chinook salmon in this river system from year to year and during short periods of time for each individual year. In this way not only the fluctuations in abundance of the entire population of chinook of the Columbia River have been followed from one year to the next, but also indices of abundance for portions of the migrating salmon population called "runs," which are probably biologically distinct and self-maintaining, have been computed.

The investigations of 1931 consisted of a detailed consideration of the data available, and show that from 1909 to 1925, inclusive, the chinook salmon of the Columbia River appeared to withstand the strain of fishing to which they were subjected without any noticeable decline in total numbers. However, from 1926 to 1930, the catch per unit of effort and gear, which is a measure of abundance, has declined noticeably. Also, it appears that certain of the "runs" or races are

suffering a more pronounced decline in numbers than others.

TECHNOLOGICAL INVESTIGATIONS

It has been said that the application of science is useful to industry during booms, is indispensable when times are normal, and vital when they become hard. Possibly this applies to the fishing industry with greater force than to any other of our basic food industries. During the past year the fisheries have passed through a most trying period. Producers and wholesalers experienced difficulty in marketing fresh and canned fishery products. The market for fish meals and oils was depressed. Some of the important fisheries have shown signs of depletion, and competition with other food products has become keener. At times like these, in order to operate successfully, it is important that losses be minimized, and that the products available be utilized to the fullest extent. The technological research of the bureau has been aimed toward this end, and where the industry has applied the results of this research to its commercial procedure it has been benefited according to the effort expended. As a result, research by the bureau has shown ways for lengthening the life of certain types of textile fishing gear; various types of fishing gear have been developed which have a greater selectivity, thereby allowing small and immature fish to escape; methods have been developed for preventing rusting and shrinkage of frozen fish in cold storage, and undue losses and food value of fresh fish shipped with ice as a refrigerant; methods also have been developed for manufacturing fish meals and oils of higher nutritional value, and chemical and biochemical studies have demonstrated the richness of some fish, shellfish, and their products in protein, minerals, and vitamins. This work has had a stabilizing influence on the fisheries, and has enabled them to carry on in a more efficient and successful manner than would otherwise have been possible.

RESEARCH ASSOCIATE

In the above lines of technological research the bureau has attacked those fundamental problems which promise to be of greatest value to the largest number and which are possible with the funds and personnel available for the purpose. For this reason, the division has not been able to study special problems affecting certain products, processes, or methods. In order to serve the industry in this connection, the bureau by congressional authorization has provided research associate facilities whereby firms or groups having special technological problems to solve will furnish the investigator and pay his salary and expenses. The investigation is carried out in cooperation with the bureau's staff in its laboratories and under its control. This makes available to the industry laboratory, consultation, and library facilities which they are unable to obtain elsewhere.

During the past year, a manufacturer of marine products took advantage of these facilities and placed a chemist in the division's laboratory to make a study of the nutritive value of kelp meal.

LABORATORIES

During the past year the division carried on its technological research work under the direction of John Ruel Manning at laboratories in Washington, D. C., and Gloucester, Mass., and has provided equipment for a laboratory in the bureau's new building in Seattle, Wash. In addition, work was conducted in other laboratories as conditions warranted. For instance, certain cooperative biochemical studies were conducted at the laboratories of the South Carolina Food Research Commission, Charleston, S. C.; at the laboratory of the Bureau of Chemistry and Soils, United States Department of Agriculture, Washington, D. C.; and at experimental farms of the Department of Agriculture and the Ohio Agricultural Experiment Station. Research on the refrigerating, salting, and smoking of fish was conducted in the Virgin Islands and in Puerto Rico, and other investigations were conducted in the field where optimum working conditions obtained.

WASHINGTON, D. C.

With the transfer of the bureau's headquarters from Sixth and B Streets SW., to the new Department of Commerce Building, Washington, D. C., the division's technological laboratories in the old quarters were dismantled and moved to the new building. Chemical, nutritional, and mechanical investigations relative to fishery products are now being carried on in these laboratories.

GLOUCESTER, MASS.

During the year, the division completed the establishment of its technological research laboratory at Fort Square, Gloucester, Mass. This has been equipped to conduct various phases of fishery technological research, including refrigeration, smoking, bacteriology,

by-products, and production methods.

The laboratory is located on the second floor of a building, along the water front facing Gloucester Harbor, and has wharf facilities on two sides. This is convenient as it enables the technologists to come into close contact with the fishing fleet operating out of this port. It also enables them to obtain laboratory samples, with which to experiment, directly from vessels as a large number of them land their fares at this wharf.

The laboratory was designed and equipped by the bureau's technologists and is particularly well adapted for fishery research. Practically all of the equipment was designed for specific purposes and is particularly adapted for the study of the problems for which it is intended.

In June of 1931, two of the technologists, from the Washington staff, were transferred to Gloucester to continue their activities in this laboratory. In addition to these, and the one previously assigned there, three new technologists were appointed, for assignment to this laboratory, to assist in the studies being conducted there. The staff of this laboratory also includes a clerk and an expert mechanic.

During this transfer of activities, from Washington to Gloucester, it was necessary for the study of some of the problems to be suspended for a period. These were resumed the latter part of the year, when the laboratory had been completely equipped with the necessary apparatus.

SEATTLE, WASH.

During 1931 the division provided equipment for a technological laboratory on the second floor of the bureau's new fisheries station on Lake Union in Seattle, Wash. It is planned to begin technological investigations there in 1932, when studies will be made on the manufacture of salmon body and liver oils.

NUTRITIVE VALUE OF MARINE PRODUCTS

NUTRITION LABORATORY

In the course of the bureau's investigative work it is necessary to determine the comparative food values of various fishery products, the relative efficiency of different processes of manufacture, methods for evaluating and comparing the products experimented with by its technologists, and the effects or changes on food values resulting from manufacturing by canning, curing, smoking, and freezing. Without means for accomplishing these things there would be no standard of comparison of results or means for evaluating products produced in different ways. Thus it became essential for the proper conduct of its work to make provisions for nutrition work. Cooperative arrangements with other agencies temporarily enabled the bureau to care for some of the more pressing problems having to do with commercial products. To promote the efficiency of the program of research of its own technologists and to standardize the products of industry the bureau has provided nutrition laboratory facilities and began experimental work in its own laboratory in Washington, D. C., in July, 1931. This has been one of the most important contributions made in recent years to the effectiveness of its own work and productive of beneficial results to industry.

BURBOT-LIVER OIL

Under a working arrangement with the Bureau of Chemistry and Soils, United States Department of Agriculture, as described in the 1929 and 1930 reports of this division, Dr. Chester D. Tolle, of the bureau, and Dr. E. M. Nelson and Dr. G. S. Jamieson, of the Bureau

of Chemistry and Soils, completed an investigation concerning the chemical and physical properties and vitamin content of burbotliver oil, in which it was shown that commercially produced burbotliver oils were from four to ten times as potent in vitamin A and from three to four times as potent in vitamin D as medicinal codliver oil. It was also shown that these oils meet the United States Pharmacopæia X requirements for cod-liver oil with respect to specific gravity, iodine number, acid value, and unsaponifiable matter. The saponification values were approximately equal to the maximum permitted for cod-liver oil.

ANTIANEMIC PROPERTIES OF OYSTERS

Through a cooperative arrangement with the South Carolina Food Research Commission, Charleston, S. C., E. Jack Coulson, of the bureau has made a study in the laboratories of this commission of the antianemic properties of oysters. Samples of oysters were gathered from the most important oyster beds of the Atlantic and Gulf waters

and analyzed for iron, copper, and manganese.

From this study it is possible to group the samples into three distinct groups: (1) North Atlantic, with high copper, low iron, and low manganese, (2) South Atlantic, with high iron, low copper, and low manganese, and (3) Gulf, with high iron, low copper, and high manganese. When the oysters from different localities were fed to anemic animals they all induced regeneration of hemoglobin. response of hemoglobin regeneration was directly proportional to the amount of iron present, thus indicating that copper was not the This investigation demonstrates the importance controlling factor. of oysters as a source of iron in addition to their other food factors. It also was demonstrated that the ether-soluble material in oysters saponified with alcoholic potash carries appreciable quantities of vitamin D.

A great deal of interest has been shown in fish flour as a result of cooperative investigations in which this product forms a part of the diet for children. These investigations which started about May, 1931, are still in progress and, therefore, no definite report can be

made at this time.

To correlate its laboratory studies on the nutritive value of fishery products with the actual feeding of these products to farm animals, the bureau is cooperating with the United States Department of Agriculture, Bureau of Animal Industry, Experimental Farm, Beltsville, Md., and the Ohio Agricultural Experiment Station, Wooster, Ohio, in extending its nutrition studies to farm animals, such as poultry, sheep, swine, cattle, etc.

KELP-MEAL EXPERIMENTS

A series of cooperative experiments with a producer of kelp meal have been conducted by Dr. H. P. Morris, a research associate, in the Washington laboratory to determine the nutritive value of kelp meal. One experiment of this series was conducted to learn the optimum level at which kelp meal can be fed as an addition to an otherwise complete diet composed of natural foodstuffs.

The additions of kelp meal were made to the diets of albino rats at levels of 3, 6, and 10 per cent. As a result it was found that no essential difference in response was observed for the rats at any of the levels studied. The amount of kelp meal included in the ration, therefore, is dependent upon the cost of this product. Another group of animals was fed kelp meal at levels of 15, 22%, and 30 per cent. These animals showed no ill effects from the injection of diets containing these levels of kelp meal, and the rats were not affected by the large quantities of salt that would be contained in these amounts of kelp meal.

Another experiment was conducted to determine the ability of kelp meal to stimulate appetite. According to results obtained it appears that kelp meal has a beneficial effect in increasing both growth and food consumption. If it can be shown that kelp meal will be an aid to production of animals for early market maturity it will make this product of considerable value in the field of animal industry especially in the production of such products as hothouse

lambs, broilers, etc.

Another experiment was conducted to determine the vitamin A content of kelp meal. It was shown that this product contains about one-fourth as much of vitamin A as alfalfa hay, approximately the same amount of vitamin A as fresh eggs, and one and one-half times as much of this vitamin as yellow corn. It is thus seen that kelp meal is a fairly good vegetable source of vitamin A, but could not compete with cod-liver oil and other fish oils as a source of vitamin A

for animal feeding.

Further experiments were designed to test the supplementary value of kelp meal when added to rations containing various protein supplements. The results obtained showed that kelp meal has a very favorable effect on growth when fed in diets composed principally of ground yellow corn and cottonseed meal. The extra growth resulting from the addition of kelp meal was not due to the sodium and potassium salts contained in the kelp since quantities of these salts similar to the amounts contained in kelp meal were added to the control diet. These experiments indicate that kelp meal has a very definite supplementing effect on diets composed of corn and cotton-seed meal thereby increasing the rate of growth with less food consumption per unit gain in weight.

PRESERVATION OF FISHERY PRODUCTS FOR FOOD

IMPROVED METHODS FOR HANDLING OF FRESH AND FROZEN FISH

It is known that fish begins to deteriorate immediately following death and that certain definite chemical changes occur during this decomposition. These chemical changes are the same whether the fish is preserved by ice, in a frozen state, or without preservation. Studies of these chemical changes by James M. Lemon show that the rate of decomposition is determined by the degree of preservation, this being retarded by icing or freezing. With this in mind research was directed toward developing a chemical means for determining the condition of the flesh as to freshness, age, or stage of decomposition. The method developed proved successful in the laboratory but is quite complicated and requires technical skill for operation. However, this method is being simplified so that it may have commercial application.

IMPROVED METHODS FOR SMOKING FISH

In general commercial procedure it has been difficult to produce a uniform smoked fish product for the reason that no standards have been established for the methods involved or for the finished product.

In order to assist the industry in this respect the division is conduct-

ing a study of the smoking of fish.

During the past year James M. Lemon designed and had constructed at the Gloucester Laboratory an experimental smokehouse and with the assistance of Maurice E. Stansby, conducted studies on the smoking of fish. The smokehouse is portable and is constructed to reduce the fire hazard to a minimum. The smoke is produced in the lower section by feeding sawdust onto an electric hot plate. This sawdust is fed automatically from a hopper onto the electric burner, where it is mechanically distributed over the surface to produce an even smoke. The volume of smoke can be controlled by adjusting the speed with which the sawdust is fed into the burner. A blower forces the smoke from the burner, through the upper section or smoking compartment, thence to an exhaust to the air outside. A draught regulator is attached to this system which makes it possible to produce as rapid circulation as may be desired.

The smoking compartment in which the fish are hung is heated by an electric heater, the temperature of which can be accurately controlled. This makes it possible to study the effect of different tem-

peratures on the fish.

The humidity in the smoking compartment is controlled by means of a water spray. This may be employed to increase the amount of moisture present in the smoke. Circulation of the smoke in this compartment is accomplished by an agitator. A continuous record of the temperature and humidity of the smoking compartment can be kept by means of recording instruments.

It is possible to duplicate previous results by manipulating the controls regulating the volume of the smoke, temperature, and humidity. Application of this method to commercial procedure should remove much of the guesswork from the art of smoking and enable

producers to manufacture a uniform product.

BACTERIOLOGICAL STUDIES

In the marketing of fresh fishery products and in their preservation by freezing, drying, salting, smoking, or canning various bacteriological changes take place which may hasten decomposition, contribute to preservation, or otherwise influence the manufacture of the finished product. These changes have received little attention by research workers with the result that losses in the fisheries, due to lack of knowledge of bacterial action, are enormous. In an effort to improve those processes or methods affected by bacteria the division established a bacteriological laboratory at its technological station in Gloucester, Mass. This research work during the past year was conducted by Francis P. Griffiths and has been concentrated upon determining the germicidal effect of smoke on fish and the nature of molds on smoked fish and their prevention. The bacteriology of fresh and frozen fish also has received attention. In this connection, it has been definitely shown that wounds produced in forking fish are fertile breeding grounds for bacteria.

PRESERVATION OF FISHERY PRODUCTS IN THE VIRGIN ISLANDS AND PUERTO RICO

The fisheries of the Virgin Islands and Puerto Rico are only slightly developed, and the inhabitants import considerable quantities of cured fishery products. After comprehensive economic surveys of these islands by Norman D. Jarvis and the writer it was determined that the quantity of fish caught locally could be increased, and that the market could be expanded (1) by building up the market for fresh fish through the introduction of improved methods of handling and the use of ice; (2) by the establishment of a local fish-curing industry to provide a home product to replace imported cured fish.

It was found that methods of handling were primitive and unsanitary and that the use of ice was almost unknown. For these reasons fish less than a day old are believed to have caused food poisoning and considerable quantities of fish have had to be thrown away through spoilage. Experimental studies by N. D. Jarvis on icing and handling fish indicated that fresh fish products superior to any then marketed could be prepared, with a greatly extended period of preser-

vation, and that local fish could be cured successfully.

Series of experimental packs of dry-salt fish were prepared in both St. Thomas and Puerto Rico. A method was developed, based on previous studies by the bureau on the salting of fish, by which a product equal to any imported dry-salt fish can be prepared from fish caught locally around these islands. Data obtained indicate that this fish will not spoil readily. It was found possible to utilize almost all of the larger food fish in the preparation of dry-salt fish, but dry-salt barracuda was found to be the best all-around product.

The disposal of smaller food fish is a problem to the local fishermen and dealers. The study indicated that smoking might be utilized for the curing of these smaller fish, and a product prepared for which there would be more demand. Several lots of fish were smoked by a

method suited to local conditions.

Instruction was given to fishermen and others in the islands for the proper handling and icing of fresh fish, the preparation of dry-salt fish, the construction of a smokehouse and the preparation of smoked fish, all of which should lead to placing the fishing industry on a sounder basis.

PRESERVATION OF FISHERY BY-PRODUCTS

In the fall of 1930, the bureau discontinued operation of its by-products laboratory at Reedville, Va., and installed larger and more complete equipment for by-products' studies as a part of the technological laboratory established at Gloucester, Mass. This move entailed the shipping of all equipment to Gloucester, the renovation of the new quarters, and the assembly and installation of the equipment shipped from Reedville as well as the assembly and installation of additional equipment for use in the new laboratory.

With the installation of the equipment in the Gloucester Laboratory, Roger W. Harrison assisted by Andrew W. Anderson and Samuel R. Pottinger initiated four major by-products investigations. These were: (1) A study of improved methods of manufacturing fish meal from nonoily fish waste, (2) a study designed to develop, from fillet waste, a fish flour which would be suitable for human consumption,

(3) a study of the chemical, physical, and biological constants of haddock-liver oil and, (4) a study designed to improve the technical usefulness of fish oils. Inasmuch as these investigations are studies of major importance and entail a great amount of experimental work over an extended period of time, it was not possible to bring any of them to completion during the few remaining months of the past year. Accordingly, the following may be considered only as a progress report of the work accomplished at the time of this writing.

IMPROVED METHODS FOR MANUFACTURING FISH MEAL FROM NONOILY FISH WASTE

The increasing interest in the use of fish meal as an animal feedstuff makes it highly desirable for the industry to manufacture fish meal of high quality. Fish offal or waste is a perishable material composed of complex inorganic and organic compounds. These latter materials are subject to change during the process of manufacture, and it is, therefore, essential to understand such changes so that those which tend to lower the quality of the products as an animal feed can be eliminated. For this reason, the scope of the investigations on methods of manufacturing fish meal includes studies to determine effect of: (1) Temperature, (2) length of drying time, (3) type of heating medium, and (4) method of applying heat on, (a) the nutritive value, (b) the chemical composition, and (c) the appearance of the product.

In order to carry on the work it has been necessary to: (1) Develop experimental apparatus, (2) conduct tests on such apparatus, (3) test samples for biological value, and (4) make chemical analysis of

the finished products.

The preliminary results obtained to date, while not sufficient to warrant conclusions, indicate that both temperature and length of drying time have a noticeable effect upon the quality of the product. That is, high drying temperatures and long drying periods, within certain limits, detract from the nutritional value of the meal. Inasmuch as the elimination of one ordinarily results in the magnification of the other much remains to be done in determining optimum operating conditions. The study of type of heating mediums and methods of applying heat may be expected to aid in the solution of this problem. The biological tests are being carried on in cooperation with the Ohio Agricultural Experiment Station at Wooster, Ohio.

DEVELOPMENT OF FISH FLOUR SUITABLE FOR HUMAN CONSUMPTION

In the preparation of certain fish for market, as packaged products, a considerable quantity of material is accumulated which is suitable for human consumption. This material consists essentially of the backbones and the flesh adhering to them.

In view of recent studies in nutrition, this material constitutes an extremely valuable supplement to the human diet. Nutrition experts are showing the importance of certain mineral elements in the diet; and analysis of fish waste shows that these elements are found in relatively abundant proportion in this material ranging from 6 to 28 per cent of minerals. A flour prepared from the edible portion of fish

trimmings, therefore, should prove a valuable food product.

The scope of the studies being made on the manufacture of this product include the development of a method of manufacture whereby: (1) The original nutritional value will be altered as little as possible, (2) the resultant product will stand up in color and taste during storage, and (3) the flour will lend itself to satisfactory inclusion in food recipes. Preliminary data indicate that these requisites can be realized more closely by an extremely rapid removal of moisture at relatively low temperatures.

The work accomplished during the latter part of the past year has consisted in the design and construction of an apparatus which will disperse the fish material in a drying medium in such a manner that extremely rapid drying can be effected. Preliminary studies on the nutritional value of this material have shown that different portions

of the waste are more nutritious than others.

HADDOCK-LIVER OIL

The increasing catch of haddock in the New England ground-fish fishery has made it imperative that more be known concerning the chemical nature and biological value of haddock-liver oil. This is especially true since it is believed by some that the present specifications for cod-liver oil, as stated in the United States Pharmacopæia, place the producers of haddock-liver oil at a distinct disadvantage; although the intention of the Pharmacopæia is to permit the use of haddock-liver oil along with cod-liver oil. At the present time but a very small portion of the domestic supply of fish livers is converted into oil, and any stimulation toward increased production of domestic liver oil would be of considerable service to the fishing industry.

The scope of the investigation now under way includes a study of the oil rendered from livers removed from haddock taken on all the important fishing grounds during an entire year. The data which are being correlated consist of: (1) Date of catch, (2) location of fishing ground, (3) color of oil, (4) specific gravity, (5) refractive index, (6) free fatty acid content, (7) unsaponifiable matter, (8) saponifica-

tion number, (9) iodine number, and (10) vitamin potency.

The data obtained up to the present writing show that haddock-liver oil is subject to considerable variation with regard to some of its physical and chemical properties. Further, on the basis of the trend of these data, which includes the period from September to December, some of these properties during the warmer seasons may be expected to fall beyond the limits of the Pharmacopæia.

IMPROVING THE TECHNICAL USEFULNESS OF DOMESTIC FISH OILS

One of the important problems facing the fish oil industry in this country is to find a better market for its output. In order to be of assistance to the fish oil industry in this connection, the bureau has undertaken a study to relieve this situation. The work on this problem at the present time is concerned with the natural variations in the properties of the oils from different sources; since one of the principal objections made by consumers of fish oils is their apparent lack of uniformity. On the basis of the data obtained it is hoped, as the first step, to be able to recommend when the various oils are most nearly fitted for the many uses which can be made of them.

NET PRESERVATION

As a result of the bureau's work on net preservation conducted by W. T. Conn a method of protecting heavy nets, such as traps, pounds, fykes, and seines, from deterioration has been developed. This makes use of toxic dyes applied to the thread or net. When these are used in connection with a specification coal tar, the tensile strength of exposed cable cotton has been extended beyond a degree previously thought possible. Specifically, tensile strength of 15-thread cable cotton, so preserved, increased constantly in all tests, during the season of greatest deterioration, between June and December. Crystal violet is considered the best dye for this service, but malachite green and thioflavine-S have proven only slightly inferior. Sources of supply of this dyed twine are now established and are available for prospective buyers.

A study of tars used for preserving nets has shown that many tars are of an inferior quality for net preservation. With the aid of the above test and through developmental work with tarit has been possible to prepare a tar which has maximum preservative qualities. Specifications for this net preservative tar have been drawn up, for the first time as far as known, and supplies of this specification coal tar certified for quality by the manufacturer are now available to

fishermen.

While the above application prevents deterioration and preserves tensile strength, it does not entirely eliminate weed growth on the net. It is possible to retard this weed growth or fouling by adding certain copper compounds to the coal tar dip applied to dyed twine. The reduction of fouling, however, is effected at some sacrifice to tensile strength.

Studies also were continued on developing formulæ for preserving light nets such as gill nets, trammel nets, and the like. As a result of this the value of copper cleate and chicle as preservatives, as previously reported, were confirmed. In addition, tung and pine oils were found

to have value as preservatives for light nets.

While certain preservatives have been efficacious in prolonging the life of light nets, an investigation on gill nets fished by a vessel out of Portland, Me., during the summer of 1931, has shown that many nets in this type of fishery deteriorate because of improper cleansing and storage. This deterioration can be retarded to a great extent by washing the net with lime water as soon as possible after each fish haul, and rinsing with clear water. The net should be removed from the reel as soon as dry, as direct sun rays injure the dry fabrics. A boxed damp net should never be covered, and when nets are to be stored they should be thoroughly cleansed, dried, and suspended in dry, well-ventilated shade.

Information obtained during research upon the preservation of fish nets indicates that the useful life of rope may be extended with comparatively little expenditure of time and money. It is possible that the toxic dye treatment described above for fish nets may be of value in this connection. However, it has been demonstrated by laboratory test that the dye must be applied to the hemp before the yarn is laid. Experiments in this direction have been made possible through cooperative research between this bureau and the Bureau of Construction and Repair, Navy Department. Preparation of test material is in progress at the naval rope factory at Boston, Mass.,

under personal direction of a technologist from this bureau.

MARKET AND INDUSTRIAL SURVEYS

Market and industrial surveys are made to supply the trade with useful market information regarding the distribution and consumption of fishery products and to supply descriptive and economic data on our fisheries and fishery industries.

SOME UNUSUAL MARKETS FOR FISH AND SHELLFISH

During 1931 surveys were made of the methods of several unusual markets for fish and shellfish by F. F. Johnson. These included commercial sport fishing in privately stocked waters, hot-fish shops.

clambakes, oyster roasts, oyster suppers, fish frys, etc.

The survey of commercial sport fishing covered 40 firms which it is estimated comprise 80 per cent of such firms in the United States. In addition, it covered 19 hatchery firms who indicated their intentions of opening commercials pools. Some of these latter firms already have pools under construction. The investment in sport fishing waters and in hatcheries operated by sport fishing concerns exceeded \$500,000 during the fiscal year ended September 30, 1931. The species used in these enterprises were usually rainbow and brook trout although some firms reported that cutthroat trout, black bass, and bullheads were used. About 322,000 pounds of fish were taken by some 29,000 sport fishermen during the year. Customary charges for fishing varied from 65 cents to \$1 per pound of fish taken.

It is estimated that sales through the hot-fish shops of Great Britain account for nearly 70 per cent of the fish landed in the country. The closest semblance to this type of trade in the United States is the hot-fish business in and around St. Louis, Mo. More than one-fourth of the total supply of whiting taken in the fisheries of the Middle and North Atlantic coasts are used in this trade. They are frozen shortly after capture near the fishing centers and usually reach the St. Louis markets in carload lots. The study of the development of the hot-fish trade in the St. Louis area has suggested the possibility

of similar activities in other cities.

Clambakes and oyster roasts are old American institutions which have been borrowed from our aboriginal predecessors and celebrated by all our generations much after the traditional fashion. A discussion of the methods of these functions has been deemed advisable due to the general lack of detailed information concerning them.

The full report of these marketing phases as well as of other unusual markets is contained in Fishery Circular No. 11 entitled "Some Unusual Markets for Fish and Shellfish." It may be purchased from the Superintendent of Documents, Government Printing Office.

Washington, D. C.

PUERTO RICO

Believing that the fishery resources of Puerto Rico were largely undeveloped and that methods for preserving and marketing fishery products in the island were inefficient, Gov. Theodore Roosevelt requested the Bureau of Fisheries to make an economic survey of the situation and to suggest procedures leading toward fuller development. In order to aid in this respect the bureau detailed N. D. Jarvis to undertake this work in cooperation with the Bureau of Commerce and Industry of Puerto Rico. The survey began on July 15 and was completed on November 19, 1931.

The results of the survey indicated that this belief was well founded. It was found that 87 per cent of all fishery products used was imported from other countries. The greater part of this was cod and other dry salt fish mostly from Nova Scotia and Newfoundland. The annual per capita consumption of fish is low as compared with near-by islands. This is about 14 pounds in the edible portion, as compared with a per capita consumption of 32 pounds in the near-by Virgin Islands. Fish are iced for shipment in only three localities. It is not the custom to use ice when retailing fish either while on display at retail stores and fish markets or in peddling in the streets and around the country.

Fish are not gutted, cleaned, or given anything approaching careful handling either by the fisherman or dealer. In addition, the native retail trade is reluctant to accept dressed fish. Gutting is believed to be a method of concealing inferiority. As a result much of the fish is stale, fresh fish is not sold in inland towns, and in comparatively small amounts along the coast. Consumption is decreased even where fish is available through fear of "fish poisoning." This is thought to be caused principally by eating stale or tainted fish.

While the catch may be increased somewhat on all sections of the coast, only two areas ar believed capable of producing catches much larger than those now taken. These are the grounds around the eastern and western ends of the island with Fajardo and Puerto Real as central points. These towns are even now the largest source of supply for San Juan, the principal market. Fish is shipped in metallined boxes by motor truck and is from four to nine hours on the road. Sufficient supplies of raw material are apparently not available for

the operation of a fish-reduction plant on a profitable basis.

Having concluded the market survey, the bureau's technologist remained on the island to develop methods for handling the catch. A résumé of this work is discussed on page 106 of this report.

PUBLICATIONS OF THE DIVISION

During the calendar year 1931 the following publications were prepared by members of the division. This list does not include the monthly statistical bulletins of the landings of fishery products at Boston and Gloucester, Mass., Portland, Me., and Seattle, Wash., nor the monthly reports on cold-storage holdings of frozen fish and quantities of fish frozen. The fishery documents, reports, and circulars may be purchased at the prices shown from the Superintendent of Documents, Government Printing Office, Washington, D. C. The statistical bulletins and special or S-memoranda are distributed free of charge upon request to the bureau. The special articles may be obtained from the sources of publication.

Those wishing to receive current copies of this report and statistical bulletins issued by the bureau should request that their names be placed on the bureaus' mailing lists No. 128 for the annual statistical report, 128a for general statistical bulletins, and 128b for monthly cold-storage reports. Those desiring historical statistical data on the domestic fisheries for the period 1880 to 1929 should consult the report entitled "Fishery Industries of the United States, 1930," by R. H. Fiedler, Appendix II to the Report of the U. S.

Commissioner of Fisheries for the fiscal year 1931.

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DOCUMENTS, REPORTS, AND CIRCULARS.

COBB, JOHN N.

Pacific salmon fisheries. 8°, 293 pp., 48 figs. Fishery Document No. 1092. 65 cents.

CONN, W. T.

Application of preservatives to fishing nets. 8°, 6 pp., 5 figs. Fishery Economic Circular No. 74. 5 cents.

Daniel, Esther Peterson, and E. V. McCollum.

Studies on the nutritive value of fish meals. 8°, 19 pp., 6 figs. Fishery Investigational Report No. 2. 5 cents.

FIEDLER, R. H.

Fishery industries of the United States, 1930. Appendix II, Report of Commissioner, 1931. 8°, 444 pp., 21 figs. 80 cents. Harrison, Roger W.

The menhaden industry. 8°, 113 pp., 30 figs. Fishery Investigational Report No. 1. 25 cents.

Market for marine animal oils in the United States. 8°, 78 pp., 17 figs. Fishery Investigational Report No. 7. 15 cents. Harrison, Roger W., and S. R. Pottinger.

Commercial production of menhaden fish oil for animal feeding. 8°, 11 pp., 1 table. Fishery Investigational Report No. 4. 5 cents.

LEMON, J. M.

Market for fresh oysters in fourteen cities of the United States. 8°, 25 pp., 6 figs. Fishery Circular No. 3. 10 cents.

LUCAS, CLARENCE R.

Review of the fish-farming industries of the United States. 8°, 16 pp., 7 Fishery Circular No. 2. 5 cents.

MANNING, JOHN RUEL, E. M. NELSON, and CHESTER D. TOLLE.

Vitamin D in menhaden fish oil. 8°, 5 pp., 1 fig. Fishery Investigational Report No. 3. 5 cents.

SPECIAL ARTICLES

CONN, W. T.

Standard preservatives for fish nets. Commercial Standards Monthly. February, 1931. Washington.

Application of preservatives to fishing nets. Fish and Oyster Reporter.

June, 1931. Tampa, Fla.

Net preservative research, 1926–1929. Technological Report No. 1, 1931.

Available for reference only at the United States Bureau of Fisheries
Library, Department of Commerce, Washington.

Net preservative research, 1930. Technological Report No. 2, 1931.

Available for reference only at the United States Bureau of Fisheries
Library, Department of Commerce, Washington.

FIEDLER, R. H.

Statistical research in the fisheries. Address before second statistical conference of the division of fishery industries. Washington, February 19, 1931. Published in United States Daily, March 26 and 27, 1931. Washington; Bureau of Fisheries Memorandum S-325, 1931. Washington.

Trade in fresh and frozen fishery products. Fish and Oyster Reporter.

March, 1931. Tampa, Fla.

Fish supply of nation subject to investigation. Louisiana Conservation Review. May, 1931. New Orleans.

Progress in commercial fisheries. Address before Southern Fisheries Association. Jacksonville, Fla., June 10, 1930. Published in Fish and Oyster Reporter, June, 1930. Tampa, Fla.

The package fish trade. Fishing Gazette Annual Review number, June 15,

1931. New York.

How Federal bureau aids fishing industry. United States Daily, June 24, Washington. Louisiana Conservation Review, November, 1931. New Orleans.

Problems connected with freezing fish. United States Daily, June 25, 1931. Washington. Louisiana Conservation Review, October, 1931. New

The growth of the packaged fish trade. Maryland Fisheries, No. 11, July, 1931. Baltimore.

FOGELBERG, JOHN M.

Deterioration of fish nets in fresh water. Technological Report No. 3, 1931.

Available for reference only at the United States Bureau of Fisheries Library, Department of Commerce. Washington. HARRISON, ROGER W.

Standards in the manufacture of fish meal. Commercial Standards Monthly, November, 1930. Washington.

Suggestions for storing fish oil. Fishing Gazette, January, 1931. New York. Significance of recent rapid growth in whale oil production. Address before American Oil Chemists Society in Chicago, Ill., October 30, 1931. Published in Soap, November, 1931. New York. Bureau of Fisheries Special Memorandum 1721-23. Washington.

Jarvis, N. D.

The following articles were published in the Daily News at St. Thomas, Virgin Islands, 1931. Preservation of fish, June 19 and 22. Value of fish as food, June 24. Salting of fish, June 25. Smoking fish, June 27, Processes recommended for dry-salting fish in the Virgin Islands, July 13. Recommendations for handling fresh fish in the Virgin Islands, July 15. The following articles were published in the Puerto Rico Progress, San Juan, Puerto Rico, 1931. Fisheries of Puerto Rico, August 27. Food

value of fish, September 3.

The following articles were published in El Mundo (Spanish) San Juan, Puerto Rico, 1931. Problems affecting fisheries development in Puerto Rico, September 6. How to salt fish in Puerto Rico, October 29. to build a smokehouse and smoke fish, November 1.

Observations on the fisheries of Puerto Rico. El Imparcial (Spanish),

September, 1931. San Juan, Puerto Rico.

Johnson, F. F.

Compiling data on scope of fishing industry. United States Daily, Septem-Washington. ber 12, 1931.

Statistics on production of canned fish. United States Daily, November 12,

1931. Washington.

LEMON, J. M.

Standards for refrigeration of fish. Commercial Standards Monthly, March, 1931. Washington. Ice and Refrigeration, April, 1931. Chicago. United States Daily, May 5, 1931. Washington.

Development of processes for preserving foods. United States Daily.

November 13, 1931. Washington.

MANNING, JOHN RUEL.

Fish meal for poultry feeding. Poultry Success, January, 1931. field, Ohio.

Seafoods yield iodine essential to balanced diet. Louisiana Conservation

Review, January, 1931. New Orleans.

New dietary standards developed. Commercial Standards Monthly, January, 1931. Washington. Flour and Feed, February, 1931. Milwaukee. Marine products in our national dietary. Address before District of Columbia Medical Society, Washington, D. C., March 11, 1931. Published in Bulletin of Medical Society of the District of Columbia, July, 1931.

Washington. Bureau of Fisheries Special Memorandum 2468, Washing-Fish and Oyster Reporter, May, 1931. Tampa, Fla.

Seafood more important in diet as soil minerals are depleted. United States Daily, March 17, 1931. Washington.

Seafood said to furnish iodine in palatable form. United States Daily, March 21, 1931. Washington.

Discussion on diet and dentition. Address before the District of Columbia Dental Society, Washington, D. C. Published in the Dental Cosmos, April, 1931. Philadelphia.

Marine products a source of iodine. Flour and Feed, May, 1931. Milwaukee. The place of marine products in animal nutrition. Feedstuffs, May

30, 1931. Minneapolis.

Manufacture and uses of marine products with relation to animal nutrition. Address before American Feed Manufacturers' Association, French Lick Springs, Ind., June 5, 1931. Published in Feed Bag, June, 1931. Milwau-kee. Feedstuffs, June 6, 1931. Minneapolis. Flour and Feed, July, 1931. Milwaukee. Bureau of Fisheries Special Memorandum 2255A. Washington.

Manning, John Ruel—Continued.

Analyzing food value of fishery products. United States Daily, September

14, 1931. Washington.

The relation of public institutions to public health and child welfare. address over station WRC, Washington, D. C., October 12, 1931. Bureau of Fisheries Special Memorandum 2482, 1931. Washington. TOLLE, CHESTER D.

Discussion on diet and dentition. Address before District of Columbia Dental Society, Washington, D. C. Published in The Dental Cosmos, April, 1931. Philadelphia.

Tolle, Chester D., and E. M. Nelson.

Salmon oil and canned salmon as sources of vitamins A and D. Address before Division of Biological Chemistry, American Chemical Society, Indianapolis, Ind., April 1, 1931. Published in Industrial and Engineering Chemistry, September, 1931. Washington.

STATISTICAL BULLETINS

Fisheries of the New England States, 1929. Statistical Bulletin No. 926. Fisheries of the Middle Atlantic States, 1929. Statistical Bulletin No. 923. Fisheries of the Chesapeake Bay States, 1929. Statistical Bulletin No. 908. Fisheries of the South Atlantic and Gulf States, 1929. Statistical Bulletin No. 925.

Fisheries of the Pacific Coast States, 1929. Statistical Bulletin No. 930.

Lake fisheries, 1929. Statistical Bulletin No. 933.

Fisheries of the United States and Alaska, 1929. Statistical Bulletin No. 928. Production of cured fishery products in the marine and lake sections of the United States and Alaska, 1929. Statistical Bulletin No. 932.

Canned fishery products and by-products of the United States and Alaska, 1930. Statistical Bulletin No. 927.

Production of fresh, frozen, and smoked packaged fishery products in the United States, 1930. Statistical Bulletin No. 924.

Fishery products frozen and cold-storage holdings of frozen and cured fishery products in the United States and Alaska, 1930. Statistical Bulletin No. 920.

Fisheries of Alaska, 1930. Statistical Bulletin No. 922.

Landings by fishing vessels at principal New England ports, 1930. By months. Statistical Bulletin No. 911.

Landings by fishing vessels at the three principal New England ports, 1930. By

gear and fishing grounds. Statistical Bulletin No. 912. Fishery products landed by United States vessels at Seattle, Wash., 1930. By

banks. Statistical Bulletin No. 913.

Part 2. FISHERY STATISTICS 3

REVIEW, 1930

GENERAL

The catch of fishery products in the United States and Alaska during 1930 was slightly less than in the previous year. The value of the catch also decreased as compared with 1929. The value of the output of canned fishery products and by-products in 1930 decreased as did the production of packaged fish. The output of cured fishery products increased slightly in quantity in 1930 as compared with the previous year but decreased in value. The production of frozen fish increased over 1929, and both imports and exports of fishery products decreased as compared with 1929.

During 1930, the domestic fisheries employed about 120,000 persons as fishermen, 4,500 on transporting craft, and about 86,000 were en-

³ With reference to the figures published in part 2 the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

gaged in the wholesale and manufacturing industries, a total of 204,000 persons, exclusive of duplication. The catch amounted to

3,286,580,000 pounds, valued at \$109,349,000.

In 1930, in the marine and lake sections of the United States and Alaska, the production of canned fishery products amounted to 577,783,000 pounds, valued at \$83,015,000; and the output of byproducts was valued at \$19,560,000. The production of fresh and frozen packaged fishery products amounted to 157,378,000 pounds, valued at \$28,996,000. The production of cured fishery products amounted to 124,497,000 pounds, valued at \$16,837,000. The pack of frozen fishery products in the entire United States and Alaska amounted to 139,297,000 pounds, estimated to be valued at \$16,500,000. In addition, it is estimated that \$5,000,000 worth of fishery products were cured or manufactured into by-products in the Mississippi River and tributaries section during 1930—making the total value of all manufactured products in the entire United States and Alaska in 1930 about \$170,000,000.

Fishery products imported for consumption were valued at \$50,830,-

000, while domestic exports were valued at \$17,276,000.

NEW ENGLAND STATES

The most recent general statistics of these States, which are for 1930, show that the catch exceeded that in any year for which there are records, although the value of the catch was exceeded in 1929. The catch increased 1 per cent in quantity and decreased 5 per cent in value as compared with the catch and its value in the previous year. Larger catches of ground fish offset the considerable decrease in sea herring and mackerel. Landings of fish at Boston, Gloucester, and Portland were the largest on record during 1930, although the value of these fish was somewhat less than in the previous year.

The output of packaged fish registered a decline of 7 per cent as compared with that in 1929. The frozen fish trade shows a considerable increase in 1930 over the previous year. The production of sardines, which is the principal fish-canning industry in this section and is centered in Maine, showed a large decrease as compared with the previous year. The cured-fish industry decreased in volume as

compared with 1929.

MIDDLE ATLANTIC STATES

The catch of fishery products of the Middle Atlantic States in 1930 exceeded that in any year for which there are records. The value of the catch was slightly less than in 1929, the largest on record. The increased catch is due largely to the increase in volume of menhaden and alewives, while the decrease in value is due mainly to a smaller production in the oyster industry.

Landings of fish at New York City and Groton, Conn., which consisted largely of haddock, flounders, cod, mackerel, and tilefish, decreased considerably as compared with 1929. The packaged fishtrade decreased also, as did the trade in frozen fish. The catch of shad in the Hudson River increased slightly over 1929. The production of cured fish showed a considerable increase over the previous year.

CHESAPEAKE BAY STATES

In 1930, the catch of fishery products of the Chesapeake Bay States exceeded that in the previous year. The value of the catch was slightly less. However, the catch was the smallest on record since 1888, with the exception of 1929. The decline in the volume of the menhaden catch has been largely responsible for this decrease in the total catch. The catch of shad in the Potomac River during 1930 was much less than that in 1929, but the catch of alewives increased slightly. The production of packaged fish was about the same as in 1929. The production of cured fish was considerably larger than during the previous year. The value of the production of menhaden products in 1930 was approximately the same as that in 1929.

SOUTH ATLANTIC AND GULF STATES

Statistics of the fisheries of the South Atlantic and Gulf States for 1930 show a considerable decrease in the catch of fishery products and the value of the catch as compared with the previous year. This is due largely to decreases in the volume of the catch of menhaden, oysters, and shrimp. There was a considerable increase in the production of packaged fishery products as compared with 1929. The production of cured fishery products also was greater than during the previous year.

There were decreases in the production of canned oysters and shrimp as well as menhaden products. The manufacture of each of these

products is an important industry in this section.

PACIFIC COAST STATES

Statistics of the fisheries of the Pacific Coast States for 1930 show a decrease in the catch of fishery products and the value of the catch as compared with the previous year. This is due mainly to decreases in the volume of the catch of pilchards and salmon. The production of frozen fishery products was greater in 1930 than in 1929. The pack of cured fish decreased in 1930 as compared with the previous year. There was a decrease of 35 per cent in the pack of salmon in 1930 as compared with 1929, due to the smaller pack of humpback or pink salmon, as 1930 was the "off year" for these species. Compared with the pack in 1928, the previous "off year," there was an increase of 25 per cent in the pack. There was a decrease in the pack of sardines in 1930, but an increase of 34 per cent in the pack of tuna and tunalike fishes as compared with 1929. The landings of the halibut fleet in 1930 decreased somewhat from those in the previous year.

LAKE FISHERIES

The United States fisheries prosecuted in the Great Lakes and the International Lakes of northern Minnesota show an increase in the volume of the catch in 1930 as compared with the previous year, and a slight decrease in the value of the catch. A large increase in the catch of blue pike was responsible mainly for the increase in the catch. Beginning in 1929, a revised statistical procedure was used, incorporating the inclusion of certain products not canvassed in recent surveys, and a change in the methods of collecting statistics

in some of the States. The catch of cisco, although much greater than in 1929, is still far below the volume once attained as an important product of the fisheries of Lake Erie. The production of cured ishery products increased as compared with 1929.

MISSISSIPPI RIVER AND TRIBUTARIES

No general survey of the fisheries of Mississippi region has been made since 1922, and therefore no recent trend can be determined. The yield of fresh-water mussels, which contributed approximately one-half to the total weight of the catch in 1922, shows an increase in 1930, not only over the production of 1922, but also that of 1929. The fisheries of Lake Pepin and Keokuk decreased in volume and value as compared with the previous year, but the catch and its value in the Mississippi River between these two lakes increased in 1930.

ALASKA

The catch of fishery products of Alaska in 1930 was somewhat less than during the previous year, and the value of the catch was considerably less. There was a decrease in the pack of salmon amounting to 6 per cent as compared with the pack in 1929. The catch of herring as well as that of halibut was somewhat less than in the previous year. There was an increase in the frozen fish and cured fish production over 1929.

Fisheries of the United States and Alaska, 1930 1

SUMMARY OF CATCH: BY SECTIONS

Product	New E	nglan	d Mide	lle Atlan	tie Cl	esapea	ke		Atlant d Gulf	ic	Pac	eific
Fish Shellfish, etc Whale products	Quan- tity 645, 574 55, 777	Vali 19, 2 8, 2	232 131,	Val:	Qua tit; 588 199, 476 117,	y Vo 327	ilue 1, 391 7, 081	Quan tity 301, 2: 116, 54	Val:	278 806 787 22	an- ty 5, 754 2, 790 3, 844	1,594
Total	701, 351	27,	193,	868 13,	316,	393 1	l, 472	417, 7	59 11,	065 833	388	23, 064
Product		Lakes Mississippi River and tributaries			Alas	ka.		Tota	al			
FishShellfish, etc Whale products			Quan- tity 89, 612 5, 336				0 60	uan- tity 09, 305 1, 980 9, 417	Value 12, 178 108 470	Quan tity 2, 836, 436, 13,	894	Value 75, 155 33, 557 637
Total		94, 948	6, 050	108, 171	4, 38	35 63	20, 702	12, 756	3, 286,	580	109, 349	

¹ All figures are for 1930, except those for the Mississippi River and tributaries. In this section the figures on the catch of mussels are for 1930 and other figures are for 1922.

Fisheries of the United States and Alaska, 1950-Continued

OPERATING UNITS: BY SECTIONS

Item

New

England

Middle

Atlantic

Chesapeak

South

Atlantic

and Gulf :

9, 735

4, 374 100, 181

600

12, 225

Fishermen: On vessels On boats and shore		Num 1	<i>ber</i> 6, 192 0, 885	Number 4, 665 5, 940	Number 2, 579 16, 812	Number 3, 484 20, 136
Total		1	7, 077	10, 608	19, 391	22, 590
Vessels: Steam Net tonnage. Motor Net tonnage. Sail Net tonnage.			64 9, 033 649 8, 583 5 50	15 1, 940 463 6, 998 97 2, 306	25 2, 902 87 1, 453 279 3, 015	8 165 589 9, 255 78 1, 224
Total vessels Total net tonnage		2	718 7, 666	575 11, 244	391 7, 370	670 10, 645
Boats: Motor Other Apparatus: Haul seines			4, 688 4, 099	2, 014 2, 036 341	8, 217 5, 603 375	5, 980 8, 565 1, 211
Purse seines. Otter trawls (including all types and sizes) Gill nets Trammel nets			185 565 3, 524	37 180 3, 570	49 12 19, 989	78 2, 306 18, 100 449
Found nets, trap nets, and weirs			542 258	758 87 4, 534	2, 954 6 - 3, 472	2, 399 3, 976
Hag nets and pocket nets		4, 68	182 235 6, 790	794, 602	2, 108 1, 642, 961	2, 420 358, 692 50
Fish wheels Eel pots and traps Lubster pots Crab and crawfish pots, traps, drags, etc. Clam dredges.		33	5, 045 2, 791 3, 530 84	10, 465 51, 946 58	13, 292	1, 592 3, 946 78
Crab dredges Mussel dredges Oyster dredges Scallop dredges and drags Crab scrapes			300 3, 522	53 8 674 1, 219	966 924 1, 850	720 330
Tongs, rakes, hoes, forks, grabs, etc			4, 443 2, 442	3, 230 259	11, 236	3, 836 338 2, 942
ltem	Pa	cific	Lake	Mississi pi Rive and trib utaries	Alaska	Total
Fishermen On vessels On boats and shore	Nu	mber 6, 165 13, 409		Number 660 320 12, 3	. 10, 189	Number 34, 904 84, 812
Total.		19, 574	6,	980 12, 3	10, 189	119, 716
Vessels Steam Net tonnage Motor Net tonnage Set tonnage Sail		6 182 849 21, 609 8	2, 3,	107 374 360 726	617 682 11,606	8, 679

Net tonnage .

Total vessels Total net tonnage

3, 140 ...

863 24, 931 467

6, 100

Includes the operating units used in the fisheries of Lake Okeechobee, Fla.

Includes the operating times used in the institutes of times consumers, and includes persons in boat and shore fisheries.

Includes dip nets, cast nets, scap nets, reef nets, and other minor nets, includes but traps, wire baskets, harpsons, spears, gaffs, crab and crawfish hooks, periwinkle and cookie pots, and other apparatus not included in "Other nets."

Fisheries of the United States and Alaska, 1930 —Continued OPERATING UNITS: BY SECTIONS-Continued

Mississip pi River and trib-Item Pacific Lakes Alaska Total utaries loats: Number Number Number Number Number 35, 437 37, 961 Motor. 5, 942 1, 614 2, 215 1, 664 4, 597 10, 941 1, 814 3, 439 Other ... paratus 3, 426 212 Haul seines. 243 189 1, 447 Purse seines 395 703 Lampara nets. 241 241 Otter trawls (including all types and sizes) ... 3, 063 Beam trawls..... 55 9 64 Paranzella nets 93, 542 5, 290 Gill nets... 5, 108 866 159, 989 Trammel nets... 1,063 61 459 Pound nets, trap nets, and weirs... 670 7, 947 11 708 15, 989 Stop nets 93 Fyke nets... 2, 102 2, 515 49,652 Bag nets and pocket nets ... 69 Other nets 4 389 Hooks, baits, or snoods.... 9, 508, 149 1, 196, 533 Fish wheels. 39 266 Eel pots and traps..... Lobster pots... 384, 737 Shrimp nets and traps... 4, 360 360 Crab and crawfish pots, traps, drags, etc. 18, 634 5, 418 620 Clam dredges Crab dredges ... 235 Mussel dredges..... Oyster dredges... 2,660 Scallop dredges and drags..... 5, 995 Crab scrapes_____ Tongs, rakes, hoes, forks, grabs, etc____ 1,850 3,479 804 1,810 28, 838 Crowfoot bars (pairs) 285 3, 490 775 Abalone outfits..... 13 13 338 Sponge apparatus. 4, 592 Other apparatus 6. (5) 10, 253

CATCH: BY SECTIONS 7

Species	New England		Middle Atlantic		Chesapeake			Atlantic Bulf 8	Pacific	
Species	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value
FISH										
Alewives Amberjack Anchovies	4, 106	37	5, 292	36	21, 128	268	10, 207 21	74 1	320	4
Barracuda									4,764	
Black bassBluefishBlue runner or hard- tail	70 5	83	3, 814	393	19 498		440 2, 038 756	110		-
Bonito Bowfin	140	11	417	27	49	3	20 19	(⁹)		
BuffalofishButterfish Babio or crab-eater Cabrilla	1, 905	140	3, 137	237	4, 291 (9)	201 (°)	116 183 14		510	27
Carp	21	2	358	45	469	34	470	32		

Includes dip nets, cast nets, scap nets, reef nets, and other minor nets.

Number not determined. Includes box traps, wire baskets, harpoons, spears, gaffs, crab and crawfish hooks, periwinkle and cockle pots, and other apparatus not included in "Other nets."
 Salt fish have been converted to the basis of round weight.

⁸ Includes the catch of fish taken in Lake Okeechobee, Fla.

Less than 500 pounds or \$500.

⁻Whaling apparatus, the number of which was not determined, was used in the Pacific Coast NOTE. States and Alaska.

Fisheries of the United States and Alaska, 1930—Continued CATCH: By SECTIONS—Continued

Species	New E	ngland	Middle	Atlantic	Chess	peake		Atlantic Gulf	Pac	ifiç
b pecies	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value
FISH—continued										
Catfish and bull- heads	118	3	94	10	807	35	5, 376	237	433	58
CeroCigarfish			20	2			19	i		
Cod	101,632	3, 043	10, 679	335	50	1	1	(9)	19, 236	302
Crappie							900 103	34		
Croaker	151	6	2,890	87	22, 022	525	5, 270	82		
Cunner	106		8	···(9)						
Cusk Dolly Varden trout	6, 140	100	°	(9)					2	(9)
Dolphin	(9)	(9)	1	(9)			5	1		
Drum:			7	(0)		,	1,287	43		
Black			65	(º) 12	64 52	1 2	2, 616	148		
Eels	1,355	132	1,272	147	389	34	159	12	(º) 13, 415	(9)
FloundersFlyingfish	49, 166	1,863	9, 559	374	662	31	696	44	13, 415	846
Frigate mackerel	385	18							**0	
Garfish							1	(9)		
Gizzard shadGoldfish			1	(9)	168 13	4	39	1		
Goosefish	(9)	(9)	38	1	19	1				
Grayfish	`´ 93	`′ 3	13	(9)					1,018	13
Groupers							3, 346	101		
Grunts Haddock	264, 549	8, 531	(°) 2, 574	(⁹)			48	2		
Hagfish			7	(9)						
Hake	32, 206	557	366	``6	1	(9)			56	1
Halfmoon Halibut	3, 167	497	5						37 13, 546	1,631
Hardhead	3, 107	457							39	1,001
Harvestfish or "star-						400				
fish" Herring, sea	82, 901	503	692		(9)	(9)	343	10	1,377	13
Hickory shad	4	(9)	092		90	3	387	17	1,011	
Hogfish							2	(9)		
Horse mackerel Jewfish							44		369	11
Kingfish (California)							71		457	11
Kingfish (California) Kingfish or "king										
mackerel" King whiting or							3, 689	175		
"kingfish"	(9)	(9)	86	9	5	(9)	583	24		
Launce	(⁹)	4								
"Lingcod"					49				2, 503	98 243
Mackerel Menhaden	50, 701 1, 708	1,768	1, 120 52, 478	46 368		767	199, 167	806	16, 531	242
Minnows	36		166							
Mojarro Mullet						5	81	910	21	
Mummichog	8	(9)	65 126	4	115	٥	28, 021	910	21	4
Muttonfish				1			225	15]
Paddlefish							.2	(9) (9)		
Permit Pigfish					69	3	15 157	(*) 3		
Pike or pickerel	(9)	(9)	1	(g)	11	2	10	í		
Pike or pickerel Pilchard									494, 451	2,377
Pilotfish Pinfish			2	(9)			112			
Pollock	17,820	306	114	3						1
Pompano					2	(9)	602	117	2	,1
Porgies Porkfish							56	/º\ 2		
Rock bass								.(9)	508	32
Rockfishes									7, 969	32 309
Rosefish	117	2	1	(9)						182
oaniensn	·	'- -		اا			' '		4, 332	192

⁹ Less than 500 pounds or \$500.

Fisheries of the United States and Alaska, 1930—Continued CATCH: By SECTIONS—Continued

*

						a = 1 = 1		5=8 - 81	5171 50 4 1		
Species	New E	ngland	Middle	Atlantic	Chesa	peake	South A	Atlantic Gulf	Pac	ific	
2,000	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	
rish—continued											
Salmon: Atlantic	88	27									
Atlantic									25, 103	2, 404	
Chinook or king Chum or keta									37, 843 12, 668	4, 153 117	
Humpback or											
pink Silver or coho									272 23, 729	1, 299	
Sculpin	2, 723		8, 681	217	464	23			90	9	
Baa hass	192	118 14	3, 886	161	212		442	29	394	20	
Sea bass, white (California)									1,626	144	
Sea robin Shad	235 201	3 16	132 450	2 82	7, 181	(º) 1,139	2, 541	426	3, 043	82	
Sharks Sheepshead, salt-wa-	103	2	177	4			2, 497	5			
Silversides			260	12			1, 077	41	244	9	
Skates	1, 016	10	269	5	3	(0)	1	(⁹)	288	6	
Smelt Snapper:	796	1 141	3	1					3, 392	117	
, Mangrove							125	5		 	
Red			4	(9)			7, 113 408	595 14			
Spadefish							50	1			
Spanish mackerel Spearfish	····(§)	(3)	16	1	58	7	6, 355	311	43	2	
Split-tail									19	1	
SpotSquawfish			693	31	2, 619	132	2, 521	44	5	(°)	
Squeteagues or "sea trout":											
Gray	186	19	13, 272	466		753	3, 396	142			
Spotted Squirrelfish	.1	(9)			202	24	5, 206	(°)			
Steelhead trout									3,954	331	
Striped bass	89	17	205	40	1, 653	271	457	61	882	92	
geon roe	9	1	22	9	5	1	32	6	142	6	
Suckers	113	8	79 2	(%)			16 443	1 13	2	(%)	
Surf fishes									371	15 75	
Tautog	5, 135 555	876 32	234 338	38 15	1	(9)			563		
Penpounder Phimble-eyed mack-							191	6			
erel Filefish	1, 783	97	36 2, 312	89							
romcod	74	ľ	121	5	(9)	(0)			23	ì	
Pripletail							13	1			
Albacore Bluefin									286 21, 921	24 1, 238	
Bonito									5, 164	167	
Skipjack or striped									20, 486	790	
Yellowfin Horse mackerel	274	15	148						56, 654	3, 396	
Purbot							i	(4)			
Whitebait			96						179 225	12 13	
White perch	50 9, 863	108	380		616	41	442	33			
Whiting Wolffish	2, 651	54	4, 113		1	l					

Less than 500 pounds or \$500.

Fisheries of the United States and Alaska, 1930-Continued CATCH: By sections-Continued

Species	New E	ngland	Middle	Atlantic	Chesa	peake		Atlantic Gulf	Pac	ific
Species	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value
FISH—continued										
Yellow perch Yellowtail Miscellaneous fish	1	(9)	232 3	(v) 20	154	13	96 89	7 7	4, 771 144	210 5
Total	645, 574	19, 232	131, 638	3, 588	199, 327	4, 391	301, 218	5, 278	806, 754	21, 303
SHELLFISH, ETC.										
Abalone	29	5							647 30	130 10
Hard Pismo Razor	3, 822	858 20	2, 577	1, 055	1, 294	432	1, 042	. 89	515 22 838	38 10 159
Soft Surf Mixed	13, 299 38	644 4	1, 131 423	158 50					62	11 i
Conchs			35	3			20	(9)		
Hard King Rock	1, 952	129	417 6, 184	29 29 (*)	60, 565	1, 072	6, 493	105	4, 540	399
SoftStone			135	22	8, 194	650	531 308	117 27		
CrawfishLobsters:									177	18
Common Spiny	12, 357	3, 218	1, 559	369			288	27	1, 394	263
Mussels, sea Octopus	11	2	295	14	 '		4	(9)	(9) 163	(⁶)
Oysters: Eastern, market, public	46	11	34 2	45	21, 648	2, 569	13, 341	835		
Eastern, market, private	9, 386	1, 736	21, 175	4, 032	15, 076	1, 783	5, 243	581	75	31
Eastern, seed, public Eastern, seed,	1, 362	168	19, 773	2, 520	8 , 23 5	417				
private Western, market.	4, 685	682	4, 037	554					316	259
Japanese,market. Periwinkle Scallops:	330	39							228	83
Bay	1, 529 947	437 186	397 1, 503	115 264	1, 825	148	454	56	12	4
Shrimp Squid Terrapin	5, 506	112	341 1, 773	29 55 7	225 2	8 2	88, 117 67	2, 995 21	2, 785 10, 980 (9)	49 118
TurtlesIrish moss	93	6	11	i 	2 2	(9)	84	3	1	(%)
Sponges Bloodworms Sandworms			54 58	63 61			549	931		-
Total	55, 777	8, 261	62, 230	9, 476	117, 066	7, 081	116, 541	5, 787	22, 790	1, 594
WHALE PRODUCTS 10										
Oil, whale									3, 844	167
Total									3, 844	167
Grand total	701, 351	27, 493	193, 868	13, 064	316, 393	11, 472	417, 759	11, 065	833, 388	23, 064

⁹ Less than 500 pounds or \$500.

¹⁰ The weight of whales caught was not determined; therefore, the weight of the manufactured product is shown.

Fisheries of the United States and Alaska, 1930-Continued

CATCH: BY SECTIONS-Continued

						(4)		
Species	Lal	kes	Missi Rive tribu		Ala	ska	Total	
	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quantity	Value
FISH								
Alewives				•			40, 733	415
Amberjack							21	1
Anchovies Barracuda							320 4, 764	379
Black bass			74	11			533	61
Bluefish							7, 055	628
Blue pikeBlue runner or hardtail	11,823	568					11, 823	568
BonitoBonito							756 626	14
Bowfin	19	(9)	190	6			228	1
Buffalofish	1	(9) (9)	17, 267				17, 384	1, 020
Butterfish							9, 516	582
BurbotCabio or crab-eater	642	17					642 14	17
Cabrilla							510	27
Carp	3, 293	106		872			23, 233	1, 099
Catfish and bullheads	641	43					15, 562	1, 100
CeroChubs	6, 162	469			••		6, 162	469
Cigarfish		107					58	208
Cisco	347	40					347	40
Cod					914	6		3, 687
Grappie Crevalle	4	1	512				1, 416 103	84
Croaker							30, 333	700
Cunner							106	3
Cusk							6, 148	133
Dolly Varden trout					92	9	94	9
Dolphin Drum:							6	1
Black			- 				1, 358	44
Red or redfish							2, 733	162
Eels	5	(9)	16	1	327	8	3, 196	326
Flounders Flyingfish					327	٥	73, 825 48	3, 166
Frigate mackerel							385	18
Garfish	- 						1	(8)
Gizzard shad							208	(0)
GoldeyeGoldfish		(⁹)					(9) 77	(⁹)
Goosefish							38	î
Grayfish							1, 124	16
Groupers							3, 346	101
GruntsHaddock							267, 123	8, 608
Hagfish							7	(9)
Hake							32, 629	564
HalfmoonHalibut					35, 063	2 001	51, 781	5, 120
Hardhead					30,003	2, 391	39	5, 120
Hardhead							343	10
Herring:	1			1	145 070	1 000	020 640	1 010
Sea Lake	22, 482	519			145, 672	1, 093	230, 642 22, 482	1, 616 519
Hickory shad.							481	20
Hogfish							2	- (°)
Horse mackerel							369	11
Jewnsn. Kingfish (California). Kingfish or "king mackerel". King whiting or "kingfish". Lake trout. Launce. "Lingcod". Mackerel. Menhaden. Minnows.							457	11
Kingfish or "king mackerel"							3, 689	175
King whiting or "kingfish"		:-:					674	33
Lake trout	9, 497	1, 175					9, 497 183	1, 175
"Lingcod"					35	1	2, 538	99
Mackerel							68, 401	2, 061
Menhaden							369, 195	1, 958
		(9)						3
Mooneye		(9)	3	(9)			39	(9)
A Topy than 500 payrds or \$500	. 30	,		,			. 50	` '

⁹ Less than 500 pounds or \$500.

Fisheries of the United States and Alaska, 1930—Continued CATCH: By SECTIONS—Continued

Species	Lai	kes	Rive	ssippi r and taries	Ala	ska	Tota	al
2,700.00	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quantity	Valu
FISH—continued						1		
Iullet							28, 230	9
fummichog futtonfish addlefish ermit	•						133	
Tuttonfish							225	
addlefish			1, 411	162			1,413	1
ermit							15	(%)
							226	
ike or pickerel							22	
ike (jacks)	525	38	20	, 2			545	
ike or pickerel ike (jacks) ilchard							494, 451	2, 3 (º)
110tusu							112	(4)
infish							17, 934	3
ollock							606	1
ompanoorgies							56	-
orlefish	Mariana American						ı	(9)
millback			765	50			765	(-)
uillbackock bassockfishes	17	1	100	(9)			528	
ockfishes.	1		l "		9	(9)	7, 978	3
osefish							118	
ablefish					661	21	4, 993	2
almon:							'	
Atlantic							88	
Blueback, red or sockeye					76, 339	2,742	101, 442	5, 1
Chinook or king					17, 553	521	55, 396	4, 6
Chum or kets					59, 587	581	72, 255	6
Humpback or pink					241, 616	3, 404	241, 888	3, 4
Silver or cohoauger pikeculpin					31, 347	793	55, 076	2, 0
auger pike	1,831	95	5	1			1,836	
culpin							90	
cup/	[3
ea bass							5, 126	2
ea bass, white (California)							1,626	1
ea robin							368	1 7
had							13, 416 2, 777	1, 7
harksheepshead:							2,777	
Solt-water		1		l			1, 321	
Salt-waterFresh-waterilversides	2 000	88	5, 261	200			8, 170	3
ilversides	2, 505	00					260	_ ~
kates							1, 577	
kipper							6	
melt	(9)	(9)			57	5	4, 248	2
nanner:	13.16		in necessary	D 200 D 10000	30.55	*	-,	-
Mangrove							125	
Red							7, 117	5
nook							408	
padefish panish mackerel pearfish plittail							50	
panish mackerel							6, 472	3
pearfish							(9)	(9)
plittail							19	
pot							5, 833	/ ₀ \ ²
quawfish							5	(9)
queteagues or "sea trout":	ļ	1					36, 120	1, 3
GraySpotted							5, 409	1, 0
quirrelfish							0, 103	(⁹)
teelhead trout					33	3		` '3
triped bass							3, 286	4
turgeon and sturgeon roe	43	11	11	1			264	
turgeon, shovelnose			229				229	
uckers		186					7, 656	2
unfish	12	1	375	25			832	
urf fishes.							371	
wordfish							5, 932	9
autog							894	1
enpounder							191	
'himble-eyed mackerel'ilefish							4 005	
HERING							4,095	1
omand	The state of the s							
omcod'ripletail							218 13	

⁹ Less than 500 pounds or \$500.

Fisheries of the United States and Alaska, 1930—Continued CATCH: By SECTIONS—Continued

Species	Lal	kes	Missis River tribut	and	Ala	ska	Tota	al
o poutes	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quantity	Value
yish—continued								
una and tunalike fishes:					ľ		000	
AlbacoreBluefin							286 21, 921	1, 238
Bonito							5, 164	167
Skipjack or striped							20, 486 56, 654	790
BonitoSkipjack or stripedYellowfinHorse mackerel							422	3, 396
urbot							1	(9)
hite basshitebaithitebaithitebaithitebait	484	24	65	ō			549 275	29
hitefish	10, 172	1,599					10, 397	1, 612
hitefish, Menominee	372	25					372	25
Thitefish, Menominee Thite perch Thiting							1, 488 14, 003	135 179
							2,657	54
ALLOW DASS	10000	become and	. 8	1			7, 083	
allow perch	4 002	515	22 25	4			4,027	372 519
ellow perchellow pikeellowtail	-, 002						4, 863	217
fiscellaneous fish			73				217	10
Total	89, 612	5, 875	53, 466	3, 310	609, 305	12, 178	2, 836, 894	75, 155
SHELLFISH, ETC.							0.47	100
balonelams;							647	130
Cockle							59	18
Piemo							9, 250 22	2, 472 10
Razor					853	48	2,074	228
Pismo Razor Soft							14, 492	813
SurfMixed							461	54
onchs							55	3
rabs:		1			105	18	74 169	1 750
King					190	10	74, 162 6, 184	1, 752
Hard							1	(0)
Stone					•••		8, 860 308	789
Stone	51	3	8	1			236	27 22
obsters:		ŀ		ĺ				0 505
Common							13, 916 1, 682	3, 587 290
Aussels, sea							306	16
Aussels, sea Aussel shells Octopus	5, 285	160	54, 205	932			59, 490 167	1,092
)vetore·					1			11
Eastern, market, public							35, 377	3, 460
Eastern, market, private							50, 955 29, 370	8, 163 3, 108
Eastern, seed, private							8, 722	1, 236
Eastern, seed, public							316	259
Periwinkle							228 330	83
Callods:	i							
Bay							4, 217 2, 450	760 450
Seahrimp			147	15	932	42	92, 327	3, 134 293
quid							18, 484	293
Perrapin			97	3			75 195	30
rogs			232				232	
rish moss							93 549	•
Sponges							549	93
andworms							58	61
Miscellaneous shellfish Pearls and slugs		12	16	101			16	113
		1 12		101				110
Total	5, 336	175	54, 705	1,075	1,980	108	436, 425	33, 557

⁹ Less than 500 pounds or \$500.

Fisheries of the United States and Alaska, 1930—Continued

CATCH: By SECTIONS-Continued

[Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

Species	Lakes		Mississippi River and tributaries		Alaska		Total	
b pecies	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quantity	Value
WHALE PRODUCTS 10 Oil, sperm Oil, whale. Whale meal and scrap. Other whale products.					909 6, 125 2, 340 43		909 9, 969 2, 340 43	46 586 51
Total					9, 417	470	13, 261	68
Grand total	94, 948	6, 050	108, 171	4, 385	620, 702	12, 756	3, 286, 580	109, 344

CATCH: BY STATES

State	Marine and		Mississip and trib		Lak	es 11	Tota	al
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Alabama		315	1, 921	42			9, 034	357
Arkansas			24, 964	744			24, 964	744
California	696, 891	12, 473					696, 891	12, 473
Connecticut		4, 519		 -			88, 012	4, 519
Delaware		653					51, 081	653
Florida	117, 548	4, 529			2,867	117	120, 415	4, 646
Georgia		536					34, 873	536
Illinois			21,713	996	1,065	97	22,778	1, 093
Indiana			6, 255	268	1, 160	81	7, 415	349
Iowa			7, 924	350			7,924	350
Kansas			344	24			344	24
Kentucky			3, 920	185			3, 920	185
Louisiana	49, 886	1.960	11,850				61, 736	2, 563
Maine		4, 330					143, 823	4, 330
Maryland		3, 985					71, 098	3, 985
Massachusetts		16, 289					442, 474	16, 289
Michigan	112, 11 1	10, 200	32	1	35, 579	2, 963	35, 611	2, 964
Minnesota			5, 056	211	11. 364	388	16, 420	599
Mississippi	15 736	740	3, 855	203	11,001		19, 591	943
Missouri	10, 100		1, 429	102			1, 429	102
Nebraska			135				135	15
New Hampshire	1,069	69					1,069	69
New Jersey	97, 276	7, 475					97, 276	7, 475
New York	45, 495	4, 934			1,701	150	47, 196	5, 084
North Carolina	168, 938	1.836			1, 701	190	168, 938	1, 836
Ohio		1, 550	1, 263	50	24, 115	1, 252	25, 378	1, 302
Oklahoma			318	31	24, 115	1, 202	318	31
Oregon		0.056	318	21				2, 256
Pennsylvania	26, 459	2, 256		(19)			26, 459	
Rhode Island		2, 287		(12)	3, 419	279	3, 436	282 2, 287
					• • • • • • • • • • • • • • • • • • • •		25, 972	
South Carolina	5, 106	253					5, 106	253
Tennessee			321				321	. 8
			9, 176				9, 176	255
Texas		777	1,030	34			16, 723	811
Virginia		7, 487					245, 294	7, 487
Washington		8, 335					110, 038	8, 335
West Virginia			45	7			45	1 222
Wisconsin			6, 620	256	16, 545	840	23, 165	1,096
Alaska	620, 702	12, 756					620, 702	12,756
Total	3, 080, 594	98, 797	108, 171	4, 385	97, 815	6, 167	3, 286, 580	109, 349
	-							

¹⁰ The weight of whales caught was not determined; therefore, the weight of the manufactured product

is shown.

11 Includes Lake Ontario, Lake Erie, Lake Huron, Lake Michigan, LakeSuperior, Rainy Lake, Namakan Lake, Lake of the Woods, Lake Okeechobee, and several mussel-bearing streams tributary to Lakes Huron and Michigan.

12 Less than \$500.

840, 733 228, 635

86, 158, 160

980, 899 1, 318, 164

Chesapeake

Yield of marine fisheries of the United States, 1930: By gear

Middle Atlantic

New England

C		-			151	
Gear	Pounds	Value	Pounds	Value	Pounds	Value
rse seines	83, 344, 140	\$1, 678, 805	58, 108, 240	\$528, 657	115, 599, 007	\$832, 726
ul seines	4, 334, 554	123, 566	6, 156, 131	175, 977	5, 734, 552	326, 897
il nets	27, 051, 446	800, 404	4, 457, 543	304, 193	3, 066, 406	380, 319
280	136, 994, 604	4, 295, 936	14, 170, 459	643, 599	50, 569, 342	887, 771
und nets	15, 296, 727	323, 109		1, 173, 658	71, 477, 764	2, 659, 770
oating traps	13, 313, 815	323, 109 390, 587	356, 444	20, 864	12, 211, 102	-, 000, 110
eirs	32, 615, 387	183, 934	31, 458, 940 356, 444 3, 974, 060 137, 008 3, 715, 253 126, 332 8, 707 92, 614	16, 243		
on nets	02, 020, 000		137, 008	18, 659	31, 800 1, 336, 855 3, 359, 848	3, 636 77, 044 262, 185
op nets	209, 122	20, 201 91, 929	3, 715, 253	110, 383	1, 336, 855	77, 044
n nets	6, 896, 327	91, 929	126, 332	110, 383 21, 465	3, 359, 848	262, 185
st nets			8, 707	1, 279	24,000	2, 520
an nets			92, 614	8, 693		
g nets	165, 213	22, 578				
rag nets			146, 170	21, 473		· · · · · · · · · · · ·
ish netscket nets	70, 200	20, 550	23, 680	4, 856		
ocket nets	1, 550	293				
ter trawls	324, 670, 060	10, 456, 829	14, 754, 753	496, 143	1, 882, 747	86, 319
aps	209, 825 15, 217, 939	7, 729 3, 444, 182	***********			
otsarpoons	15, 217, 939	3, 444, 182	3, 462, 348	492, 830 37, 887	291, 860	25, 445
ears	5, 241, 197 169, 124	875, 957 19, 332	3, 462, 348 234, 140 231, 117	20,887	18 800	1 944
rapes, crab	109, 124	19, 332	231, 117	29, 842	16, 600 7, 428, 389	1, 244 426, 452
rapes, craoredges	18, 044, 906	3, 219, 820	46, 234, 785	7, 308, 141	17, 816, 643	1, 361, 773
ongs	2, 436, 536	518, 414	3, 016, 720	843, 674	36, 782, 927	4, 002, 538
akas	1, 354, 593	330, 354	1, 550, 045	481, 311	866, 972	103, 687
akes orks	11, 588, 903	499, 068	605, 460	199, 079	(100, 512	200, 1101
068	2, 097, 266	163, 683	327, 419	40, 921		
eks	2,00.,200			20, 021	19, 432	7, 564
affs			4, 350	784		
y hand	27, 545	6, 219	4, 350 515, 263	83, 061	87, 780	24, 160
Total	701, 350, 979	27, 493, 479	193, 867, 981	13, 063, 672	316, 392, 924	11, 472, 050
Gear	South Atlantic and Gulf		Pacific		Total	
i .	Pounds	Value	Pounds	Value	Pounds	Value
				THE RESERVE AND ADDRESS.	to the second of	
TITSP SAIDAS	108 360 548	\$803 822	248 983 923	\$4 595 310	704 395 858 1	\$8 430 320
urse seines	198, 360, 548 26, 775, 958	\$803, 822 1,000,661	248, 983, 923 5, 750, 111	\$4, 595, 310 508, 288	704, 395, 858 48, 751, 306	\$8, 439, 320 2 135 389
aul seines	26, 775, 958 37, 867, 157	\$803, 822 1, 000, 661 1, 645, 386	5, 750, 111 31, 501, 924	\$4, 595, 310 508, 288 2, 710, 774	704, 395, 858 48, 751, 306 103, 944, 476	\$8, 439, 320 2, 135, 389 5, 841, 076
aul seinesill nets	26, 775, 958 37, 867, 157	\$803, 822 1, 000, 661 1, 645, 386 317, 993	5, 750, 111 31, 501, 924	\$4, 595, 310 508, 288 2, 710, 774 87, 378	704, 395, 858 48, 751, 306 103, 944, 476 6, 212, 934	2, 135, 389 5, 841, 076
aul seines ill nets rammel nets ines	26, 775, 958 37, 867, 157 5, 399, 327 24, 870, 957	1, 000, 661 1, 645, 386 317, 993 1, 252, 261	5, 750, 111 31, 501, 924 813, 607 156, 287, 360	\$4, 595, 310 508, 288 2, 710, 774 87, 378 8, 849, 242	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722	2, 135, 389 5, 841, 076 405, 374 15, 928, 808
anl seines Ill nets rammel nets ound nets	26, 775, 958 37, 867, 157 5, 399, 327	\$803, 822 1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194	248, 983, 923 5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315	\$4, 595, 310 508, 288 2, 710, 774 87, 378 8, 849, 242 1, 740, 620	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351
aul seines Ill nets rammel nets ines ound nets Losting traps	26, 775, 958 37, 867, 157 5, 399, 327 24, 870, 957 12, 660, 693	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315	1, 740, 620	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459
aul seines Ill nets rammel nets ines ound nets loating traps	26, 775, 958 37, 867, 157 5, 399, 327 24, 870, 957 12, 660, 693	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800	2, 579	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels	26, 775, 958 37, 867, 157 5, 399, 327 24, 870, 957 12, 660, 693	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315	1, 740, 620	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811
aul seines Ill nets rammel nets ines ound nets loating traps 'eirs 'heels op nets	26, 775, 958 37, 967, 157 5, 399, 357 24, 870, 957 12, 660, 693 5, 000 141, 000	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713	2, 579 34, 086	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296
aul seines III nets rammel nets ines ound nets loating traps 'eirs 'heels op nets vke nets	26, 775, 958 37, 967, 157 5, 399, 357 24, 870, 957 12, 660, 693 5, 000 141, 000	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713	2, 579 34, 086 58, 374	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911
aul seines III nets rammel nets ines ound nets loating traps 'eirs 'heels op nets vke nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713	2, 579 34, 086	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535
aul seines Ill nets Ill nets Innets Innes	26, 775, 958 37, 867, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 033	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713	2, 579 34, 086 58, 374	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589
aul seines ill nets rammel nets ines ound nets loating traps 'eirs 'heels op nets yke nets ip nets ast nets ap nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623	2, 579 34, 086 58, 374 113, 652	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693
aul seines ill nets rammel nets ines ound nets loating traps 'eirs 'heels op nets yke nets ip nets ast nets ap nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623	2, 579 34, 086 58, 374 113, 652	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 412, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ag nets rag nets ugh nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623	2, 579 34, 086 58, 374 113, 652	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671	2, 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644
aul seines ill nets rammel nets ines ound nets loating traps feirs rheels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501	2, 579 34, 086 58, 374 113, 652	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 417, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 092 33, 644 25, 406 25, 406 293
aul seines ill nets rammel nets ines ound nets loating traps feirs rheels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162	2. 135, 389 5, 841, 076 405, 374 15, 928, 804 61, 199, 351 411, 459 203, 001 35, 811 22, 96 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 293 380
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets eef nets ampara nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 329, 089, 383	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171 380 1, 769, 106	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 41, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 1, 550 329, 089, 383	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 293 380 1, 769, 106
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets eef nets ampara nets	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 41, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 1, 550 329, 089, 383	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 25, 406 840, 980
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ap nets ag nets rag nets ush nets ocket nets eef nets aranzella nets tter trawls	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 5, 162 329, 089, 383 18, 926, 040	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171 380 1, 769, 106 840, 980	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 41, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 1, 550 329, 089, 383	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov 6, 199, 351 411, 459 203, 001 35, 811 22, 96 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 293 380 1, 769, 106 840, 980 14, 028, 874
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets eef nets ampara nets aranzella nets tter trawls	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 1, 191, 501 329, 089, 383 18, 926, 040 2, 054, 893	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980 46,447	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 41, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 32, 022 33, 644 25, 406 293 31, 769, 180 14, 789, 180 14, 980 14, 928, 874 46, 447
aul seines ill nets rammel nets ines ound nets loating traps feirs rheels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets eef nets tter trawls eam trawls raps	26, 775, 958 37, 967, 911 12, 660, 693 21, 156, 996 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 5, 162 329, 089, 383 18, 926, 040	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 6, 830, 669	2. 135, 389 5, 841, 076 405, 374 15, 928, 804 61, 199, 351 411, 459 203, 051 35, 811 22, 96 325, 911 521, 535 10, 589 42, 022 33, 644 25, 406 293 380 1, 769, 1980 14, 028, 874 46, 447 716, 515
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ap nets ag nets rag nets ush nets ocket nets eef nets aranzella nets tter trawls eam trawls raps ots	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771	2,579 34,086 58,374 113,652 19,444 12,171 1,769,106 840,980 46,447 702,072	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 6, 830, 668, 573	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov. 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 604 25, 406 24, 406 46, 447 716, 515 4, 016, 368
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ap nets ang nets coket nets eef nets ampara nets aranzella nets tter trawls eam trawls raps ots arpoons	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 1, 191, 501 329, 089, 383 18, 926, 040 2, 054, 893	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980 46,447	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 41, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 6, 830, 669 19, 668, 573 9, 854, 589	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 342, 022 33, 644 25, 406 25, 406 840, 980 14, 028, 574 46, 447 716, 515 4, 016, 368 4, 1, 154, 654
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ap nets ush nets ocket nets ef nets ampara nets aranzella nets tter trawls eam trawls ear pears ots arpoons arpoons	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771	2,579 34,086 58,374 113,652 19,444 12,171 1,769,106 840,980 46,447 702,072	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 19, 668, 573 9, 854, 589 588, 857	2. 135, 389 5, 841, 076 405, 374 15, 928, 804 61, 199, 351 411, 459 203, 001 35, 811 22, 96 325, 911 521, 535 10, 589 42, 022 33, 644 25, 406 293 380 1, 769, 106 4840, 980 14, 028, 874 46, 447 716, 515 4, 016, 368 1, 154, 654 65, 382
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ap nets ush nets ocket nets eef nets aranzella nets tter trawls eam trawls raps ots araps ots	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771	2,579 34,086 58,374 113,652 19,444 12,171 1,769,106 840,980 46,447 702,072	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 19, 668, 573 9, 854, 589 588, 857 7, 428, 839	2. 135, 389 5, 841, 076 405, 374 15, 928, 808 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 604 25, 406 25, 406 840, 980 1, 769, 106 840, 980 14, 028, 874 46, 447 716, 515 4, 016, 368 1, 154, 654 65, 382 426, 452
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ap nets ush nets ocket nets eef nets aranzella nets tter trawls eam trawls raps ots araps ots	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771 4, 379, 252	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171 380 1, 769, 106 840, 980 46, 447 702, 072 240, 810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 19, 668, 573 9, 854, 589 588, 857 7, 428, 839	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov. 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 604 25, 406 25, 406 840, 980 1, 769, 106 840, 980 14, 028, 874 46, 447 716, 515 5, 382 426, 452 12, 519, 043 6, 684, 338
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ap nets ush nets ocket nets eef nets aranzella nets tter trawls eam trawls raps ots araps ots	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171 380 1, 769, 106 840, 980 46, 447 702, 072 240, 810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 19, 668, 573 9, 854, 589 588, 857 7, 428, 839	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov. 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 604 25, 406 25, 406 840, 980 1, 769, 106 840, 980 14, 028, 874 46, 447 716, 515 5, 382 426, 452 12, 519, 043 6, 684, 338
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ap nets ush nets ocket nets eef nets aranzella nets tter trawls eam trawls raps ots arpons ous earpes cots arpons ous earpes ear	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016 8, 815, 612 7, 209, 318 438, 645 97, 928	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 5, 162 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771 4, 379, 252	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171 380 1, 769, 106 840, 980 46, 447 702, 072 240, 810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 19, 668, 573 9, 854, 589 588, 857 7, 428, 839	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov. 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 604 25, 406 25, 406 840, 980 1, 769, 106 840, 980 14, 028, 874 46, 447 716, 515 5, 382 426, 452 12, 519, 043 6, 684, 338
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ap nets ush nets ocket nets eef nets ampara nets aranzella nets tter trawls eam trawls eam trawls raps ots arpoons pears rapes ots arpoons pears rapes ots arpoons pears rapes ots arpoons pears rapes ots arpoons pears rapes, crab redges orks ores	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016 8, 815, 612 7, 209, 318 438, 645 97, 928	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964 629, 309 717, 623 55, 573 7, 630	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 5, 162 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771 4, 379, 252	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980 46,447 702,072 240,810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 19, 668, 573 9, 854, 589 588, 857 7, 428, 839	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov. 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 604 25, 406 25, 406 840, 980 1, 769, 106 840, 980 14, 028, 874 46, 447 716, 515 5, 382 426, 452 12, 519, 043 6, 684, 338 6, 684, 338 6, 684, 338 6, 684, 338 6, 709, 925 705, 777 7204, 604
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets eef nets ampara nets arnzella nets tter trawls eam trawls raps ots arpoons pears rapes, crab redges ongs akes orks oes orks oes orks oes orks	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016 8, 815, 612 7, 209, 318 438, 645 97, 928	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 5, 162 329, 089, 383 18, 926, 040 2, 054, 893 6, 504, 771 4, 379, 252	2, 579 34, 086 58, 374 113, 652 19, 444 12, 171 380 1, 769, 106 840, 980 46, 447 702, 072 240, 810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 1, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550, 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 18, 926, 040 429, 275, 471 2, 054, 893 18, 928, 040 429, 275, 471 2, 054, 893 19, 668, 573 9, 854, 589 90, 911, 946 51, 536, 395 4, 210, 255 12, 292, 291 2, 424, 685 3, 111, 470	2. 135, 389 5, 841, 076 405, 374 15, 928, 804 61, 199, 351 411, 459 203, 091 35, 811 22, 961 521, 535 10, 589 8, 693 42, 092 33, 644 25, 406 293 380 1, 769, 108, 108, 108, 108, 108, 108, 108, 108
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ast nets and nets ush nets cocket nets eef nets aranzella nets tter trawls eam trawls eam trawls raps ots arpoons pears rapes, crab redges ones orks oes rabs licks	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016 8, 815, 612 7, 209, 318 438, 645 97, 928	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964 629, 309 717, 623 55, 573 7, 630	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 2, 054, 803 6, 504, 771 4, 379, 252	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980 46,447 702,072 240,810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 6, 830, 669 19, 668, 573 9, 854, 589 90, 911, 946 51, 536, 395 4, 210, 255 12, 292, 291 2, 424, 685 3, 111, 470	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov 6, 199, 351 411, 459 203, 001 35, 811 22, 96 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 25, 406 1, 769, 106 840, 980 1, 769, 106 841, 028, 874 46, 447 716, 515 4, 016, 368 1, 174, 654 65, 382 426, 452 12, 519, 043 1970, 577 204, 604 119, 863 7, 564
aul seines ill nets rammel nets ines ound nets loating traps feirs Theels op nets yke nets ip nets ast nets ag nets rag nets ush nets ocket nets eef nets ampara nets aranzella nets tter trawls eam trawls raps ots arpoons pears rapes, crab redges ongs akes orks oes rabs loks affs	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016 8, 815, 612 7, 209, 318 438, 645 97, 928 3, 111, 470	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964 629, 309 717, 623 55, 573 7, 630	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 2, 054, 803 6, 504, 771 4, 379, 252	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980 46,447 702,072 240,810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 6, 830, 669 19, 668, 573 9, 854, 589 90, 911, 946 51, 536, 395 4, 210, 255 12, 292, 291 2, 424, 685 3, 111, 470 19, 432 4, 350	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov. 6, 199, 351 411, 459 203, 001 35, 811 22, 296 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 840, 980 14, 028, 874 46, 447 716, 515 4, 016, 368 1, 154, 654 4, 654 1, 154, 654 4, 654 1, 154, 654 1, 156, 455 12, 519, 043 6, 684, 338 970, 925 705, 777 204, 604 1119, 863 7, 564
aul seines ill nets rammel nets ines ound nets loating traps feirs fheels op nets yke nets ip nets ast nets ast nets and nets ush nets cocket nets eef nets aranzella nets tter trawls eam trawls eam trawls raps ots arpoons pears rapes, crab redges ones orks oes rabs licks	26, 775, 958 37, 967, 157 5, 399, 327 24, 870, 957 12, 660, 693 5, 000 141, 000 1, 156, 996 517, 829 119, 083 87, 967, 911 116, 073 696, 426 172, 016 8, 815, 612 7, 209, 318 438, 645 97, 928 3, 111, 470	1, 000, 661 1, 645, 386 317, 993 1, 252, 261 302, 194 250 1, 725 59, 917 32, 303 6, 789 2, 989, 583 6, 714 53, 911 14, 964 629, 309 717, 623 55, 573 7, 630	5, 750, 111 31, 501, 924 813, 607 156, 287, 360 21, 047, 315 437, 800 280, 713 471, 750 2, 628, 623 1, 296, 247 191, 501 2, 054, 803 6, 504, 771 4, 379, 252	2,579 34,086 58,374 113,652 19,444 12,171 380 1,769,106 840,980 46,447 702,072 240,810	48, 751, 306 103, 944, 476 6, 212, 934 382, 892, 722 151, 941, 439 13, 670, 259 37, 032, 247 421, 713 168, 808 6, 889, 976 13, 528, 959 151, 790 92, 614 1, 461, 460 337, 671 93, 880 1, 550 5, 162 329, 089, 383 18, 926, 040 429, 275, 471 2, 054, 893 6, 830, 669 19, 668, 573 9, 854, 589 90, 911, 946 51, 536, 395 4, 210, 255 12, 292, 291 2, 424, 685 3, 111, 470	2. 135, 389 5, 841, 076 405, 374 15, 928, Nov 6, 199, 351 411, 459 203, 001 35, 811 22, 96 325, 911 521, 535 10, 589 8, 693 42, 022 33, 644 25, 406 25, 406 1, 769, 106 840, 980 1, 769, 106 841, 028, 874 46, 447 716, 515 4, 016, 368 1, 174, 654 65, 382 426, 452 12, 519, 043 1970, 577 204, 604 119, 863 7, 564

647, 316 58

833, 388, 643

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iving apparatus, abalone

or sponge.....

y hand ...

¹ Includes catch by rakes and shovels.

Industries related to the fisheries of the United States and Alaska, 1930 1

Item	New England	Middle Atlantic	Chesapeak	South Atlantic and Gulf	Pacif
Transporting:					
Persons engaged—			1		1
On yessels	363	101			1
On boats	1	117		_ 349	
Total	364	218	855	786	
				-	
Vessels—		!	1	1	1 1
Steam Net tonnage	3 150				-1 2
Motor	147	35	404	142	ે કો
Net tonnage	1, 835	525			2,4
Sail			_ 24	43	
Net tonnage			- 737	409	
Total vessels	150	35	428	185	
Total vessels Total net tonnage.	1, 985	525			2.9
10.01 200 00200				-, 02,	-
Boats	1	176		_ 221	
Wholesale and manufacturing:	450	444		507	
Establishments Persons engaged—	450	444	543	587	
Proprietors	364	531	812	726	a
Salaried employees.	1, 028	964			8
Wage earners:					
Average for season	9, 862	4, 254			10,5
Average for yearSalaries and wages paid	5, 163 \$8, 455, 460	3, 198 \$7, 956, 080	4, 708 \$2, 976, 346	5, 848 \$3, 464, 041	\$8, 636, 9
Manufactured products	\$26, 755, 350	\$15, 421, 325	\$10, 383, 691	\$12, 320, 405	\$45, 958, 8
Fishermen's manufactured products:	0 N	N 50	100		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Persons engaged	4, 147	592	531	1, 011 265, 165	(6)
Products	862, 965	460, 113	108, 140	205, 105	(8)
		·		1	<u> </u>
840					
Item		Lakes	Mississippi River and tributaries	Alaska	Total
		Lakes	River and	Alaska	Total
Transporting:		Lakes	River and	Alaska	Total
Transporting: Persons engaged—			River and tributaries		Total
Transporting: Persons engaged— On vessels		Lakes	River and	1, 926	Total
Transporting: Persons engaged— On vessels On boats		76	River and tributaries	1, 926 (²)	4, 0
Transporting: Persons engaged— On vessels			River and tributaries	1, 926	Total 4,0
Transporting: Persons engaged— On vessels On boats. Total		76	River and tributaries	1, 926 (²)	4, 0
Transporting: Persons engaged— On vessels. On boats. Total. Vessels— Steam		76 76	River and tributaries	1, 926 (2) 1, 926	4, 0
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam Net tonnage		76 76 6 193	River and tributaries	1, 926 (2) 1, 926 20 32, 948	4, 0
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam. Net tonnage. Motor.		76 76 6 193 16	River and tributaries	1, 926 (*) 1, 926 20 32, 948 466	4, 0 4 4, 5 33, 3
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage Motor. Net tonnage.		76 76 6 193	River and tributaries	1, 926 (2) 1, 926 20 32, 948	4, 0
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage. Motor.		76 6 193 16 249	River and tributaries	1, 926 (*) 1, 926 20 32, 948 466	4, 0 4 4, 5
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage Motor. Net tonnage. Sail. Net tonnage.		76 76 6 193 16 249	River and tributaries 27 27 21 13 214	1, 926 (1) 1, 926 20 32, 948 468 14, 927 1 1, 590	4, 0 4, 5 33, 3 1, 3 26, 6
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam. Net tonnage Motor. Net tonnage Sail. Net tonnage Total vessels Total vessels		76 6 193 16 249	27 27 21 21 13 214	1, 926 (2) 1, 926 20 32, 948 466 14, 927 1, 590	4, 0 4 4, 5 33, 3 1, 3 26, 6 2, 7
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage Motor. Net tonnage. Sail. Net tonnage.		76 76 6 193 16 249	River and tributaries 27 27 21 13 214	1, 926 (1) 1, 926 20 32, 948 468 14, 927 1 1, 590	4, 6 4, 5 33, 3 1, 3 26, 6 2, 7
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam Net tonnage Motor Net tonnage. Sall Net tonnage. Total vessels Total vessels Total net tonnage		76 6 193 16 249	27 27 21 21 13 214	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 487 49, 465	4, 0 4, 5 33, 3 26, 6 2, 7 1, 4 62, 7
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage. Motor. Net tonnage. Sail. Total vessels Total vessels Total net tonnage. Boats. Wholesale and manufacturing:		76 6 193 16 249 22 442	27 27 214 13 214	1, 926 (2) 1, 926 20 32, 948 41, 927 1, 590 487 49, 465 3 965	4, 5 4, 5 33, 3 1, 3 20, 6 2, 7 1, 4 62, 7
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam Net tonnage. Motor. Net tonnage. Sail Net tonnage. Total vessels Total vessels Total net tonnage. Boats. Wholesale and manufacturing: Establishments.		76 6 193 16 249	27 27 21 21 13 214	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 487 49, 465	4, 6 4, 4 33, 3 26, 6 2, 7 1, 4 62, 7
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam Net tonnage Motor Net tonnage Sail Net tonnage Total vessels Total net tonnage Boats. Wholesale and manufacturing: Establishments Persons engaged—		76 6 193 16 249 222 442	27 27 214 13 214	1, 926 (2) 1, 926 20 32, 948 41, 927 1, 590 487 49, 465 3 965	33, \$ 1, \$ 26, 6 2, 7 1, \$ 62, 7
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam Net tonnage Motor Net tonnage Sail Total vessels Total vessels Total ret tonnage Boats. Boats. Wholesale and manufacturing: Establishments Persons engaged— Proprietors.		76 6 193 16 249 22 442 228 306	27 27 27 214 214 214 214 214 2174 2174 2	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 49, 465 3 965 260	4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage. Motor. Net tonnage. Sail. Total vessels Total vessels Total net tonnage. Boats. Wholesale and manufacturing: Establishments. Persons engaged— Proprietors. Salaried employees. Wage earners:		76 6 193 16 249 22 442 228 306 375	27 27 214 13 214	1, 926 (2) 1, 926 20 32, 948 41, 927 1, 590 487 49, 465 3 965	33, \$ 1, \$ 26, 6 2, 7 1, \$ 62, 7
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam Net tonnage Motor Net tonnage Sail Total vessels Total vessels Total ret tonnage Boats Wholesale and manufacturing: Establishments Persons engaged— Proprietors Salaried employees Wage earners: Average for season		76 6 193 16 249 22 442 228 306 375 1,330	27 27 27 214 214 214 214 214 2174 2174 2	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 49, 465 3 965 260	4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam. Net tonnage. Motor. Net tonnage. Sail. Net tonnage. Total vessels. Total vessels. Total net tonnage. Boats. Wholesale and manufacturing: Establishments. Persons engaged— Proprietors. Salaried employees. Wage earners: Average for season Average for season Average for season		76 6 193 16 249 222 442 228 306 375 1, 330 1, 102	27 27 27 214 13 214 174	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 49, 465 3 965 260	4, 4 33, 1, 5 26, 6 2, 7 1, 8 2, 8 (°) (°) (°)
Transporting: Persons engaged— On vessels— On boats. Total Vessels— Steam. Net tonnage Motor Net tonnage. Sail Net tonnage. Total vessels Total net tonnage Boats. Wholesale and manufacturing: Establishments. Persons engaged— Proprietors. Salaried employees Wage earners: Average for year Salaries and wages paid		76 6 193 16 249 222 442 228 306 375 1, 330 1, 102	27 27 27 21 13 214 174 6, 383 4, (4) \$4, 639, 877	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 487 49, 465 3 965 260 15, 453 (*)	4, 4, 33, 1, 26, 2, 1, 62, 1, 8 (°) (°) (°) (°) (°) (°)
Transporting: Persons engaged— On vessels. On boats. Total Vessels— Steam Net tonnage. Motor. Net tonnage. Sail Net tonnage. Total vessels Total net tonnage. Boats. Wholesale and manufacturing: Establishments. Persons engaged— Proprietors. Salaried employees Wage earners: Average for season Average for year Salaries and wages paid. Manufactured products 3		76 6 193 16 249 22 442 228 306 375 1,330	27 27 27 21 3 214 13 214 6, 383 \$4, 639, 877	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 49, 465 3 965 260	4, 4, 33, 1, 26, 2, 1, 62, (°) (°) (°) (°) (°)
Transporting: Persons engaged— On vessels On boats. Total Vessels— Steam. Net tonnage Motor. Net tonnage. Sail. Net tonnage. Total vessels Total net tonnage. Boats Wholesale and manufacturing: Establishments. Persons engaged— Proprietors. Salaried employees Wage earners: Average for year Salaries and wages paid		76 6 193 16 249 222 442 228 306 375 1, 330 1, 102	27 27 27 21 13 214 174 6, 383 4, (4) \$4, 639, 877	1, 926 (*) 1, 926 20 32, 948 466 14, 927 1, 590 487 49, 465 3 965 260 15, 453 (*)	4, 4 33, 1, 5 26, 6 2, 7 1, 8 2, 8 (°) (°) (°)

Data for Mississippi River and tributaries are for 1922 with the exception of the number of establish ments and value of manufactured products of the pearl button industry which are for 1930.
 Included on vessels.
 Includes scows, houseboats, pile drivers, etc.
 Detailed statistics not available.
 These production figures are not comparable with those shown in previous reports since packaged fresh and forcen fishery products of the marine and lakes sections are now included.
 Data not available.

MANUFACTURED FISHERY PRODUCTS TRADE

Statistics of the products of the various manufactured fishery terprises were collected more completely for the year 1930 than for ny previous year. It will be noted that in addition to statistics on a production of cured fishery products, canned fishery products, nd by-products that the data presented herewith indicate the output f all packaged fishery products, including shucked oysters, crab eat, and the like.

This compilation includes the production throughout the marine nd lake areas of the United States and Alaska, but does not include ne manufactured products of the Mississippi River and tributaries.

roduction of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930 1

Item	Quantity	Value
ewives:		
Salted pounds	12, 623, 595	\$354, 987
Corneddo	1, 622, 600	31, 270
Spiceddo	157, 500	13, 800
Pickleddo	1, 786, 976	103, 175
Smokeddo	298, 231	13, 758
Canned standard cases	76, 732	232, 121
Roe, canneddodo	56, 874	286, 604
Dry scraptons	1,010	46, 254
Oilgallons.	33, 889	7, 173
rracuda, fresh filletspounds	225, 000	43, 500
ie pike:	,	,
Fresh filletsdo	618, 301	127, 490
Frozen filletsdo	145, 250	29, 050
Ralofish, smokeddodo	743, 952	312, 493
tterfish:	, 10, 002	012, 100
Pandressed	63, 986	7, 610
Smokeddo	650, 848	197, 655
brilla, fresh filletsdo	115, 000	20, 250
rp, smokeddodo	106, 500	31, 750
sco, chubs, and tullibee, smokeddodo	8, 272, 227	2, 323, 455
d:	0, 212, 221	2, 020, 400
Fresh sticksdo	280, 390	49, 486
Fresh fillets	5, 642, 605	843, 373
Frozen fillets do	1, 609, 928	215, 320
Salted bitsdo	21, 627	1, 808
Salted its Salted including boneless salted do	15, 617, 613	1, 044, 561
Salted, packageddo	2, 812, 077	² 412, 740
Stockfish do do		
Pickled do do	15, 600	2,090
Smoked filletsdo	120, 135 638, 022	5, 665
Silloged fillets		94, 981
Cakes, balls, etc., canned standard cases. Oil, cod and cod-liver gallons.	28, 224	259, 659
Oaker:	135, 884	102, 857
Pandressed pounds pounds	858, 705	83, 926
Fresh fillets do	28, 400	3, 473
resn miets	28, 400	3, 413
Fresh sticksdo	150 400	05 720
Fresh filletsdo	150, 490	25, 732
	340, 680	53, 507
Frozen filletsdo	17, 460	1, 971
Salteddo	508, 408	22, 933
Smoked filletsdodo	869, 635	122, 649
Salted do do	62 400	6 240
	63, 400	6, 340
Smokeddo	77, 682	28, 160
punders: Pandresseddodo	05 505	10.000
	85, 565	10, 032
Fresh filletsdo	6, 208, 203	1, 240, 236
Frozen filletsdo	359, 809	61, 712
oupers, fresh steaksdodo	107, 000	19, 220

The figures in the above table do not check in all instances with figures on certain manufactured prodts shown in the report for 1930. This is due to the fact that the above figures were obtained as the result
a more detailed survey, and several firms' production is included which is not shown in the previous
port. The figures herewith include the production of every primary firm in the marine and lakes secus of the United States and Alaska manufacturing fishery products or by-products as shown above
slich operated in 1930 to the knowledge of the bureau.
The item of 2,812,077 pounds of salted packaged cod, valued at \$412,740, is included in the total, hower, it should be explained that this item represents a further manufacture of salted cod which is shown

ewhere in the table.

Production of manufactured fishery products and by-products in the marine and t sections of the United States and Alaska, 1930—Continued

Item	Quantity	Valu
addock:		
Pandressedpounds_	38, 590	\$
Fresh sticksdo	183, 470	3
Fresh filletsdo		6, 98
Frozen filletsdodo	19, 511, 707	3, 01
Salteddo Finnan haddiedo	679, 499 5, 098, 811	3 47
Finnan haddie, cannedstandard cases_	1.002	1
Smoked filletspounds_	1, 035, 443	19
Smoked fillets pounds Flakes, canned standard cases	62, 067	61
ake:		1
Sticks, fresh and frozen pounds	214, 060	34 28- 56 173
Fresh fillets do	2, 195, 512 439, 102	28
Salted do	5, 006, 869	17
Smoked fillets do	55, 602	"
alibut:	00,002	,
Fresh filletsdo	46, 472	10
Frozen filletsdo	10, 859	- 1
Steaksdo	89, 938	1.
Salteddo	5, 220	
erring, sea: Salted, including Scotch-cureddodo	8, 722, 670	50
Roused do do	352, 500	1
Norwegian curedo	145, 375	1.
Spiced and Bismark do	76, 100	4
Kippereddo	198, 163	4:
Smoked—		
Bloatersdo	2, 850, 862	270
Boneless	1, 387, 750	149 12 26
Lengthwise do	127, 794	12
Miscellaneousdo	265, 088 730, 959	10
Canned, "sardines"standard cases	1, 399, 212	4, 45
Pomacetons_	3, 736	1, 10,
Mealdo	3, 736 13, 831	73
Oil gallons	3, 670, 664	908
Scales pounds	81, 153	1
erring, lake:		2.72
Salted	8, 082, 003	248 13
Spiced do Smoked, including smoked fillets do do	95, 000 637, 440	66
ake trout:	057, 440	00
Salteddo	201, 950	29
Smokeddo	472, 413	132
ackerel:	000000000000000000000000000000000000000	
Fresh and frozen filletsdo	178, 432	37
Salteddo	2, 410, 532	197
Salted, fillets and split do	2, 184, 364	247
Smoked do do standard cases	328, 571 132, 262	247 65 467
enhaden:	132, 202	407
Acid scrap	15, 725	395
Acid scrap tons_ Dry scrap do	15, 725 23, 235	395 1, 113
Mealdo	9, 752	514
Oilgallons	3, 311, 215	654
ullet:		
Salted and dry-salted pounds.	2, 071, 289	128
Roe, salteddolchard or sardines:	75, 184	19
Salteddodo	65 400	9
Canned standard cases.	65, 490	8, 741
Meal tons	2, 979, 333 25, 938	1, 414
Oilgallons	5, 803, 166	1, 826
llock:		
Fresh filletspounds	277, 714	36,
Frozen fillets do do	25, 773	3,
Salted do	3, 133, 905	171,
blefish:	761, 500	120,
Salteddo	176,000	12,
Pickled do do	176, 009 10, 800	12,
Smokeddo	333, 477	75,
lmon:	,	. 0,
Steaks do do	34, 917	5,
Drieddo	1, 593, 600	115,
Mild-cureddo	10, 157, 175	2, 065,
Salteddo	189, 546	24,
Pickleddo	863, 150	103,

³ An item of 300,000 pounds of kippered salmon valued at \$115,000, and an item of 6,844,175 pounds a smoked salmon, valued at \$2,665,881, are included in the total; however, it should be explained that the items represent a further manufacture of mild-cured salmon which is shown elsewhere in the table.

eduction of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930—Continued

. Item	Quantity	Value
mon—Continued. Smoked	7, 660, 931 6, 086, 479 2, 487 233, 941	³ \$2, 935, 42; 42, 828, 17; 136, 74; 53, 778
Eggs—For food, canned	1, 667 4, 345 55, 500	15, 683 103, 753 7, 823
d:	326, 250	79, 378
Smoked do Canned standard cases Roe, canned do rk oil gallons nish mackerel, dry-salted pounds	169, 784 12, 248 3, 339 4, 460 75, 421	4 38, 020 42, 190 69, 579 1, 190 5, 714
t: Pandresseddo Salted and dry-salteddo	34, 445 172, 000	4, 451 10, 220
leteague: Pandressed do Fresh fillets do Sun-dried do	802, 309 233, 935 27, 717	85, 014 37, 410 8, 316
rgeon: Smokeddo	2, 060, 699	1, 592, 277
Roe— Roe— Fresh do Salted	182 740 8, 024 260, 000	164 741 1, 004, 820 52, 000
na and tunalike fishes: do Salted bonito standard cases Canned tons Oil gallons	18, 134 2, 010, 640 8, 554 56, 748	1, 567 13, 055, 876 428, 556 14, 153
ales: pounds Pickled meat pounds Meal tons Bone pounds	37, 000 1, 170 5, 600	1, 850 51, 400 308
Oil— Whale gallons Sperm	1, 325, 229 128, 027	536, 9 04 48, 009
itefish: Salted	112, 523 661, 759 950 866	8, 221 221, 385 476 26, 804
iting, pandressed	88, 445 19, 812 37, 737	6, 023 3, 719 5, 280 38, 706
b meat: Packaged, fresh cooked	180, 224 5, 573, 474 1, 596 636	1, 783, 498 57, 810 24, 961
	103, 716 1, 064, 250	129, 488 287, 693
Headless, packaged— do Fresh do Cooked, fresh do Canned standard cases Sun-dried pounds Meal tons lone, steaks pounds	1, 123, 129 1, 485, 387 330, 645 826, 242 1, 740, 329 2, 386 583, 589	287, 282 266, 878 103, 844 5, 013, 337 368, 684 74, 287 248, 025
us, nard. Fresh-shuckedgallons	27, 931 28, 502	61, 615 164, 883
Whole. standard cases Chowder. do Mineed. do Cocktail juice and broth. do	28, 502 254, 449 4, 476 12, 945	1, 011, 499 29, 583 98, 793

An item of 16,050 pounds of smoked shad, valued at \$4,182, is included in the total; however, it should explained that this item represents a further manufacture of mild-cured shad which is included elseare in the table.

Production of manufactured fishery products and by-products in the marine and lake sections of the United States and Alaska, 1930-Continued

Item	Quantity	Value
lams, razor, canned:		
Wholestandard cases	5, 793	\$50
Chowderdo	640	1
Minceddo	67, 533	612
Juicedo	566	2
lams, soft:	100	1
Fresh shuckedgallons	189, 577	232
Canned—		
Wholestandard cases	95, 203	419
Chowderdo	71, 240	209
Juice and brothdo	16, 388	54
farine-shell products:		ì
Blanksgross	721, 346	336
Buttonsdo	4, 286, 617	3, 651
Novelties		776
fussels, fresh-water:		
Shells-		l
Blanks gross.	176, 740	36
Buttonsdo	1, 023, 618	369
Novelties	-,,	1
ysters:		l
Eastern—		l
Fresh-shuckedgallons	5, 435, 368	9, 937
Cannedstandard cases	403, 981	1,871
Japanese, fresh-shucked gallons	27, 950	97
Western, fresh-shuckeddodo	39, 405	311
Shell products—	02, 100	"
Poultry feedtons	279, 470	2, 316
Limedo	58, 113	194
Lime, "burned"do	9, 847	89
callops, bay, fresh-shucked gallons.	463, 863	821
callops, sea, fresh-shucked do do	272, 153	502
quid, driedpounds	1, 383, 660	55
urtle meat and soup, canned standard cases.	4,663	94
errapin meat and stew, canneddo	96	9
rclassified products:	90	,
	737, 796	89
Fillets and steaks 5pounds_ Miscellaneous packaged 6do		
Solted	172, 230	29
Salted—	10 050	
Cheeks and tonguesdo	12, 858	1
Other 1do	509, 503	40
Pickled and spiced 5dodo	163, 313	30
Smoked vdo	189, 900	46
Canned—	10 -0-	
Fish for cat and dog foodstandard cases	16, 587	50 1, 028
Other 18dodo	131, 492	1,028
Dry scraptons	893	39
Meal 11do	16, 660	1, 026
Oil—		1010
Tanner's gallons	40, 618	19
Miscellaneous 12 do	72, 445	21
Gluedo	524, 082	1, 240
Other by-products 13		344
otal fresh and frozen packaged productspounds	157, 378, 368	28, 996
otal cured productsdo	124, 496, 656	16, 837
otal canned productsdo	577, 782, 585	83, 015
otal by-products		19, 559
Grand total	B .	148, 408

⁵ Includes amberjack, bluefish, butterfish, grouper, lake trout, mullet, jack pike, red snapper, salmor sauger pike, shad, snook, Spanish mackerel, whitefish, and whiting fillets; amberjack, "lingcod," red snapper and rockfish steaks; and red snapper and whiting sticks.
⁶ Includes fresh alewife roe, pandressed bluefish; cisco caviar; packaged fish cakes; fresh-shucked conchs

and frozen packaged scallops.

Includes salted anchovies, barracuda, bluefish, cabrilla, ciscoes, black and white sea bass, shad and yellowtail; corned shad; and mild-cured shad.

Includes spiced carp; pickled lake herring, sea herring, lake trout, and Dolly Varden trout.
 Includes smoked flounders, pilchard, sablefish, and salmon fillets.
 Includes canned smoked eels, fish cakes, etc., haddock fillets, creamed fish, smoked sea herring, spiced and soused salmon, salmon roe, smoked sturgeon, shrimp gumbo soup, abalone, clam cakes, pickled mussels, squid, herring for bait, and miscellaneous fish eggs for food.

¹¹ Includes meal from mackerel, king crabs, clams, kelp, and mixed species.

¹² Includes oil from blackfish, mackerel, shark livers, and mixed species.
13 Includes agar-agar; alginates, crab scrap, fish flour, isinglass, menhaden for bait, poultry feed and limit from fresh-water mussel shells, sea herring skins, and shark fins, meat, skins, and teeth.

CANNED FISHERY PRODUCTS AND BY-PRODUCTS TRADE

The output of canned fishery products and by-products in the Jnited States and Alaska in 1931 was valued at \$79,513,846. Of he total, canned products comprised \$62,948,791 and by-products 16,565,055, a decrease of 24 per cent in the value of canned products and 30 per cent in the value of by-products when compared with the espective values of the same groups for the previous year.

Fishery products were canned at 412 establishments in the United states and Alaska during 1931. The combined output of these anneries amounted to 12,580,826 standard cases. The net weight

If the products canned amounted to 506,414,020 pounds.

Canned fishery products or by-products were prepared in 27 States and Alaska during 1931. Alaska ranked first in the value of these products, accounting for 38 per cent of the total; California ranked econd with 19 per cent of the total; and Washington ranked third with 9 per cent.

Canned fishery products and by-products of the United States and Alaska, 1931
SUMMARY OF PRODUCTION: BY COMMODITIES

Product	Number of plants	Standard cases	Pounds	Value
nned products:				
Salmon—				
United States	50	1, 336, 234	64, 139, 232	\$8, 986, 30
Alaska	116	5, 403, 811	259, 382, 928	29, 096, 86
Sardines—		N //	1900 100000 10000	
Maine	27	885, 408	22, 135, 200	2, 647, 18
California	22	1, 713, 407	82, 243, 536	4, 715, 08
Tuna and tunalike fishes	15	1, 216, 976	29, 207, 424	7, 279, 39
Alewives		34, 620	1, 661, 760	78, 97
Alewife roe	31	32, 740	1, 571, 520	132, 07
Shad	4	747	35, 856	2, 09
Shad roe	9	2, 100	100, 800	63, 06
Mackerel	8	102, 392	4, 914, 816	246, 84
Fish flakes	5	28, 486	1, 367, 328	514, 55
Fish cakes, balls, etc	7	103, 704	4, 977, 792	779, 41
Cat and dog food	4	52, 509	2, 520, 432	143, 34
Salmon roe and caviar	5	3, 360	161, 280	30, 48
Sturgeon caviar	8	4, 630	222, 240	609, 50
Whitefish roe and caviar	6	829	39, 792	23, 49
Salmon eggs (for bait)	10	5, 246	251, 808	149, 18
Missellaneous fish, roe, and caviar	10	9, 391	450, 768	77, 87
Oysters	43	306, 278	4, 594, 170	963, 52
Shrimp.	55	821, 275	13, 758, 649	3, 982, 24
Clam products	61	500, 040	1 11, 882, 625	2, 256, 90
Crabs.	5	646	31,008	12, 81
Turtle products	3	4, 058	194, 784	74, 94
Miscellaneous shellfish	6	11, 839	568, 272	82, 60
Total	2 412	12, 580, 826	506, 414, 020	62, 948, 79
·			Quality	Value
-products: Oyster-shell products		tons	306, 229	\$1,992,02
Fresh-water mussel-shell products			000, 220	4, 970, 24
Marine pearl-shell products				3, 552, 90
Scrap, meal, etc.		tons	84, 183	2, 986, 39
Marine-animal oils				1, 619, 93
Miscellaneous by-products				1, 443, 55
Total				16, 565, 05
Grand total				79, 513, 84

 ^{1 &}quot;Cut out" or "Drained" weights of can contents are included for whole and minced clams, and gross an contents for chowder, bouillon, broth, juice, and cocktail.
 2 Exclusive of duplication.

Canned fishery products and by-products of the United States and Alaska, 1931
Continued

VALUE OF PRODUCTION: BY STATES

			- 46
State	Canned products	By-prod- ucts 3	Total (
Maine Massachusetts and Rhode Island		\$219, 647	\$3,799,966
		1, 650, 629 992, 744	2, 785, 32 1 992, 74
Connecticut New York and New Jersey Pennsylvania	1, 345, 155	2, 826, 450 572, 905	4, 171, 600 572, 900
Delaware		96, 155	96, 15
Maryland	77, 831	695, 692	773, 52
Virginia	129, 551	939, 218	1, 068, 766
North Carolina		152, 443	174, 88
South Carolina		75, 604	369, 29
Georgia and Florida		441, 099	1, 378, 41
Alabama	270, 886	47, 456	318, 34
Mississippi		225, 200	1, 508, 63
Louisiana	1, 863, 897	683, 945	2, 547, 84
Texas, Utah, and Wisconsin	458, 756	157, 249	616,00
Missouri, Illinois, and Kentucky		75, 988 3, 583, 013	75, 98 3, 58 3, 01
Iowa		133, 035	6, 885, 12
Washington Oregon		15, 170	2, 873, 210
California		2, 290, 600	14, 819, 98
Alaska		690, 813	30, 102, 12
Total	62, 948, 791	16, 565, 055	79, 513, 84
	į l		

³ Including menhaden, fresh-water mussel-shell, and marine pearl-shell products.

Pack of canned salmon, Pacific Coast States and Alaska, 1931, standard cases

D. L.	Alaska									
Product	Sout	heast	Cen	tral	We	stern	Total			
Chinook or king: 1-pound tall	3, 155	Value \$46, 476 33, 216 55, 133	10, 722	117, 342	Cases 5, 719 2, 844 809	28, 185	16, 721	178, 743		
Total	14, 896	134, 825	27, 599	276, 690	9, 372	75, 872	51, 867	487, 387		
Blueback, red or sockeye: I-pound tall	116, 327 17, 972 13, 596	179, 720	19, 175		3, 855	38, 210	41, 002			
Total	147, 895	1, 471, 578	439, 153	4, 116, 919	1, 107, 230	9, 997, 591	1, 694, 278	15, 586, 088		
Silver or coho: I-pound tall I-pound flat ½-pound flat	2, 663	20, 239	239	1,670		556	157, 014 2, 902 9, 962	21, 909		
Total	88, 455	616, 541	81, 331	489, 537	92	556	169, 878	1, 106, 634		
Humpback or pink: 1-pound tall 1-pound flat ½-pound flat	2, 242	8, 849	2, 168	7, 805			2, 902, 926 4, 410 46, 524	9, 938, 964 16, 654 259, 880		
Total	2, 013, 442	7, 052, 803	940, 418	3, 162, 695			2, 953, 860	10, 215, 498		
Chum or keta: 1-pound tall 1-pound flat ½-pound flat			35	140	66, 555	202, 202	529, 579 35 4, 242	140		
Total	274, 248	891, 375	193, 053	607, 108	66, 555	202, 202	533, 856	1, 700, 685		
Steelhead: 1-pound tall	72	576					72	576		
Grand total	2, 539, 008	10, 167, 698	1, 681, 554	8, 652, 949	1, 183, 249	10, 276, 221	5, 403, 811	29, 096, 868		

Pack of canned salmon, Pacific Coast States and Alaska, 1931, standard cases—Con.

			United	States			Grand	l total,
Product	Washi	ington	Oregon a		То	tal		a and I States
hinook or king: 1-pound tall 1-pound oval 1-pound flat 1/2-pound oval 1/2-pound flat 1/2-pound flat 1/2-pound flat	Cases 27, 471 960 18, 817 87 65, 073	Value \$169, 084 19, 200 230, 015 2, 001 876, 776	Cases 16, 005 2, 086 87, 672 759 109, 047 1, 158	Value \$62, 358 42, 063 851, 347 17, 457 1, 421, 569 30, 762	Cases 43, 476 3, 046 106, 489 846 174, 120 1, 158	Value \$231, 442 61, 263 1, 081, 362 19, 458 2, 298, 345 30, 762	Cases 65, 414 3, 046 123, 210 846 187, 325 1, 158	Value \$383, 186 61, 263 1, 260, 105 19, 458 2, 455, 245 30, 762
Total	112, 408	1, 297, 076	216, 727	2, 425, 556	329, 135	3, 722, 632	381, 002	4, 210, 019
lueback, red or sockeye: 1-pound tall 1-pound flat ½-pound flat	1, 803 4, 629 87, 282	17, 128 60, 177 1, 346, 238	2, 245	35, 920	1, 803 4, 629 89, 527	17, 128 60, 177 1, 382, 158	45, 631	14, 422, 220 465, 058 2, 158, 273
Total	93, 714	1, 423, 543	2, 245	35, 920	95, 959	1, 459, 463	1, 790, 237	17, 045, 551
ilver or coho: 1-pound tall 1-pound flat 1pound flat 1	46, 915 21, 032 14, 839 67 2, 151	333, 069 159, 748 135, 593 1, 206 27, 963	2, 012 14, 801 7, 612 5, 072	12, 474 112, 488 66, 986 65, 936	48, 927 35, 833 22, 451 67 7, 223	345, 543 272, 236 202, 579 1, 206 93, 899	38, 735 32, 413 67	294, 145 308, 332 1, 206
Total	85, 004	657, 579	29, 497	257, 884	114, 501	915, 463	284, 379	2, 022, 097
Iumpback or pink: 1-pound tall 1-pound flat ½-pound flat	663, 698 2, 887 38, 943	10, 393 218, 081			663, 698 2, 887 38, 943	10, 393 218, 081	7, 297 85, 467	12, 195, 537 27, 047 477, 961
Total	705, 528	2, 485, 047			705, 528	2, 485, 047	3, 659, 388	12, 700, 545
'hum or keta: 1-pound tall 1-pound flat ½-pound flat		212, 549 995		34, 575	78, 615 199	247, 124 995	35	140
Total	67, 351	213, 544	11, 463	34, 575	78, 814	248, 119	612, 670	1, 948, 804
teelhead: 1-pound fall 1-pound flat 1-pound oval 1-pound flat 1-pound flat 1-pound flat 1-pound flat Total Grand total	1, 438 1, 766 1, 392 62 4, 738	10, 066 30, 375 15, 312 1, 116 57, 349	1, 479 3, 093 2, 782 130 75 7, 559	53, 200 30, 602 2, 730 1, 350 98, 235	4, 174 130 137	20, 419 83, 575 45, 914 2, 730 2, 466 155, 584	2, 917 4, 859 4, 174 130 137 12, 369	20, 419 83, 575 45, 914 2, 730 2, 466
	1-,, / *		1	1		1		and the same of th
and the second second								,

Note.—"Standard cases" represent the various sized cases converted to the equivalent of 1-pound cans, s to the case. Salmon were canned at 34 plants in Washington, 11 in Oregon, 5 in California, and 116 in laska.

Pack of canned sardines, 1931

	М	aine	2 11 (11)	Calif	ornia
Sardine (herring)	Cases	Value	Sardine (pilchard)	Cases	Value
Quarters, ¼-pound (100 cans): In olive oil	1, 771 789, 499 39, 154 4, 224 35, 250	\$10, 802 2, 386, 728 138, 044 15, 736 95, 877	1/2-pound oval (48 cans): In tomato sauce. In other sauces or oils. 1-pound oval (48 cans): In tomato sauce. In cottonseed oil. In mustard. In natural oil. 1/2-pound square (100 cans): In various sauces or oils. 5-ounce (100 cans): In natural oil. In other sauces or oils. 6-ounce (100 cans): In miscellaneous sauces or oils. 1-pound tall (48 cans): In natural oil. In other sauces or oils. Other sizes, various sauces or oils (100 cans): In miscellaneous sauces or oils.	22, 440 771 1, 330, 257 13, 756 111, 683 28, 441 9, 284 1, 656 125, 821 4, 024 29, 967 85, 758 12, 360 1, 460	\$53, 28 7, 47 3, 536, 20 38, 52 293, 96 72, 97 22, 22 13, 64 353, 63 11, 26 79, 77 200, 84 27, 49 3, 77
Total	869, 898	2, 647, 187	Total	1, 777, 678	4, 715, 089
Total (standard cases)	885, 408		Total (standard cases)	1, 713, 407	

Note.—"Standard cases" represent the various sized cases converted to the uniform basis of 14-pound cans, 100 to case, of sardines (herring), and 1-pound cans, 48 to the case, of sardines (pilchard). Sardines were canned at 27 plants in Maine and 22 in California.

Pack of canned tuna and tunalike fishes in California, 1931

21	Alb	acore	Yel	lowfin	Blu	efin	Stri	iped
Size	Cases	Value	Cases	Value	Cases	Value	Cases	Value
14-pound (48 cans) 14-pound (100 cans) 15-pound (48 cans) 1-pound (48 cans) Flakes (standard cases)	111, 900 2 14, 506	798, 206 193, 268	10, 227 427, 389 2 51, 773	76, 096 2, 703, 344 582, 206	9, 920 23, 145 2 3, 855	72, 176 121, 487 34, 894	9, 497 173, 043 14, 528	65, 989 863, 546 119, 431
Total Total (standard cases)	148, 059 157, 658	1, 095, 665	652, 590 651, 523		43, 243 46, 895			1, 193, 322
Size	"To	nno''	Во	onito	Yello	wtail	То	tal
Size	Cases	Value	Cases	Value	Cases	Value	Cases	Value
14-pound (48 cans) 14-pound (100 cans) 15-pound (48 cans) 15-pou	56, 259 3 8, 087	53, 129		\$610 96, 021 59, 288 74, 349 4, 665	354 408 1, 241 38		144, 775 100, 777 758, 304 97, 104 87, 107	694, 087 4, 600, 684 1, 013, 385
Total Total (standard cases)	64, 346 66, 687		41, 698 53, 392		2, 041 3, 297	13, 001	1, 188, 067 1, 216, 976	7, 279, 392

¹ Includes the pack in ½-pound jars, 96 to the case and 7-ounce jars, 24 to the case, which have been converted to the equivalent of ½-pound cans, 48 to the case.

2 Includes the pack in 4-pound cans, 12 to the case, which have been converted to the equivalent of 1-pound cans, 48 to the case.

3 Includes the pack in ½-pound cans, 50 the case, which have been converted to the equivalent of ½-pound cans, 48 to the case.

cans, 48 to the case.

Note.—"Standard cases" represent the various sized cases converted to the equivalent of forty-eight $\frac{1}{2}$ -pound cans to the case. Tuna and tunalike fishes were capned in 15 plants in California.

Pack of canned alewives and alewife roe, 1931 STANDARD CASES

		land	nd Virgi		North Carolina		Total	
Product	Cases	Value	Cases	Value	Cases	Value	Cases	Value
ewivesewife roe	17, 650 7, 896	\$41, 155 35, 416	16, 970 21, 270	\$37, 818 83, 264	3, 574	\$13, 393	34, 620 32, 740	\$78, 973 132, 073
Total	25, 546	76, 571	38, 240	121, 082	3, 574	13, 393	67, 360	211, 046

ACTUAL CASES

Product and size	Cases	Value
wives: 16-ounce (48 cans)	4, 206	\$39, 034 5, 423
15 and 19-ounce (24 cans)		34, 516
Total		
wife roe: 7½, 8, and 8½-ounce (48 cans)		30, 438 5, 851
16-ounce (24 cans) 17-ounce (24 cans) 19-ounce (24 cans)	41, 341	79, 279 12, 037
Other sizes (standard cases)	997	4, 468
Total		132, 073
Grand total	İ. 	211, 046

NOTE.—"Standard cases" represent the various sized cases converted to the equivalent of 1-pound cans, to the case. Alewives or alewife roe were canned at 8 plants in Maryland, 20 in Virginia, and 3 in North arolina.

Pack of canned shrimp, 1931

STANDARD CASES

State	Dry pack (in tins)		Wet pack (in tins)		Wet pack (in glass) ¹		Total	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value
uth Carolina and Ala- bama.	10, 946 16, 551	\$48, 677 85, 101	46, 315 41, 945	\$216, 317 222, 411			57, 261 58, 496	\$264, 994 307, 512
orida Ississippi uisiana	2, 203 60, 194 85, 054	11, 530 243, 140 429, 004	31, 755 141, 765 278, 193	165, 833 548, 813 1, 336, 583	14, 235	\$135, 569	48, 193 201, 959 363, 247	312, 932 791, 953 1, 765, 587
orgia and Louisiana	7, 305	35, 938	58, 564	264, 779	15, 820 10, 530	142, 408 96, 144	81, 689 10, 530	443, 125 96, 144
Total	182, 253	853, 390	598, 537	2, 754, 736	40, 585	374, 121	821, 375	3, 982, 247

The pack of shrimp in glass for Georgia and Louisiana has been grouped to avoid the disclosure of private terprise.

Pack of canned shrimp, 1931—Continued

ACTUAL CASES

Size	Cases	Value
In tins, dry: 4-ounce (48 cans). 5-ounce (48 cans). 8, 8½, and 8½ ounce (24 cans). Other sizes (standard cases) In tins, wet: 38¼, 4, and 5 ounce (48 cans). 53¼-ounce (48 cans). 8¼ to 9¾ ounce (24 cans). Other sizes (standard cases) In glass, wet: 5¼-ounce (24 cans). 5¾-ounce (24 cans). 5¾-ounce (24 cans). Other sizes (standard cases)	8. 251 153, 212 22, 145 4, 163 18, 752 571, 072 6, 341 7, 141 75, 802 7, 333 2, 315	\$32, 34 687, 96 110, 65 22, 44 91, 12 2, 583, 44 25, 41 51, 77 330, 28 21, 44 22, 41
Total		3, 982, 24

NOTE.—"S'andard cases" represent the various sized cases converted to the equivalent of 5-ounce cans 48 to the case, in the dry pack and 5%4-ounce cans, 48 to the case, in the wet pack. Shrimp were canned at plants in South Carolina, 5 in Georgia, 6 in Florida, 2 in Alabama, 15 in Mississippi, 19 in Louisiana, and 6 in Texas.

Pack of canned oysters, 1931

STANDARD CASES

State	Cases	Value	State	Cases	Value
North Carolina, Georgia, and Florida. South Carolina	16, 388 74, 186	\$50, 218 224, 248	Louisiana Washington	24, 415 7, 930	\$85, 27 40, 80
Alabama Mississippi	23, 551 159, 808	75, 332 487, 644	Total	306, 278	963, 52

ACTUAL CASES

Size	Cases	Value
4-ounce (48 cans)	37, 388	\$102, 23
5-ounce (48 cans)	219, 521	669, 51
6-ounce (48 cans)	2,717	13, 65 74, 89
8-ounce (24 cans)	22, 557	
10-ounce (24 cans)	35, 543	103, 23
Total		963, 52

Note.—"Standard cases" represent the various sized cases converted to the equivalent of 5-ounce cans 48 to the case. Oysters were canned at 1 plant in North Carolina, 7 in South Carolina, 2 in Georgia, 2 is Florida, 3 in Alahama, 16 in Mississippi, 8 in Louisiana, and 4 in Washington. The pack during the sprin period (January to May, 1931) amounted to 238,850 standard cases, valued at \$757,468 and that during the fall period (September to December, 1931) amounted to 67,428 standard cases, valued at \$206,057. The pack during the spring period of 1930 amounted to 333,174 standard cases, valued at \$1,605,647 and during the fall period of 1930, 63,000 standard cases, valued at \$231,215.

Pack of canned clams and clam products, 1931

Item and State	Cases	Value
azor clams (Washington, Oregon, and Alaska):		
Whole-		*07.000
No. 1, 5-ounce (48 cans)	3, 819	\$37, 808
No. 2, 10-ounce (24 cans)	140	1, 260
Other sizes (standard cases)	104	822
Minced—	61 054	407.499
½-pound flat, 4-ounce (48 cans)	61, 254 20, 712	427, 428 176, 058
No. 2, 10-ounce (24 cans)	1,056	9, 188
Other sizes (standard cases)	2, 307	21, 873
Juice—All sizes (standard cases)	364	1, 120
-		
Total	89, 756	675, 557
Total (standard cases)	77, 505	
ard clams (Rhode Island, New York, New Jersey, Georgia, Florida, Washington, and Alaska): 1 Whole—		
No. 1, 5-ounce (48 cans)	4,670	39, 833
1-pound 8-ounce (48 cans)	3, 133 7, 700	21, 751 48, 312
No. 2, 10-ounce (24 cans)	7,700	48, 312
No. 10, 52-ounce (6 cans)	4, 250	21, 250
Other sizes (standard cases)	763	3, 879
No. 1, 5-ounce (48 cans)	908	6, 801
No. 2, 10-ounce (24 cans)	1, 483	10, 383
Other sizes (standard cases).	5, 997	38, 787
Chowder-	., 551	30,107
	163, 857	604, 266
No. 1, 10-ounce (48 cans)	133	1,319
Other sizes (standard cases)	56, 291	234, 384
Juice—		
No. 1, 10-ounce (48 cans)	527	1,716
No. 10, 102-ounce (6 cans)	1, 697	5, 489
Other sizes (standard cases)	3, 223	17, 625
3 and 4 ounce (48 jars)	1.092	7,374
8-ounce (24 jars)	249	1, 387
Other sizes (standard cases)	216	2, 513
Broth and bouillon !—	-10	-1
3½ and 4 ounce (48 jars)	299	1, 302
10-ounce (48 jars)	1, 148	6, 411
Other sizes (standard cases)	3,082	16, 311
Total.		
Total (standard cases)	260, 718	1, 091, 093
Total (standard cases)	263, 377	
oft clams (Maine and Massachusetts): Whole—		
No. 1, 5-ounce (48 cans)	66, 333	240, 763
1-pound 8-ounce (48 cans)	7, 945	46, 734
Other sizes (standard cases)	10, 159	34, 473 20, 793
Chowder—	9, 501	20, 193
	17,082	53, 856
No. 1, 10-ounce (48 cans) No. 2, 20-ounce (24 cans)	1, 132	3, 923
Other sizes (standard cases)	27, 180	54, 898
Bouillon and juice—		
No. 2, 20-ounce (24 cans)	5, 788	10, 419
Other sizes (standard cases)	8, 951	24, 400
Motel		
Total	154, 071	490, 259
Total (standard cases)	159, 158	
Grand total (standard cases)	500, 040	2, 256, 909
	100,040	2, 200, 900

Includes a small amount of coquina broth packed in Florida.

Note.—"Standard cases" represent the various sized cases converted to the equivalent of 5-ounce cans. 8 No. 1 to the case, for whole and minced clams; and 48 No. 1, 10-ounce cans to the case, for other clam roducts. Razor clam products were canned at 12 plants in Washington, 5 in Oregon, and 6 in Alaska; ard clam products, at 1 plant in Rhode Island, 3 in New York, 1 in New Jersey, 1 in Georgia, 1 in Florida, in Washington, and 1 in Alaska; soft clam products, at 21 plants in Maine and 2 in Massachusetts; and equina clam products, at 2 plants in Florida.

Pack of miscellaneous canned fishery products in the United States and Alaska, 19

Item	Stand- ard cases	Value	Item	Stand- ard cases	Valu
Mackerel	102, 392 747 2, 100 28, 486 103, 704 52, 509 7, 425 3, 360	\$246, 848 2, 091 63, 060 514, 553 779, 411 143, 345 63, 974 30, 486	Salmon eggs (for bait) Sturgeon caviar ² Whitefish roe and caviar. Miscellaneous roe and caviar ³ Crabs. Turtle products. Miscellaneous shellfish ⁴ Total	5, 246 4, 630 829 1, 966 646 4, 058 11, 839 329, 937	\$149, 609, 23, 13, 12, 74, 82,

Includes canned carp, eels, fillets, finnan haddie, smoked salmon, anchovy paste, halibut and salmon fish pudding, haddock chowder, and bait herring and candlefish.
 Produced principally from imported sturgeon.

Note.-"Standard cases" represent the various sized cases converted to the equivalent of 1-pound can 48 to the case.

Production of miscellaneous by-products, 1931

Product		and Gulf	Pacific coa	st (includ- laska)	Tot	tal
- 104400	Quantity	Value	Quantity	Value	Quantity	Value
Dried scrap: Alewife	3, 178 516 1, 398 10, 928 2 1, 282 1, 466	62, 364 17, 030	7, 911 16, 319 2, 435 5, 078	\$272, 825 610, 462 108, 682 169, 505	3, 178 516 7, 911 1, 398 16, 319 2, 435 5, 078 10, 928 1, 282	\$19, 11 62, 36 17, 03 272, 82 34, 54 610, 46 108, 68 169, 50 646, 25 24, 98 177, 94 4, 75
Alewife gallons Cod and cod-liver do Herring (Alaska) do Herring (Maine) do Pichard do Salmon do Tuna do Miscellaneous Go Miscellaneous Gallons Go Miscellaneous Gallons Gallons	8, 470 6 433, 030 404, 630	2, 598 62, 600 12, 249 5, 705 6 1, 043, 290 34, 860 2, 028, 878	32, 304		16, 696 95, 809 2, 152, 706 91, 003 3, 916, 336 250, 871 15, 939 44, 501 433, 030 436, 934	2, 56 62, 66 376, 56 12, 24 807, 64 41, 15 3, 20 11, 52 1, 043, 22 400, 26

¹ Includes ground fish and miscellaneous dried scrap.

³ Includes canned fish roe from various species of ground fish and imported roe from fish other tha

Includes canned terrapin products, mussels, abalone, squid, and shrimp creole gumbo.

² A small quantity of shrimp meal produced in California is included with the production of the Atlantiand Gulf coasts.

³ Includes king crab meal, clam meal, mackerel meal, salmon egg and liver meal, fish flour, and misce laneous meal.

Includes herring pomace (Maine), herring waste (Maine), and miscellaneous green scrap.

§ Includes tanners oil, shark oil, mackerel oil, and miscellaneous oil.

§ A quantity of liquid glue produced by one firm in California is included with the production of the Atlar tic and Gulf coasts.

§ Includes herring skins and scales, fish scale ornaments, shark skins and fins, ground clam shells, againgt and kells product.

agar and kelp products.

NOTE.—The oils produced on the Pacific coast are reported in trade gallons (7½ pounds) and those produced on the Atlantic and Gulf coasts are reported in United States gallons (about 7.74 pounds).

Production of oyster-shell products, 1931

Tons	37-1				
1	Value	Tons	Value	Tons	Value
4, 123 34, 045 19, 941 7, 263 47, 204 7, 824	\$69, 270 44, 822 235, 024 175, 669 66, 193 252, 952 48, 381 224, 200 654, 027	1, 760 1, 453 15, 593 1 23, 702 525 2, 215 1, 075 1, 855 4, 421	\$7, 620 6, 166 32, 668 149, 370 2, 670 7, 869 925 1, 000 13, 198	8, 460 5, 576 49, 638 43, 643 7, 788 49, 419 8, 899 34, 656 98, 150	\$76, 890 50, 988 267, 692 325, 039 68, 863 260, 821 49, 306 225, 200 667, 225
253, 630	1, 770, 538	52, 599	221, 486	306, 229	1, 992, 024
	4, 123 34, 045 19, 941 7, 263 47, 204 7, 824 32, 801 93, 729	4, 123 44, 822 34, 045 235, 024 19, 941 175, 669 7, 263 66, 193 47, 204 252, 952 7, 824 48, 381 32, 801 224, 200 93, 729 654, 027	4, 123 44, 822 1, 453 34, 045 235, 024 15, 593 19, 941 175, 669 123, 702 7, 263 66, 193 525 47, 204 252, 952 2, 215 7, 824 48, 381 1, 075 32, 801 224, 200 1, 855 93, 729 654, 027 4, 421	4, 123 44, 822 1, 453 6, 166 34, 045 235, 024 15, 593 32, 668 19, 941 175, 669 1 23, 702 149, 370 7, 263 66, 193 525 2, 215 7, 869 47, 204 252, 952 2, 215 7, 869 7, 824 48, 381 1, 075 925 32, 801 224, 200 1, 855 1, 000 93, 729 654, 027 4, 421 13, 198	4, 123 44, 822 1, 453 6, 166 5, 576 34, 045 235, 024 15, 593 32, 668 49, 638 19, 941 175, 669 123, 702 149, 370 43, 643 7, 263 66, 193 525 2, 275 7, 869 49, 419 47, 204 252, 952 2, 215 7, 869 49, 419 7, 824 48, 381 1, 075 925 8, 899 32, 801 224, 200 1, 855 1, 000 34, 656 93, 729 654, 027 4, 421 13, 198 98, 150

¹ Of this amount, 11,207 tons, valued at \$85,884, were reported as "burned" lime.

Note.—Crushed oyster-shell products were prepared at 2 plants in Rhode Island, 5 in New Jersey, 5 in Pennsylvania, 6 in Maryland, 8 in Virginia, 3 in North Carolina, 4 in South Carolina, 3 in Florida, 2 in Alabama, 6 in Mississippi, 4 in Louisiana, 1 in Texas, and 3 in California.

Production of fresh-water mussel-shell products, 1931

	Iowa.		New	York	Other	States	Total	
Item	Quantity	Value	Quan- tity	Value	Quan- tity	Value	Quantity	Value
Pearl buttonsgross _ Crushed shell for poultry feedtons _ Limedo Other products 2	9, 871 9, 091	90, 661	(1)	\$1, 116, 894	1, 081, 893 305 1 267		4	93, 014
Total		3, 583, 013		1, 116, 894		270, 333		4, 970, 240

¹ A small production made in New York has been included with "Other States."
2 Includes stucco, colored shells, and "pearl novelties."

Production of marine pearl-shell products, 1931

Item		Massachu- d Connect-	Rhode Island		New York		New Jersey	
	Gross	Value	Gross	Value	Gross	Value	Gross	Value
Pearl buttons	1, 328, 513	\$964, 520 103, 845		\$18,067	98, 764	\$100, 295 37, 848	1, 310, 536	\$1, 017, 334 322, 329
Total		1, 068, 365		18, 067		138, 143		1, 339, 663

Item	Pennsylvar land, and		Cali	fornia	Total	
	Gross	Value	Gross	Value	Gross	Value
Pearl buttons Novelties 2	1, 741, 650	\$801, 515 148, 777		\$38, 373	4, 479, 463	\$2, 883, 664 669, 239
Total		950, 292		38, 373		3, 552, 903

Produced principally from imported shells.
Includes buckles, inlays for jewelry, knife handles, lamps, handles for manicure sets, ornaments, etc.

NOTE.—Marine pearl-shell products were manufactured at 1 plant in Maine, 2 in Massachusetts, 3 in Rhode Island, 6 in Connecticut, 10 in New York, 23 in New Jersey, 3 in Pennsylvania, 1 in Maryland, 3 in Florida, and 3 in California.

Fish utilized and products of the menhaden industry, 1931

					Produ	cts		
State	Menhaden utilized		rap and eal		ulated	Oi	1	Total
New Jersey, Delaware, South Carolina, and Georgia. Virginia. North Carolina Florida. Total	Number 69, 540, 000 155, 801, 000 45, 099, 000 82, 444, 000	Tons 2, 140 11, 373 2, 747 4, 833	Value \$83, 812 366, 107 92, 417 159, 205	7'ons 6, 487 865 1, 419	Value \$94, 181 14, 449 27, 763	Gallons 397, 028 1, 122, 974 283, 659 178, 129	Value \$63, 891 169, 471 40, 165 28, 781	Value \$241, 884 535, 578 147, 031 215, 749

1 211,730,400 pounds.

PACKAGED-FISH TRADE

In 1931, the production of fresh, frozen, and smoked packaged fish in the United States amounted to 65,550,700 pounds, valued at \$9,223,507. The most important species packaged was haddock, which alone accounted for 42,976,541 pounds valued at \$6,095,930.

Production of fresh, frozen, and smoked packaged fish in the United States, 1931

Species	Maine Massachusetts an Connecticut				d New York		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Pounds	Value	Pounds	Value	Pounds	Value	
Blue pike	350, 426 209, 025 (1) 426, 439 292, 295		6, 797, 265 1, 275, 566 1 929, 545 39, 480, 663 1, 944, 252 474, 973	\$834, 253 188, 939 190, 149 5, 570, 200 214, 129 85, 343	172, 400 2, 247, 346 511, 080 2, 879, 939 1, 425, 293	\$36, 537 330, 703 90, 670 427, 187 166, 936	
Mackerel Pollock Salmon Wolffish Yellow perch Miscellaneous 5			2 136, 063 445, 923 222, 033 199, 554 1, 161, 177	23, 869 43, 422 41, 242 23, 603 89, 154	(4)		
Total	1, 278, 185	198, 354	53, 067, 014	7, 304, 303	7, 236, 058	1, 052, 033	
	Pennsylvania Virginia and North Carolina Florida, Al			hama and			
Species	Pennsy.	lvania			Tex		
Species	Pounds	Value					
Blue pike.	Pounds 649, 393	Value \$124, 999	Pounds 49 170	Value \$5,593	Tex	Value	
Blue pike Croaker. Drum, red or redfish Flounders, including "sole" Groupers. Haddock Mullet	Pounds 649, 393	\$124, 999	Pounds 49, 170 37, 900 189, 500	Value \$5, 593 5, 393 28, 286	Pounds	as	
Blue pike. Croaker. Drum, red or redfish Flounders, including "sole". Groupers. Haddock Mullet. Sea bass. Snapper, red Spanish mackerel Squetzague or "sea trout".	Pounds 649, 393	\$124, 999	Pounds 49, 170 37, 900 189, 500 27, 030	Value \$5, 593 5, 393	Pounds 8, 200 154, 000	Value \$1,568	
Blue pike. Croaker. Drum, red or redfish Flounders, including "sole". Groupers. Haddock Mullet. Sea bass Snapper, red. Spanish mackerel.	Pounds 649, 393	\$124, 999	Pounds 49, 170 37, 900 189, 500 27, 030	\$5, 593 5, 393 28, 286 4, 157	8, 200 154, 000 19, 000 3149, 553 15, 500	\$1,568 22,200 2,800 3 28,822 3,140	

See footnotes at end of table.

² Of this quantity 18,185 tons, valued at \$586,413, were reported as dry scrap, and 2,908 tons, valued at \$115,128, as fish meal.

Note.—The menhaden factories were located as follows: 2 in New Jersey, 1 in Delaware, 8 in Virginia, 9 in North Carolina, 1 in South Carolina, 1 in Georgia, and 5 in Florida.

Production of fresh, frozen, and smoked packaged fish in the United States, 1931— Continued

Blue pike		Total		
Cod	Value	Pounds	Value	
Cusk Drum, red or redfish Plounders, including "sole"		1, 525, 715 9, 395, 037	\$297, 841 1, 220, 0 35	
Flounders, including "sole"		49, 170 1, 484, 591	5, 593 223, 789	
Haddock Hake		8, 200 1, 478, 525 154, 000	1, 568 286, 212 22, 200	
Mackerel (2) Mullet (2) Pollock (3) Salmon 80,000 Sea bass (3) Snapper, red (3) Spanish mackerel (3) Squeteague or "sea trout" Wolffish Yellow perch 826,945 156,718	4	42, 976, 541 3, 661, 840	6, 095, 930 419, 233	
Solution	\$20,000 (2)	616, 973 136, 063 19, 000	105, 343 23, 869 2, 800	
See bass. (3) Snapper, red (3) Spanish mackerel (3) Squeteague or "sea trout" (3) Yellow perch (4) S26, 945 156, 718	10, 150	445, 923 302, 033	43, 422 51, 392	
Squeteague or ''sea trout''	(3)	27, 030 149, 553	4, 157 28, 822	
Yellow perch		15, 500 621, 000 199, 554	3, 140 65, 208 23, 603	
Yellow pike		868, 505 24, 000	164, 979 5, 100	
Miscellaneous 5 35, 690 6, 255 148, 365 Total 1, 590, 557 304, 378 370, 365	23, 358	1, 391, 947	129, 271 6 9, 223, 507	

1 A small amount of flounders in Maine has been included with Massachusetts and Connecticut.
2 A small amount of mackerel in California has been included with Massachusetts and Connecticut.
3 A small amount of red snapper in Washington has been included with Florida, Alabama, and Texas.
4 A small amount of yellow perch in New York has been included with Florida, Alabama, and Texas.
5 Includes amberfish, bluefish, butterfish, cabio, frog legs, jewfish, lake herring, lake trout, ''lingcod,'' mangrove snapper, pinfish, pompano, sablefish, sauger pike, sheepshead, snook, spots, swordfish, tripletail, whitefish, whiting, and a small amount of mixed fish.
5 Of this amount 61,928,737 pounds, valued at \$8,761,731, were fillets; 1,142,521 pounds, valued at \$154,895, were dressed or pan dressed; 1,837,224 pounds, valued at \$204,386, were steks; 495,193 pounds, valued at \$77,271, were steaks; and 147,025 pounds, valued at \$25,224, were prepared by other methods. Of the total quantity of fillets prepared 44,437,899 pounds, valued at \$835,614,30, were fresh; 15,451,637 pounds, valued at \$2,071,684, were frozen; and 2,039,201 pounds, valued at \$325,617,884, were frozen; and pan dressed 596,229 pounds, valued at \$63,768, were fresh; 502,308 pounds, valued at \$84,529, were frozen; and 43,984 pounds, valued at \$86,598, were smoked. Of the steks, 680,680 pounds, valued at \$117,844, were fresh; and 1,150,544 pounds, valued at \$86,542, were frozen. Of the steks, 62,000 pounds, valued at \$117,844, were fresh; and 1,150,544 pounds, valued at \$86,561, were frozen. There were prepared by other methods 147,025 pounds, valued at \$25,224.

Note.—Fish products were packaged at 6 plants in Maine; 58 in Massachusetts; 35 in New York; 1 in Connecticut; 8 in Pennsylvania; 6 in Virginia; 1 in North Carolina; 7 in Florida; 1 in Alabama; 23 in Ohio; 1 in Illinois; 1 in Minnesota; 2 in Wisconsin; 3 in California; and 5 in Washington—a total of 158 plants.

FROZEN-FISH TRADE

FISH FROZEN

In 1931 the freezing plants in the United States and Alaska, reporting their activities to the Government, packed 112,257,416 pounds of frozen fishery products. These products at the time they were held in cold-storage plants were estimated to be valued at \$11,000,000. Compared with the pack in 1930, which was the largest frozen pack of fishery products on record, this is a decrease of 19 per cent in the volume of the pack. Over 60 per cent of the pack consisted of six groups of fishery products. Of first importance was the cod, haddock, haddock fillets, hake, and pollock group with 14 per cent of the total. Haddock fillets accounted for the bulk of the volume of this group. Of next importance were the salmons and halibut, each with 12 per cent of the total. Mackerel made up 11 per cent of the total; whiting, 7 per cent; and sea herring, 6 per cent. Considerable quantities of shellfish; weakfish, including southern "sea trout"; cisco or lake herring; butterfish; and squid, also were frozen. Frozen squid and sea herring are marketed primarily for bait, although quantities of each are used for human consumption.

Production of frozen fishery products, 1931 BY SPECIES AND MONTHS

	DI	PECIES.	AIIID IIIC	/141110			
			Month	ended the	15th of—		
Species	January	February	March	April	May	June	July
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	10, 672	14, 313	8, 013	2, 574	20, 965	11. 968	7, 098
Butterfish (all trade sizes)		8, 986	2, 419	3, 643	35, 965	496, 044	222, 197
Catfish	45, 135	18, 655	10, 861	3, 831	84, 679	66, 645	82, 324
Cisco (Lake Erie)	15, 620	10,000	10,001	0,001	929	362	7, 641
Cisco (lake herring), including	10,020				""	502	,, 011
bluefin, blackfin, and chub	88, 429	102, 893	22, 354	4, 393	20, 952	47, 616	48, 726
Cisco (tullibees, Canadian	00, 420	102, 000	22,004	4, 000	20, 802	**,010	20, 120
lakes)	45, 508	65, 356	42, 653	2, 097	22, 976	1,741	18, 448
Cod, haddock, hake, pollock	256, 763	45, 732	72, 695	98, 060	113, 987	91, 578	174, 754
Croaker.	6, 028	10, 570	42, 144	6, 508	528, 525	173, 570	155, 249
Flounders		7, 179	12, 717	11,656	198, 399	292, 991	98, 302
Haddock fillets	650, 238	455, 758	363, 271	1, 576, 376	1, 749, 624	1, 103, 885	1, 560, 296
Halibut (all trade sizes)	339, 931	213, 250	59.716	275, 795	2, 459, 219	2, 140, 703	2, 357, 612
Herring, sea (including ale-	000, 001	210, 200	00,110	210, 100	2, 100, 210	2, 110, 100	2,001,012
wives and bluebacks)	124, 435	43, 093	51, 715	168, 644	963, 268	467, 725	361,740
Lake trout	20, 762	7, 623	3, 561	93, 902	50, 356	23, 403	82, 583
Mackerel (except Spanish)	149, 693	162, 449	103, 755	99, 314	48, 507	776, 093	2, 507, 914
Pike, blue and sauger	28, 232	2, 639	5, 292	2,728	429, 975	130, 241	36, 088
Pike, yellow or wall-eyed	59, 546	57, 987	26, 895	57, 248	55, 640	23, 493	20, 480
Pike (including pickerel, jacks,	00,010	01, 501	20,000	01,210	00,010	20, 100	20, 100
and yellow jack)	51, 917	58, 091	46, 352	34, 234	54, 175	15, 499	20, 171
Sablefish (black cod)	18, 474	140, 032	11, 283	9,774	48, 667	29, 316	91, 762
Salmon, chinook	420	6, 782	4, 758	2, 170	122, 208	113, 365	389, 876
Salmon, silver	71, 945	99, 149	36, 763	19, 344	28, 232	46, 408	86, 312
Salmon, fall and pink	53, 304	48, 827	20, 858	16, 135	14, 517	41, 485	16, 010
Salmon, steelhead trout	57, 190	770	7, 365	9, 911	18, 691	18, 748	372, 381
Salmon, all other		59, 435	161, 985	137, 836	155, 848	544, 228	340, 957
Scup (porgies)	3, 052	1, 243	4, 238	297	3, 075	156, 834	48, 412
Shad and shad roe	86, 017	13, 395	25, 665	34, 150	84, 092	166, 630	72, 648
Shellfish	607, 824	176, 215	151, 366	133, 698	288, 642	516, 073	475, 357
Smelts, eulachon, etc	316, 396	380, 248	285, 680	42, 715	3, 007	9,078	5, 919
Squid	17, 791	6, 566	2, 767	95, 824	292, 205	890, 960	142, 323-
Sturgeon and spoonbill cat	68, 483	4,715	1, 572	9, 530	43, 656	112, 233	70, 484
Sturgeon and spoonbill cat Suckers	18, 905	6, 929	2, 0.2	440	22, 269	4, 943	11, 920
Weakfish (including southern	10, 500	0, 323		***	22, 200	1,010	11,020
"sea trout")	24, 205	75, 452	70, 745	32, 981	157, 565	215, 779	45, 153
Whitefish	83, 442	44, 251	56, 904	10, 862	79, 587	86, 838	208, 412
Whiting.	96, 484	249, 117	279, 717	330, 770	131, 683	2, 782, 800	1, 983, 218
Miscellaneous fish	768, 512	572, 420	493, 794	653, 797	1, 522, 864	1, 360, 626	1, 204, 694
Total	4, 306, 421	3, 160, 120	2, 489, 873	3, 980, 966	9, 854, 949	12, 959, 901	13, 327, 461
	i ·						
			Month	ended the	15th of—		
Species							

Species	Month ended the 15th of—							
e pecies	August	September	October	November	December	Total		
Bluefish (all trade sizes) Butterfish (all trade sizes) Catfish Cisco (Lake Erie) Cisco (lake herring), including bluefin, blackfin, and chub Cisco (tullibees, Canadian lakes). Cod, haddock, hake, pollock Croaker Flounders Haddock fillets Halibut (all trade sizes). Herring, sea (including alewises and bluebacks). Lake trout. Mackerel (except Spanish) Pike, blue and sauger Pike, yellow or wall-eyed. Pike (including pickerel, jacks, and yellow jack).	300, 713 45, 359 43, 521 117, 178 20, 609 410, 836 417, 140 44, 637 1, 656, 055 2, 480, 697 1, 050, 573 35, 033	Pounds 314, 737 197, 986 90, 523 40, 127 84, 072 18, 007 201, 670 247, 826 85, 453 1, 277, 577 1, 447, 465 825, 881 29, 585 5, 041, 176 19, 473 10, 155 3, 316	Pounds 401, 153 148, 744 101, 960 15, 910 195, 187 18, 905 481, 146 58, 183 156, 813 940, 073 972, 764 942, 705 140, 088 1, 291, 930 75, 950 108, 567 75, 568	Pounds 169, 072 519, 711 65, 812 45, 986 681, 730 35, 812 431, 669 47, 033 98, 174 665, 155 431, 831 1, 691, 225 580, 898 284, 915 283, 567 63, 709 78, 697	Pounds 27, 998 167, 963 58, 455 66, 429 897, 785 44, 533 452, 096 11, 065 94, 938 945, 489 200, 709 452, 184 227, 718 140, 972 356, 010 43, 040 35, 656	Pounds 1, 234, 568 2, 113, 301 674, 239 236, 525 2, 311, 315 336, 645 2, 830, 986 1, 703, 841 1, 154, 986 12, 943, 797 12, 979, 692 7, 143, 188 1, 295, 512 12, 352, 336 1, 429, 564 533, 767 499, 518		

Production of frozen fishery products, 1931—Continued BY SPECIES AND MONTHS—Continued

9	Month ended the 15th of—							
Species	August	September	October	November	December	Total		
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds		
Sablefish (black cod)	155, 108	179, 543	368, 641	473, 652	224, 031	1, 750, 283		
Salmon, chinook	388, 221	135, 865	33, 675	32, 748	2, 389	1, 232, 477		
Salmon, silver	895, 271	1, 534, 794	1, 481, 338	739, 064	70, 311	5, 108, 931		
Salmon, fall and pink	387, 609	159, 511	82, 997	1, 226, 023	82, 279	2, 149, 555		
Salmon, steelhead trout	630, 273	298, 125	55, 035	11, 517	5, 160	1, 485, 166		
Salmon, all other	575, 117	481, 704	237, 341	234, 280	47, 488	3, 034, 359		
Scup (porgies)	56, 698	59, 479	35, 730	25, 810	3, 219	398, 087		
Shad and shad roe	114, 756	41, 283	41, 638	65, 603	20, 677	766, 554		
Shellfish	219, 617	390, 320	607, 655	1, 160, 985	982, 730	5, 710, 482		
Smelts, eulachon, etc	3, 104	15, 334	40, 133	45, 866	184, 874	1, 332, 354		
Squid	91, 596	139, 471	40, 576	110, 496	44, 408	1, 874, 983		
Sturgeon and spoonbill cat	23, 484	19,719	29, 238	18, 365	8, 091	409, 570		
Suckers	1, 005	470	4, 471	12, 059	6, 251	89, 662		
Weakfish (including southern	•					,		
"sea trout")	318, 437	514, 038	438, 142	369, 263	78, 368	2, 340, 128		
Whitefish	59, 623	125, 895	59, 774	67, 098	194, 735	1, 077, 421		
Whiting	610, 948	318, 720	591, 971	393, 733	141, 983	7, 911, 144		
Miscellaneous fish	983, 014	1, 273, 676	1, 416, 281	1, 807, 838	1, 754, 964	13, 812, 480		
Total	14, 220, 073	15, 622, 976	11, 290, 282	12, 969, 396	8, 074, 998	112, 257, 416		

BY GEOGRAPHICAL SECTIONS AND SPECIES 1

[Expressed in thousands of pounds; that is, 000 omitted]

						_ at 2 120		
Species	New Eng- land	Middle At- lantic	South At- lantic	North Central, East	North Central, West	South Central	Pacific	Total
Bluefish (all trade sizes) Butterfish (all trade sizes)	30 390	1, 120 1, 638	12 49	70 34	2 2			1, 234 2, 113
Catfish	47	5	175	109	318	20		674
Cisco (Lake Erie)		237						237
Cisco (lake herring), includ-								
ing bluefin, blackfin, and						1	í l	
chub		382		1, 407	522			2, 311
Cisco (tullibees, Canadian		100		07	20	-	l i	
lakes)	50	106	20	97 76	63	1 3	164	337
Cod, haddock, hake, pollock_ Croaker	2, 226	316 731	897	76	44	3	104	2, 831 1, 704
Flounders	456	664	1	15			19	1, 704
Haddock fillets	11, 949	261	11	351	244	17	111	12, 944
Halibut (all trade sizes)	254	604	1 2	931	90	l i	11, 098	12, 980
Herring, sea (including ale-	-01	001			"	_	, 555	, 000
wives and bluebacks)	5, 358	321	4	373	-	2	1,085	7, 143
Lake trout		133	12	909	238	1	3	1, 296
Mackerel (except Spanish)		1, 267	1	124	26		335	12, 352
Pike, blue and sauger		992		383		5	50	1, 430
Pike, yellow or wall-eyed		76		174	284			534
Pike (including pickerel,		100		110	371			500
jacks, and yellow jack) Sablefish (black cod)		16 1		113 127				500 1, 750
Salmon, Chinook		15		38	7			1, 730
Salmon, chinook	34	235		90	49		4, 701	5, 109
Salmon, fall and pink	100	15		66				2, 150
Salmon, steelhead trout	2	37	i	3				1, 485
Salmon, all other		325	8	112	19			3, 034
Scup (porgies)		335		1			-,	398
Shad and shad roe	251	256	4	61	2	2	191	767
Shellfish	497	2, 392	849	838	272	9	853	5,710
Smelts, eulachon, etc	38	1, 143		59	4		88	1, 332
Squid	1,096	758		9			12	1,875
Sturgeon and spoonbill cat		194	10	22	58	98	28	410
Suckers		1		82		7		90
Weakfish (including south-		2, 085	255					2, 340
ern "sea trout") Whitefish	24	398	28	580	47			1,077
Whiting		791	12	10	1, 199			7, 911
Whiting Miscellaneous fish	1,917	2, 492	2, 144	2,798	708	1,509	2, 244	13, 812
Total	41,382	20, 342	4, 497	10, 138	4,671	1,675	29, 552	112, 257
	<u>'</u>	!						

¹ New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin: North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; Pacific—Washington, Oregon, California, and Alaska.

Production of frozen fishery products, 1931—Continued BY GEOGRAPHICAL SECTIONS AND MONTHS:

[Expressed in thousands of pounds; that is, 000 omitted]

Month ended the 15th of—	New Eng- land	Middle At- lantic	South At- lantic	North Central, East	North Central, West	South Central	Pacific	Total
January February March April May June July August September October November December	992 470 277 1, 687 2, 947 5, 658 6, 648 5, 727 8, 266 4, 199 2, 685 1, 826	1, 344 1, 061 1, 011 560 1, 695 2, 574 1, 239 1, 309 1, 820 2, 488 3, 376 1, 865	298 69 12 23 416 283 433 770 535 310 459 889	708 370 200 287 954 832 724 475 367 1,029 1,885 2,307	333 490 406 542 457 344 299 271 261 251 684 333	113 58 112 93 256 217 286 60 61 147 159	518 642 472 789 3, 130 3, 052 3, 699 5, 608 4, 313 2, 866 3, 721 742	4, 306 3, 160 2, 490 3, 981 9, 856 12, 960 13, 328 14, 220 15, 623 11, 290 12, 969 8, 075
Total	41, 382	20, 342	4, 497	10, 138	4,671	1,675	29, 552	112, 257

¹ New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin: North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklaboma, and Arkansas; Pacific—Washington, Oregon, California, and Alaska.

HOLDINGS

During 1931 the average monthly holdings of frozen fish and shell-fish were 12 per cent less than the average monthly holdings during 1930, and 5 per cent greater than the 5-year average of monthly holdings. Individual monthly holdings during the year were above normal for 7 months of the year when compared with the 5-year average, being from less than 1 to 27 per cent higher. Compared with the respective monthly holdings in 1930, they were from 8 to 15 per cent greater during 4 months of the year, and 8 to 27 per cent less during the remaining 8 months of the year. Monthly holdings in 1931 were largest in January and from September to December, inclusive, being, in some instances, over double those for certain months from February to August, inclusive. A maximum of 74,725,000 pounds was held on November 15, and a minimum of 28,095,000 pounds on April 15. Holdings during the year averaged 54,999,000 pounds monthly.

Holdings of frozen fishery products, by species and months, 1931

		V	fonth ended	the 15th of-	-	
Species	January	February	March	April	May	June
Bluefish (all trade sizes)	491, 776 275, 251 1, 795, 845 1, 294, 644 1, 914, 169 919, 201	Pounds 403, 792 366, 585 389, 900 245, 672 1, 361, 049 1, 218, 217 1, 716, 179 591, 923 599, 741	Pounds 240, 335 169, 185 203, 073 99, 781 1, 013, 578 812, 210 1, 290, 678 221, 291 469, 915	Pounds 134, 267 79, 589 111, 294 61, 335 620, 060 474, 664 1, 037, 708 126, 622 326, 060	Pounds 119, 865 55, 300 141, 012 45, 151 484, 270 534, 572 986, 832 609, 136 413, 981	Pounds 100, 588 521, 562 190, 344 41, 227 443, 304 688, 762 915, 664 755, 777 593, 120

Holdings of frozen fishery products, by species and months, 1931—Continued

		,				
Gi		1	Month ended	the 15th of		
Species	January	February	March	April	Мау	June
Herring, sea (including alewives and bluebacks)	Pounds 2, 796, 289	Pounds 2, 291, 366	Pounds 1, 767, 238 919, 804	Pounds 1, 306, 644	Pounds 1, 648, 639	Pounds 1, 373, 827
Lake trout	1, 649, 411 4, 781, 239	1, 358, 140 3, 333, 710	1, 834, 634	693, 912 574, 224	647, 414 489, 709	626, 000 1, 141, 368
Pike, blue and sauger Pike, yellow or wall-eyed Pike (including pickerel, jacks.	1, 349, 446 531, 545	936, 956 531, 066	388, 509 338, 815	244, 341 338, 214	644, 549 349, 569	801, 246 332, 096
and yellow jack)	373, 099	552, 150	484, 205	444, 077	339, 892	349, 267
Salmon, chinook	1, 659, 105 1, 443, 991	1, 108, 282	1, 077, 947 659, 155	421, 734	755, 714 444, 849	614, 151 482, 145
Salmon, silver. Salmon, fall and pink. Salmon, steelhead trout	3, 481, 184	1, 465, 153 1, 108, 282 2, 377, 032	1, 029, 002	850, 554 421, 734 556, 329	342, 932	343, 642
Salmon, fall and pink	1, 708, 354 509, 124	1, 271, 128 401, 632	697, 483 253, 826	527, 860 227, 291	455, 408 224, 569	435, 244 201, 870
Salmon, all other	2, 156, 548	1, 044, 138	636, 463	506, 318	512, 622	891, 977
Scup (porgies)	516, 332	426, 441	287, 220	47, 845	32, 862	182, 055
Shad and shad roe	642, 352 2, 740, 682	528, 886 2, 334, 991	296, 783 1, 610, 745	191, 992 998, 482	226, 076 945, 209	364, 329 1, 323, 069
Smelts, eulachon, etc.	804, 898	972, 478	1, 207, 839	488, 468	419, 154	400, 278
Shelifish Smelts, eulachon, etc. Squid Sturgeon and spoonbill cat	804, 898 2, 021, 826 869, 702	972, 478 1, 668, 707 786, 085	1, 207, 839 1, 229, 775	687, 483	419, 154 737, 914	400, 278 1, 582, 234 629, 570
Suckers	869, 702 121, 675	786, 085 101, 209	688, 084 88, 532	625, 000 68, 420	488, 104 63, 754	629, 570 68, 191
Weakfish (including southern			00,002			VASL ST. STATES CO.
"sea trout")	1, 976, 996	1, 321, 749	559, 304	78, 663	212, 630	399, 125
Whiting	1, 359, 770 6, 017, 992	1, 319, 975 4, 885, 675	1, 249, 596 3, 743, 028	753, 946 2, 777, 158	617, 918 2, 371, 354	608, 143 4, 684, 762
Whiting Miscellaneous fish	9, 964, 897	8, 514, 701	6, 360, 212	5, 169, 423	5, 726, 970	6, 336, 844
Total	71, 817, 205	56, 560, 040	38, 566, 891	28, 095, 417	31, 283, 394	39, 384, 344
		N	Ionth ended	the 15th of—	-	
Species		1	1	1	1	I
	July	August	September	October	November	December
1	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	78, 718	303, 419	788, 439	1, 124, 417	1, 136, 460	1, 017, 132
Butterfish (all trade sizes)	708, 736	988, 247	1, 161, 764	1, 255, 883	1, 655, 114	1, 607, 098
Catfish Cisco (Lake Erie)	273, 718 25, 514	298, 697 81, 791	336, 209 185, 157	398, 419 297, 683	482, 594 211, 412	291, 221
Cisco (lake herring), including		2507 (2007 - 2007 (2007)		1000		Not suppose provide
Cisco (Lake Erie)	609, 709	650, 558	705, 562	881, 118	1, 389, 160	1, 921, 049
lakes)	616, 432 952, 208	666, 183	596, 826	462, 268	462, 939	511, 840
lakes) Cod, haddock, hake, pollock Croaker Flounders	952, 208 894, 146	1, 313, 692 1, 221, 064	1, 248, 284 1, 371, 934	1, 342, 961 1, 304, 078	1, 311, 660 1, 206, 702	1, 380, 124 1, 057, 562
	465, 614	447, 398	454, 763	498, 092	539, 280	501, 249
Haddock fillets	5, 463, 072	6, 337, 573	6, 424, 296	6, 179, 916	5, 265, 232	5, 583, 849
Halibut (all trade sizes) Herring sea (including alewives	8, 499, 702	10, 866, 432	11, 974, 153	11, 817, 147	10, 156, 830	7, 993, 672
and bluebacks)	1, 245, 567	1, 240, 802	1, 456, 337	2, 001, 653	2, 781, 550 1, 260, 563	2, 980, 793
Lake trout Mackerel (except Spanish)	631, 035	630, 132 5, 290, 973	629, 690 10, 528, 130	697, 027 11, 470, 169	1, 260, 563 10, 560, 441	1, 282, 097 9, 790, 145
Pike, blue and sauger	507, 284	283, 739	149, 927	226, 268	391, 370	747, 865
Pike, yellow or wall-eyed.	292, 100	262, 136	246, 964	342, 124	380, 546	349, 601
Pike (including pickerel, jacks, and yellow jack)	346, 125	351, 235	311, 554	344, 779	484, 522	534, 210
Sablefish (black cod)	615, 724	637, 550	803, 506	1, 042, 544	1, 334, 908	1, 294, 809
Salmon, chinook	804, 128	1, 116, 958	1, 199, 827	1, 129, 410	1, 025, 342	870, 019 3, 564, 743
Salmon, fall and pink	387, 460 464, 216	1, 234, 827 813, 119	2, 688, 686 904, 334	3, 956, 130 736, 212	4, 318, 263 1, 728, 769	1, 449, 004
Salmon, steelhead trout	531, 865 1, 087, 461	1, 115, 299	1, 265, 955	1, 323, 483	1, 176, 501	1, 008, 853
Salmon, all other Scup (porgies)	1, 087, 461 228, 067	1, 542, 677 264, 900	1, 811, 472 328, 249	1, 932, 868 359, 272	2, 005, 764 368, 025	1, 744, 713 291, 122
Shad and shad roe	430, 255	483, 721	484, 539	536, 944	583, 123	547, 094
Shellfish	1, 450, 752	1, 215, 002	1, 231, 421	1, 395, 085	2, 228, 854	2, 753, 972
Smelts, eulachon, etc Squid	408, 975 1, 608, 563	397, 740 1, 520, 308	390, 354 1, 360, 238	415, 547 1, 244, 559	402, 581 1, 196, 147	671, 572 1, 037, 326
Sturgeon and spoonbill cat	652, 057	676, 894	1, 012, 564	851, 521	490, 315	322, 373
Suckers Weakfish (including southern	70, 062	54, 143	30, 844	39, 783	48, 737	44, 527
"sea trout")	400, 110	676, 957	1, 142, 356	1, 536, 698	1, 869, 978	1, 502, 712
Whitefish	816, 142	930, 607	979, 733	966, 335	1, 068, 433	1, 298, 401
Whiting	6, 384, 450 6, 846, 633	6, 579, 190 7, 023, 572	6, 176, 934 7, 701, 521	6, 288, 959 8, 742, 733	6, 085, 647 9, 117, 227	5, 599, 689 10, 233, 469
Total	48, 445, 446	57, 517, 535	68, 082, 522	73, 144, 085	74, 724, 989	72, 362, 398

Monthly holdings of frozen fishery products, 1931, by geographical sections 1

[Expressed in thousands of pounds; that is 000 omitted]

Month ended the 15th of—	New England	Middle Atlantic	South Atlantic	North Central, East	North Central, West	South Central	Pacific '	Total
January.	18, 797	16, 511	4, 072	10, 734	4, 514	1,074	16, 115	71, 817
February		13, 612	3, 015	9, 303	4, 613	941	10, 282	56, 560
March		9, 606	1, 550	6, 513	3, 777	725	6, 062	38, 567
April	7, 374	6, 183	536	4, 892	3, 458	689	4, 963	28, 095
May	7, 511	6, 736	915	5, 083	3, 314	700	7, 024	31, 283
June	10,855	8, 894	1,142	5, 309	3, 307	714	9, 163	39, 384
July	15, 189	9, 568	1,630	5, 409	3, 432	886	12, 331	48, 445
August		10, 983	2, 338	5, 365	3, 317	778	17, 121	57, 517
September		12, 838	2, 752	5, 023	3, 184	743	20, 257	68, 083
October		14, 274	2, 926	5, 825	3, 231	715	21, 434	73, 145
November	23, 207	15,790	3, 335	6, 855	3, 839	858	20, 841	74, 725
December	21, 543	16, 705	3, 917	8, 692	3, 921	959	16, 625	72, 362
Average	16, 271	11,808	2, 344	6, 584	3, 659	815	13, 518	54, 999

¹ New England includes the 6 States of that section; Middle Atlantic—New York, New Jersey, and Pennsylvania; South Atlantic—Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida; North Central, East—Ohio, Indiana, Illinois, Michigan, and Wisconsin; North Central, West—Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South Central—Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, and Arkansas; Pacific—Washington, Oregon, California, and Alaska. ² Includes a very small amount of fish held in Colorado in the Mountain section.

COLD-STORAGE HOLDINGS OF CURED FISH

Only cured herring and mild-cured salmon are reported held in cold-storage warehouses in the United States and Alaska. Other species are also held in cold storage, but no report is made on them to the Government as their volume reaches but small proportions. During 1931 the monthly holdings of cured herring varied between 11,093,000 pounds in July and 17,070,000 pounds in October. Monthly holdings of mild-cured salmon varied between 2,131,000 pounds in The average monthly hold-April and 6,952,000 pounds in October. ings of cured fish held in cold storage in 1931 were 12 per cent less than the average monthly holdings during the year 1930, and 24 per cent less than the 5-year average of monthly holdings. spective monthly holdings in 1931 compared with the respective monthly holdings in 1930 show decreases of from 8 to 24 per cent with the exception of December, which shows an increase of less than onehalf of 1 per cent. Compared with the respective normal monthly holdings there were decreases of from 15 to 35 per cent.

Holdings of cured fish, 1931, by species and months

Month ended the 15th of—	Cured herring	Mild-cured salmon	Total
-	Pounds	Pounds	Pounds
January	13, 725, 701	4, 566, 769	18, 292, 476
February	12, 920, 892	3, 818, 845	16, 739, 737
March	11, 763, 133	2, 810, 112	14, 573, 245
April	11, 379, 111	2, 130, 664	13, 509, 775
May	12, 295, 824	2, 277, 581	14, 573, 405
June	12, 020, 472	3, 494, 996	15, 515, 468
July	11, 093, 454	4, 083, 623	15, 177, 077
August	13, 020, 236	6, 333, 197	19, 353, 433
September	15, 387, 573	6, 926, 350	22, 313, 923
October	17, 070, 455	6, 951, 711	24, 022, 166
November	15, 660, 290	6, 470, 950	22, 131, 240
December	15, 525, 499	5, 732, 539	21, 258, 038

FOREIGN FISHERY TRADE

Foreign trade in fishery products in the United States in 1931 mounted to \$54,607,646 of which \$43,033,389 represents the value it these products imported for consumption, and \$11,574,257 the alue of exports of domestic fishery products. Compared with the revious year, there is a decrease of 20 per cent in the total trade, 5 per cent in the value of imports, and 33 per cent in the value of sports.

Imports consisted of 276,646,946 pounds of edible products, valued \$28,936,684 and nonedible products, valued at \$14,096,705. ishery exports consisted of 114,334,877 pounds of edible products, alued at \$11,380,015 and nonedible products valued at \$194,242.

Exports of domestic fishery products, 1931

Item	Quantity	Value
lible fishery products:		
Fish, fresh, frozen, or packed in ice— Salmon—————————————————pounds—	3, 989, 224	\$533, 696
Other fresh fishdo	5, 074, 591	421, 370
Totaldodo	9, 063, 815	955, 066
Fish, salted or dry cured— Coddodo	1 001 000	100 401
Coddo Haddock, hake, and pollockdodo	1, 021, 290 1, 045, 890	109, 491 62, 274
Herring do do	1, 251, 926	70, 943
Salmon do	3, 636, 426 788, 195	375, 129 73, 193
Totaldo	7,743,727	691, 030
	1, 143, 121	091, 030
Fish, pickled— Salmon————do——	943, 600	197, 866
Otherdo	2, 747, 600	84, 593
Totaldo	3, 691, 200	282, 459
Fish, canned—		
Salmon do	24, 221, 633	4, 039, 993 3, 445, 770
Mackerel do do	53, 246, 898 1, 550, 161	111, 218
Otherdo	782, 628	118, 673
Totaldo	79, 801, 320	7, 715, 654
Shellfish-		2 22 22
Canneddododo	3, 126, 378 9, 035, 467	565, 340 1, 033, 689
		N. Commission
Totaldo	12, 161, 845	1, 599, 029
Other fish productsdo	1, 872, 970	136, 777
Total edible productsdodo	114, 334, 877	11, 380, 015
onedible fishery products: Marine-animal oilsdo	1, 597, 895	81, 547
Buttons, pearl or shellgross	95, 683	27, 306
Sponges pounds	68, 036	85, 389
Total		112, 695
Total nonedible products		194, 242
Grand total		11, 574, 257

Imports of fishery products entered for consumption, 1931

Item	Pounds	Value
AVOIII	- Vallab	
EDIBLE FISHERY PRODUCTS		
Fish, fresh or frozen: Whole, beheaded, or eviscerated or both—		
Salmon Fresh-water fish, not elsewhere specified:	5, 601, 68 7	\$587, 420
Yellow pike	7, 462, 927 8, 176, 536	746, 590 823, 854
Tullibees	2, 396, 508	147, 321
Jacks or grass pike Lake trout	2, 408, 473 2, 310, 192	104, 896 236, 239
Yellow perch	726, 684 2, 319, 104	44, 861 265, 972
Fresh-water fish, not specially provided for	17, 514, 434	1, 173, 542 26, 746
Eels	356, 693 1, 236, 518	26, 746 63, 373
Halibut: Fresh	3, 844, 247	404, 816
Frozen	254, 011	35, 564
Mackerel	1, 825, 846 2, 127, 889	90, 421 207, 417
Sturgeon Fish, not specially provided for	3, 434, 942 2, 561, 405	740, 540 205, 819
Whether or not whole—		D0425 70 20 340 4475 1
Smelts Tuna fish	6, 640, 047 7, 857, 846	840, 349 578, 615
Sea herring— Fresh	13, 238, 367	52, 518
Frozen. Fillets, skinned, boned, sliced, or divided, not specially provided for	2, 918, 543	91, 451
WD 2	3, 008, 143	326, 578
Total	98, 221, 042	7, 794, 902
Fish, salted, dried, smoked, pickled or preserved: Dried and unsalted—		
Cod, haddock, hake, pollock, and cusk	2, 400, 218	229, 711
Other In oil or in oil and other substances—	1, 800, 895	286, 932
Sardines Anchovies	29, 417, 669 1, 888, 220	3, 931, 024 560, 410
Anchovies Antipasto Other	365, 185	107, 381 293, 751
Not in oil or in oil and other substances—	1, 648, 765	200, 101
In air-tight containers weighing with contents, not over 15 pounds each—		
Anchovies Salmon	2, 929, 333 137, 350	269, 134 12, 653
Herring and sardines	4, 902, 191	426, 971
Fish cakes, balls, and pudding	911, 219 1, 467, 195	70, 71 5 187, 1 40
Pickled or salted— Not in oil, etc., and not in air-tight containers weighing, with contents,	,	
15 pounds or less each: Salmon	242 202	22.054
Cod, haddock, hake, pollock, and cusk, neither skinned nor boned	640, 593	66, 35 6
(except that vertibral column may be removed)— Containing not more than 43 per cent moisture by weight	23, 350, 117	1, 367, 042
Containing more than 43 per cent moisture by weight	13, 467, 714	600, 450
Cod, haddock, hake, pollock, and cusk, skinned or boned Herring—	2, 128, 359	197, 5 79
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	41, 562, 791	2, 573, 487
In containers (not air-tight), weighing, with contents, not more than 15 pounds each	32, 552	2, 252
Mackerel—	32, 302	2, 202
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	6, 726, 970	312, 742
In containers (not air-tight) weighing, with contents, not more than 15 pounds each	245	88
Pickled or salted, not specially provided for—	240	
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	1, 909, 065	158, 463
than 15 pounds each	42, 259	4, 976
Smoked or kippered— Not in oil, etc., and not in air-tight containers weighing, with contents,	12, 200	. 4000
15 pounds or less each—		
Salmon Herring—	4, 278	1, 622
Whole or beheaded Eviscerated, split, skinned, boned, or divided	1, 189, 092	59, 350
Cod, haddock, hake, pollock, and cusk—	865, 919	81, 483
Whole, or beheaded, or eviscerated or both Filleted, skinned, boned, sliced, or divided Smoked or kippered, not specially provided for	850, 506 836, 008	78, 208 96, 140
Smoked or kippered, not specially provided for	143, 814	14, 09 7

Imports of fishery products entered for consumption, 1931—Continued

Item	Pounds	Value
EDIBLE FISHERY PRODUCTS—continued		
Fish, salted, dried, smoked, pickled or preserved—Continued. Fish paste and fish sauce	67, 288	\$21,978
Prepared or preserved, not specially provided for— In containers weighing, with contents, not more than 15 pounds each	378, 642	49, 703
In bulk or in containers weighing, with contents, more than 15 pounds each (net weight)	80, 437	9, 538
Total	142, 144, 889	12, 071, 376
	142, 144, 009	12,071,370
Caviar and other fish roe: Not boiled, etc.—		
Sturgeon. Fish roe, not specially provided for	352, 255 91, 313	456, 019 18, 124
Boiled, packed in air-tight containers.	81, 073	9, 172
Total	524, 641	483, 315
hellfish:	11 400 000	4 490 701
Crab meat, crab sauce, and crab paste	11, 426, 096	4, 430, 721
tight containers. Oysters, oyster juice, or either in combination with other substances, in	1, 056, 296	154, 088
air-tight containers Lobsters (including spiny lobsters and crawfish)—	124, 617	24, 130
Not canned	9, 983, 824	2, 171, 337
CannedClams not in air-tight containers	1, 702, 721 3, 144, 295	820, 144 64, 699
Shrimp and prawn	1, 077, 704 153, 427	151, 509 24, 382
Scallops. Oysters, not in air-tight containers.	2, 269, 509	133, 203
Shellfish, not specially provided for	4, 140, 719 126, 226	569, 360 9, 522
Crabs	126, 226 35, 906	2,692
Turtles	515, 034	31, 304
Total	35, 756, 374	8, 587, 091
Total edible fishery products.	276, 646, 946	28, 936, 684
NONEDIBLE FISHERY PRODUCTS Marine-animal oils:	Quantity	
Cod oilgallonsdodo	1, 794, 359 1, 737, 207 1, 375	610, 126
Eulachon oildo	1, 737, 207	1, 311, 831 688
Herring oildodododododododo	4, 243, 420 91, 563	1, 219, 419 23, 888
Seal oildo	79, 870	24, 741
Whale oil— Sperm, crudedodo	327, 115	110, 010
Sperm, crude do Sperm, refined or otherwise processed do Whale oil, not specially provided for do do	46, 107 10, 826, 250	17, 466 4, 815, 690
Total.	19, 147, 266	8, 133, 859
	19, 147, 200	
earls and imitation pearls: Pearls and parts, not strung or set		1, 281, 019
Imitation pearls— Half pearls and hollow or filled		17, 114
Solid pearls, not elsewhere specified: Valued at not more than one-fourth cent an inchinches_	1, 661, 234	1,891
Valued at more than one-fourth cent and not more than 1 cent an inches.	246, 470	1, 534
Tridescent solid nearls:		
Valued at not more than 10 cents per inchdo Valued at more than 10 cents per inchdo	41, 102 90	226 12
Total		1, 301, 796
shells and buttons of pearl or shell:		
Shells, unmanufactured— Green snail shellpounds	114, 521	13, 620
Mother-of-pearl do do	4, 438, 168	1, 298, 615
Mother-of-pearl do. Shells, not specially provided for do. Shells and mother-of-pearl, engraved, cut, ornamented, or manufactured. Shell pearl buttons—	2, 719, 310	71, 234 22, 205
Shell pearl buttons—	191 549	
Ocean or trochusgross_ Buttons (from Philippine Islands)do	131, 543 849, 009	56, 105 384, 743
Total		1, 846, 522
		,

Imports of fishery products entered for consumption, 1931—Continued

Item	Quantity	Value
NONEDIBLE FISHERY PRODUCTS—continued Sponges:		
Sheepswool pounds Yellow, grass, or velvet do do Other do do	208, 539 324, 728 38, 904	\$425, 384 154, 875 83, 263
Manufactures ofdo Total	2, 557 574, 728	1, 071
Agar-agar pounds. Ambergris do. Cod-liver oil cake and cod-liver oil cake meal do. Cuttlefish bone do. Goldfish, live number. Fish for other than human consumption pounds. Fish scrap and fish meal tons. Skins, fish, raw or salted pounds. Skins, seal, raw (not fur skins) do. Spermaceti wax do. Whalebone, unmanufactured do. Whalebone manufactured do.	38, 447 131, 904 2, 208, 166 24, 261 14	304, 466 1, 940 30, 195 57, 361 20, 306 56, 698 17, 509 1, 351, 842 13, 453 292, 813 2, 767 3, 554
Total		2, 149, 935
Total nonedible fishery products		14, 096, 705
Grand total		43, 033, 389

FISHERIES OF THE NEW ENGLAND STATES 4

The yield of fishery products in the New England States during 1930 amounted to 701,350,979 pounds, valued at \$27,493,479. This is an increase of 1 per cent in the volume of the catch, but a decrease of 5 per cent in its value as compared with the catch in the previous year. Of the total catch in 1930, 645,574,206 pounds, valued at \$19,232,205 were fish, and 55,776,773 pounds, valued at \$8,261,274 were shellfish and miscellaneous products. These fisheries gave employment to 17,077 fishermen which is a decrease of less than one-half of 1 per cent as compared with the number of fishermen in 1929. Of the total number of fishermen employed during 1930, 6,192 regular fishermen were engaged on vessels and 7,961 regular and 2,924 casual fishermen were employed in the boat and shore fisheries.

Fisheries of the New England States, 1930 SUMMARY OF CATCH

	M	I aine	New H	ampshire	Massacl	nusetts	
Product	Pounds	Value	Pounds	Value	Pounds	Value	
FishShellfish, etc	124, 465, 169 19, 358, 465				427, 521, 214 14, 952, 751	\$14, 030, 256 2, 258, 822	
Total	143, 823, 634	4, 329, 40	6 1, 069, 07	7 69, 144	442, 473, 965	16, 289, 078	
	Rhode	Island	Conne	ecticut	То	tal .	
Product	Pounds	Value	Pounds	Value	Pounds	Value	
Fish Shell!ish, etc	16, 935, 860 9, 036, 033	\$699, 748 1, 587, 522	75, 763, 473 12, 248, 937	\$2,644,709 1,873,872	645, 574, 206 55, 776, 773	\$19, 232, 205 8, 261, 274	
Total	25, 971, 893	2, 287, 270	88, 012, 410	4, 518, 581	701, 350, 979	27, 493, 479	

⁴ With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of the New England States, 1930—Continued

OPERATING UNITS: BY STATES

Item	Maine	New Hamp- shire	Massa- chusetts	Rhode Island	Connect-	Total
'ishermen: On vessels	Number 439	Number	Number 4, 445	Number 356	Number 952	Number 6, 192
On boats and shore— Regular Casual	3, 760 952	46 40	2,859 1,377	870 403	426 152	7, 961 2, 924
Total	5, 151	86	8, 681	1, 629	1, 530	17, 077
essels: Steam			22	9	33	9, 033
Net tonnage Motor Net tonnage	78 962		3, 291 395 15, 384	265 74 747	5, 477 102 1, 490	649 18, 583
Sail Net tonnage	1 19		1 6		3 25	50
Total vessels Total net tonnage	79 981		418 18, 681	83 1, 012	138 6, 992	718 27, 666
Boats:	2, 166	38	1,669	578	237	4, 688
Other	1,726 189	5	1, 477 979	673 160	218 62	4, 099 1, 375
Mackerel Length, yards Menhaden	31 7, 994	500 500	105 50, 098	4 560	9 1,620 2	60, 77
Length, yards Other	28		3	1	720	720 33
Length, yards Haul seines Length, yards	6, 724 78 10, 026	1 100	410 13 2, 225	320 27 3, 100	28 2, 710	7, 45 14 18, 16
Gill nets— Anchor	1, 415		2, 034		32	3, 48 868, 46
Square yards Drift Square yards	209, 750 74 11, 681		653, 340 9, 461 3, 286, 236	161 59, 640	5, 370 230 22, 770	9, 920 3, 380, 32
RunaroundSquare yardsStake	105		· • • • • • • • • • • • • • • • • • • •	24, 100		24, 10 10
Square yardsLines—	4, 725	160	E09	499	900	4, 72 5, 83
Hand	4, 375 4, 403 33, 050 1, 6 29 ; 100	160 160 3,600 180,000	583 849 54, 956 2, 730, 464	432 587 1, 193 56, 550	288 297 1, 726 84, 380	6, 29 94, 52 4, 680, 49
Pound nets Floating traps Weirs	25		136 19 6	62 62	8	209 11- 219
Fyke nets	59		52 61	40 17	107	250 181 164
Push netsPocket nets	17		53			5 1
Otter trawls	36 1, 117 10		9, 750 1	66 1,824 4	3, 274	568 15, 968 1
Pots— Crab Eel	1, 635 440		1, 735 1, 782	2, 015	160 808	3, 53 5, 04 332, 79
Lobster Periwinkle and cockle Harpoons, swordfish	205, 302	2, 570	69, 249 1, 012 107	39, 165 875 49	16, 505	332, 79 1, 88 22
Spears Dredges— Oyster	41		201	37 32	40 242	319
Yards at mouth Scallop	113		27 2, 877	49 532	241	31' 3, 52
Yards at mouth			2, 337 78 40	414 6 4		2, 90 8 4
Tongs	1, 598		183 552 538	523 156 13	144 30 64	850 733 2, 213
Hoes	16		610	io	6	64

Fisheries of the New England States, 1930-Continued

CATCH: BY STATES

	Mai	ine	New Han	pshire	Massac	husetts	Rhode	Island	Conne	ecticut	То	al
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH												
Albacore							34, 759	\$703			34, 759	\$703
Alewives		\$17, 369	200000000000			\$17,630	186, 050	1, 693	1,000	\$30	4, 106, 391	36, 722
Bluefish		19	(E.S. S.		210, 307	20, 752	243, 295	29, 516	251, 651	32, 670	705, 453	82, 957
Bonito		14, 891	100000000000000000000000000000000000000		82, 417 855, 113	6, 519 72, 167	57, 439 901, 120	4, 221 48, 717	116 36, 179	13 3, 773	139, 972 1, 904, 552	10, 753 139, 548
Carp.		14, 081			2, 976	12, 107	301, 120	45, 717	17, 995	1, 946	20, 971	2, 005
Catfish and bullheads		158			102, 125	2, 382			11, 000	1,010	117, 550	2, 540
Cod	13, 483, 964	356, 731		\$3, 945	77, 522, 224	2, 358, 348	1, 552, 952	64, 819	8, 915, 229	259, 169	101, 632, 169	3, 043, 012
Croaker					140, 005	5, 600			10, 780	434	150, 785	6, 034
Cunners Cusk	1 253 009	28, 555	- 000		18, 735	574	87, 600	2, 496			106, 335	3, 070
Dolphin		28, 555	7, 890	117	4, 713, 076	103, 549	-,-,		65, 241 138	960 8	6, 140, 190 138	133, 181
Eels	241, 975	22, 213			479, 065	44, 466	495, 152	47, 234	138, 729	18, 007	1, 354, 921	131, 920
Flounders	1, 949, 966	88, 889	15, 780	473	31, 334, 909	1, 262, 638	4, 700, 571	146, 972	11, 164, 206	364, 478	49, 165, 432	1, 863, 450
Frigate mackerel					384, 661	17, 921					384, 661	17, 921
Goosefish					200	3					200	3
Grayfish					84, 296	2, 882	х, 900	167			93, 196	3, 049
Haddock	12, 508, 138	371, 773 116, 335	394, 000 78, 900	15, 780 1, 174	202, 687, 789 19, 240, 569	6, 441, 249 412, 058	886, 328	30, 121	48, 072, 674	1, 672, 619 25, 212	264, 548, 929	8, 531, 542
Halibut		17, 708	300	1, 174	2, 880, 444	412, 038	62, 860	1, 724	1, 137, 702 182, 910	33, 472	32, 205, 428 3, 166, 998	556, 503 496, 863
Herring, sea	73, 938, 780	385, 712	60, 000	450	8, 687, 049	113, 467	214, 711		102, 810		82, 900, 540	502, 696
Hickory shad			and acous				4,019				4, 049	85
King whiting or "kingfish"						21					200	21
Launce				:	182, 926	4, 384					182, 926	4, 384
Mackerel	3, 012, 157	118, 038	100,000	4,000	45, 531, 276	1, 569, 658	1, 411, 571	51, 656	615, 626	24, 366	50, 700, 630	1, 767, 718
Minnows					6,000	1, 200	132, 160	1, 039	1, 575, 660 30, 035	15, 862 2, 722	1, 707, 820 36, 035	16, 901 8, 922
Mullet					0.00		8, 392	298	30,033	2, 122	8, 392	298
Mummichog	1							200	7, 134	713	7, 134	713
l'ike or pickerel				- -					275	41	275	41
Pollock	2, 045, 142				15, 014, 676	261, 472	174, 926	2, 495	545, 366	12, 519	17, 819, 560	305, 664
Rosefish	3, 845 88, 295	34			109, 857 55	2, 189			3, 528	25	117, 230	2, 248
Scup or porgy	00, 290	21, 200			792, 008	35, 798	1, 645, 590	76, 273	285, 452	5, 697	88, 350 2, 723, 050	27, 275 117, 768
Sea bass					141, 587	9, 377	35, 734	2, 161	14, 253	2, 103	191, 574	13, 641
Sea robin					100	1	193, 928	2, 360	41, 056	2, 103	235, 084	2, 568
Shad	88, 635	1, 801		l	54, 149	2,941		701	53, 942	10,095		15, 538

Skates	1	. 100000			51, 803	816	680, 350	6, 517	283, 833	2, 352	1, 015, 986	2, 231 9, 685	
Skipper or "billfish" Smelt	720, 708	126, 399	8,000	1,600	6, 250	2, 719	6, 068 50, 975	1, 248 7, 680	9, 900	2, 123	6, 068 795, 833	1, 248 140, 521	
Spearfish	94	11									94	11	
GraySpotted					1, 238	149	141, 145	15, 416	43, 252	3,822	185, 635	19, 387	٠.
Spotted	,				1, 246	221					1, 246	221	7
Striped bass	440	66			27, 385 7, 745	6, 099 1, 015	59, 817 1, 234	10, 870 197	1, 638	185	88, 840 9, 419	17, 154 1, 278	Þ
Suckers	36 859	2, 949			1, 120	1,013	7, 600	152	69, 020	5, 263	113, 479	8, 364	2
Swordfish	572, 519	93, 214			3, 728, 333	657, 593	609, 899	90, 109	224, 296	35, 668	5, 135, 047	876, 584	- 2
Tautog Tilefish					109, 710	6, 758	309, 635	15, 142	135, 545	10, 087	554, 890	31, 987	
Tomcod	51, 252	897					22, 600	302	1, 783, 456 200	97, 068	1, 783, 456 74, 052	97, 068 1, 259	Ę
Tomcod Tuna or "horse-mackerel"	140, 918	6, 873	2, 700	162	66, 066	5, 223	24, 180	1, 901	5, 400	324	239, 264	14, 483	f
White perch					450	45	49, 700	5, 038			50, 150	5, 083	č
Whiting Wolffish	40, 630 69, 470	228 883	23, 670	473	7, 902, 288	81, 719	1, 917, 287	26, 442	2, 500	10	9, 862, 705	108, 399	Ū,
Yellow perch	388	45	23, 670	4/3	2, 520, 991	51, 970			36, 856 700	501 105	2, 650, 987 1, 088	53, 827 150	- 5
											1,000	100	- 2
Total	124, 465, 169	1, 828, 711	888, 490	28, 781	427, 521, 214	14, 030, 256	16, 935, 860	699, 748	75, 763, 473	2, 644, 709	645, 574, 206	19, 232, 205	ä
SHELLFISH, ETC.													_
Cooks have	4 100 010								CINGCON POPULAGO	are werest	DE CHAPTOS FURNISHED	n 1000a assurences	7
Crabs, hard Lobsters	1, 123, 353 7, 750, 682	33, 780 2, 007, 343	180, 587	10 202	458, 298 2, 338, 234	86, 280	166, 562	5, 256	203, 528	4, 056	1, 951, 741	129, 372	
Shrimp	1, 100, 002	2, 007, 343	160, 061	40, 303	2, 338, 234 4, 800	625, 946 3, 600	1, 353, 107	313, 550	734, 712	230, 266	12, 357, 322 4, 800	3, 217, 468 3, 600	-
Squid	119, 140	1, 185			3, 830, 006	68, 922	1, 545, 902	41,876	10, 700	225	5, 505, 748	112, 208	F
Clams: Cockle	1.000	200										**************************************	-
Hard, public 1	4, 206	210			24, 570 1, 889, 704	4, 715 477, 010	1, 626, 427	317, 874	17, 428	0.704	28, 776	4, 925	Ċ
Hard, private					66,000	7, 149	222, 448	47, 505	17, 428	8, 584	3, 533, 559 288, 448	803, 468 54, 654	7
Razor		10-400000000000000000000000000000000000		9191	380, 266	20, 476					380, 266	20, 476	F
Soft, public ²	9, 648, 588	341, 612			3, 273, 652	275, 934	28, 440	6, 442		12, 989	13, 022, 410	636, 977	Þ
Soft, private 2 Surf or skimmer	276, 080	7, 364			38, 275	3, 750						7, 364	_
Mussels, sea					10, 800	2, 100					38, 275 10, 800	3, 750 2, 100	a
Oxyetora						2, 100	1-1 -0 -007				10, 000	2, 100	E
Market, public, spring 3 Market, public, fall 3 Market, private, spring 3 Market, private, spring 3					770	200	8, 944	2,650	5, 135	1, 745	14, 849	4, 595	2
Market, public, lali 3					222, 175	100, 411	9, 079 1, 531, 592	2, 670 339, 887	21, 741 3, 032, 230	3, 825 423, 439	30, 820 4, 785, 997	6, 495	-
Market, private, fall 3	1				211, 569	90, 039			2, 556, 605	389, 525	4, 785, 997	863, 737 872, 273	Ō

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* Statistics on nard crams used in this table are based on yields of in pounds of meats per ousnet in Massachusetts and Knode Island, and a pounds in Connecticut. In reports for previous years all hard clams in these States have been computed on the basis of a uniform yield of 10 pounds of meats to the bushel.

**Statistics on soft clams used in this table are based on yields of 17 pounds of meats per bushel in Maine, Massachusetts, and Rhode Island; and 15 pounds in Connecticut. In reports for previous years, all soft clams in these States have been computed on the basis of a uniform yield of 10 pounds of meats to the bushel.

**Statistics on market oysters used in this table are based on yields of 8.8 pounds of meats per bushel in Massachusetts, 8 pounds in Rhode Island, and 7.5 pounds in Connecticut. In reports for previous years, all market oysters have been computed on the basis of a uniform yield of 7 pounds of meats to the bushel.

¹ Statistics on hard clams used in this table are based on yields of 11 pounds of meats per bushel in Massachusetts and Rhode Island, and 8 pounds in Connecticut. In reports

Fisheries of the New England States, 1930 - Continued CATCH: By States-Continued

	Ma	ine	New Ham	Vew Hampshire		husetts	Rhode	Island	Conne	ecticut	Total	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued						Action (Section Code)			3.00	2000 3400		
Oysters—Continued. Seed, public, spring 4. Seed, public, fall 4. Seed, private, spring 4. Seed, private, fall 4. Periwinkles Scallops: Bay Sea		\$100, 201	1000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		31, 500 115, 808 17, 442 1, 435, 144 510, 738	\$2, 250 6, 886 3, 887 396, 565 77, 122	6, 023 361 298, 500 312, 210 94, 310	\$1,002 47 40,750 34,680 40,624	518, 805 805, 406 3, 709, 741 561, 176	\$72, 405 92, 308 556, 963 77, 542	524, 828 837, 267 4, 124, 049 561, 176 329, 652 1, 529, 454 947, 154	\$73, 407 94, 605 604, 599 77, 542 38, 567 437, 189 186, 323
Irish moss	100, 110	V100, 201	2 K 10 K 10 K	1 KK (10)	93, 000	5, 550			S (27.8)		93, 000	5, 580
Total	19, 358, 465	2, 500, 695	180, 587	\$40, 363	14, 952, 751	2, 258, 822	9, 036, 033	1, 587, 522	12, 248, 937	1, 873, 872	55, 776, 773	8, 261, 274
Grand total	143, 823, 634	4, 329, 406	1, 069, 077	69, 144	442, 473, 965	16, 289, 078	25, 971, 893	2, 287, 270	88, 012, 410	4, 518, 581	701, 350, 979	27, 493, 479

^{*} Statistics on seed oysters, public and private, used in this table are based on yields of 7 pounds of meats to the bushel, the same as in previous reports.

Fisheries of the New England States, 1930-Continued PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

Crabs, hard _number _ 3, 370, 058 \$33, 780 1, 374, 894 \$86, 280 499, 686 \$5, 256 610, 584 \$4, 056 5, 855, 223 \$129, 32											
Quantity Value Quantity	Dodust	Mai	ne			Rhode	Island	Conne	ecticut	То	al
Cockle_bushels	Product		Value		Value		Value		Value		Value
Cockle	rabs, hard_number	3, 370, 058	\$33, 780	1, 374, 894	\$86, 280	499, 686	\$5, 256	610, 584	\$4,056	5, 855, 223	\$129, 372
Razor	Cocklebushels Hard, public.do			1, 365 17, 791	4, 715 477, 010	147, 857	317, 874	2, 179	8, 584		4, 925 803, 468
Soft, private	Razordo			7,042	20, 476					7,042	
Mussels	Soft, private_do									16, 240	
spring_bushels_ 88 200 1, 118 2, 650 685 1, 745 1, 891 4, 891 4, 686 Market, public, fall bushels 1, 135 2, 670 2, 900 3, 825 4, 035 6, 6 6, 6 6, 6 6, 8 1, 745 1, 891 4, 65 6, 6 6, 6 6, 6 6, 8 1, 745 1, 891 4, 65 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 6 6, 7 6, 7 6, 7 863 7 7 7 87 7 7 7 863 7 7 87 7 863 7 863 7 7 87 73 87 863 7 863 7 73 87 73 8 860 1 102 74 975 73 8 72 73 8 72 73 8 72 73 8	Ausselsdodo				3, 750 2, 100				-	3, 190 1, 080	
Market, private, spring bushels. 25, 247 100, 411 191, 449 339, 887 404, 459 423, 439 621, 155 863, 387 404, 459 423, 439 423	spring_bushels_ Market, public, fall				200		190.0	101 100 100			10 10000000
fall bushels 24,042 90,039 229,016 392,709 341,017 389,525 594,075 872,75 Seed, public, spring bushels 860 1,002 74,115 72,405 74,975 73,4 Seed, public, fall 4,500 2,250 52 47 115,058 92,308 119,610 94,6 Seed, private, spring bushels 16,544 6,886 42,643 40,750 529,963 556,963 589,150 604,5 Seed, private, spring bushels 80,168 77,542 80,168 77,542 80,168 77,54 80,168 18,314 38,62 18,314 38,62 18,314 38,62 18,314 38,62 18,314 38,62 18,314 38,62 18,314 38,62 38,72 38,72 40,624 254,909 437,52 43,72 40,624 254,909 437,52 43,72 43,72 40,624 254,909 437,52 43,72 43,72 43,72 43,72 43,72 43,72 43,72	Market, private, spring_bushels_				100, 411						3.5
Seed, public, fall	fallbushels_			24, 042	90, 039	229, 016	392, 709	341, 017	389, 525	594, 075	872, 273
Seed, private, spring bushels Seed, private, fall scallops: Bay do 239, 191 396, 565 15, 718 40, 624 254, 909 437, 32 254, 909 437, 909 437, 909 437, 909 437, 909 437, 909 437, 909 437, 909 437, 909 4	Seed, public, fall			4 500	0.050						
Periwinkles do 969 3, 887 17, 345 34, 680 80, 168 77, 542 80, 168 77, 542 81, 314 38,	Seed, private, spring_bushels_		-							1131113-30-2111	200000000000000000000000000000000000000
Scallops: 239, 191 396, 565 15, 718 40, 624 254, 909 437, 1	bushels			969	3, 887	17, 345	34, 680	80, 168	77, 542		
12, (30) 103, 201 00, 120 11, 122	Scallops: Baydo	79 796	100 201	239, 191	396, 565	15, 718				254, 909	437, 189
	, Seado	72, 736	109, 201	85, 123	77, 122					157, 859	186, 323

Industries related to the fisheries of the New England States, 1930

Item	Maine	New Hamp- shire	Massachu- setts	Rhode Island	Connecti- cut	Total
Fransporting: Persons engaged— On vesselsOn boats	Number 239 1	Number 3	Number 30	Number 19	Number 72	Number 363 I
Total	240	3	30	19	72	364
Vessels— Steam Net tonnage Motor Net ionnage	115 1, 260	1 16	12 199	6 55	3 150 13 305	3 150 147 1, 835
Total vessels Total net tonnage	115 1, 260	1 16	12 199	6 55	16 455	150 1, 985
Boats	1 187	3	193	34	33	1 450
Proprietors	214 155	5	77 762	28 58	40 53	364 1, 028
Average for season Average for year Salaries and wages paid Manufactured products 1 Fishermen's manufactured prod-	5, 888 1, 814 \$1, 822, 209 \$6, 877, 816	\$17,780 (2)	2, 734 2, 429 \$5, 192, 823 \$15, 869, 420	328 218 \$372, 328 \$1, 291, 225	903 694 \$1, 050, 320 \$2, 716, 889	9, 862 5, 163 \$8, 455, 460 \$26, 755, 350
ucts: Persons engaged Products	355 \$133, 956		3, 325 \$691, 678	467 \$37, 331		4, 147 \$862, 965

¹These production figures are not comparable with those shown in previous bulletins since packaged resh and frozen fishery products are now included.

¹Included with Maine.

Note.—Of the total number of persons employed on transporting craft, 8 have also been included as fishernen, and among the total persons engaged in the preparation of fishermen's manufactured products, 2,950 lave been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

MAINE

Fisheries of Maine, 1930 OPERATING UNITS: BY GEAR

	Purse	seines			Gill r	nets		1	Lines	Float
Item	Mack- erel	Other	Haul	Anch	or Dr	ift	Stake	Hand	Trawl	ing traps
Fishermen: On vessels	Num- ber 97	Num- ber 95	Number		ber Nun	mber 8	Num- ber	Num- ber 12	Number 190	
On boats and shore— Regular Casual	38	19	164	13 5	36 59	8 7	5	532 686	839	32
Total	135	114	169	23	32	21	5	1, 230	1, 029	35
Vessels: Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons. 51 to 60 tons.	9 5	16 5 1			5 2			5	8 7 2 2 2	
Total Net tonnage	15 174	23 242			7			5 32	21 410	
Sail— 10 to 20 tons Net tonnage	1 19					1 19			1 19	
Total vessels	16 193	23 242			7 37	1 19		5 32	22 429	
Boats: Motor. Other. Accessory boats. Apparatus:	14 14 22	5 6 29	79	5	1 59	4 4	1 5	303 157 1	581 162 138	3
Number Length, yards Square yards Hooks, baits, or snoods	31 7, 994	28 6, 724	78 10, 026	1, 41 209, 75		74 681	105 4, 725	4, 375	33, 050 1, 629, 100	
		Ī							Pots	
Item	Wei	irs Fyl		Bag nets	Pocket nets	trav			ab Eel	Lob- ster
Fishermen: On vessels	Nun		m-Num- ber	Num- ber	Num- ber	Nu be				Number 10
Regular Casual	24 8	46 33 1	3 98	33 60	6		61	10	37 13 11	2, 138
Total	32	29 1	3 104	93	6	10	00	10	37 24	2, 150
Vessels:							7			5
Total Net tonnage							10 92			5 27
Boats: MotorOtherApparatus:	13	32 1		15 58	2 4		30	2	28 2 10 22	1,804 849
NumberYards at mouth	21	13 5	9 104	165	17	1, 1		10 1,68	35 440	205, 302

Fisheries of Maine, 1930—Continued OPERATING UNITS: By GEAR—Continued

Item	Har- poons, sword- fish	Spears	Dredges, scallop	Forks	Hoes	By hand	Total, exclu- sive of dupli- cation
nermen: On vessels On boats and shore—	Number 179	Number	Number 21	Number	Number	Number	Number 439
Regular	54	4 37	109	1, 605 28	16	<u>1</u>	3, 760 952
Total	233	41	130	1,633	16	1	5, 151
sels: Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons. 51 to 60 tons. Total.			5 2				49 21 3 2 1 2
Net tonnage	374		65				962
Sail— 10 to 20 tons Net tonnage Total vessels Total net tonnage	19		7 65				1 19 79 981
ats:	333						901
MotorOther		1 40	94 7	224 581	3		2, 166 1, 726 189
Number Yards at mouth		41	113 157	1, 598	16		248, 974

CATCH: BY GEAR

		Purse	seines				Gill nets				
Species	Mack	erel	Oth	er	Hauls	seines	Anch	or	Dri	ift	
ewives	6, 381, 032 1, 900, 205 143 43 54, 026	62, 546 74, 198 3 816	32, 602, 280 150, 000 65, 810	\$169, 471 7, 200 658	2, 561, 391 268, 770	\$13, 873 	349, 900 986, 627 15, 152 1, 720 34, 189 82, 797 190	\$660 93, 208 354 97 23, 931 6, 054 29 61 14, 140 14, 397 4, 826 121 871 15, 851 16	25, 000 89, 462 600 29, 800	\$214 3, 282 180 808	
Total	8, 486, 249	142, 044	32, 819, 590	177, 359	2, 841, 413	58, 513	5, 786, 314	174, 622	145, 112	4, 534	

Fisheries of Maine, 1930-Continued

CATCH: BY GEAR-Continued

Lines

	Gill	nets-				Line	S		_			_ 1	Wei	_
Species		take		Har	nd	1	Tra	wl	F	loating	trap	os	vv en	19
	Poun	ds Valu	e Po	าเทสต	Vala	1.0	Pounds	Val	ne P	nunda	Val	ue -	Pounds	Valu
Alewives	1 Juli	- vaiu	1.0		- 410	1	Junus				- 46		630, 833	
Bluefish			.							200				
Butterfish									1	10,840	14, 8	352		
Catfish and bull-		1	1						1					
heads		l_	_			1	15, 425	\$	158					
heads			_ 1. 79	96, 906	\$41.0	85 7,	905, 720	202,	487					
Cusk			_ [1	16, 975	1	73 1,	312, 165	27.	957					
Pale		- 1		0.000	60 to 25 to		15, 640	1,	564					
Flounders Haddock							57, 739	1.	578					
Haddock			_ 1, 25	50, 936	32, 7	05 9,								
H8Ke			- 1. Zi	00, 418	12, 0	61 9,	833, 249	95,	654					
Halibut			_ 1	15, 647	2, 7	29	87, 330	14.	929					
Halibut Herring, sea							-		1, 4	74,000	9, 7	766 30	, 892, 012	129, 7
Mackerel			-1						5	46, 590	18, 9	918	6,000	30
Pollock			49	98, 713	6. 5	13	493, 253	7.						
Pollock				,			3, 845	5	34					
SalmonShad	9.0	00 \$2 70	0				-,	1		8,958	2.3	381	50, 512	15.70
Shad	0,0	00 22, 10	٠							1, 589	-, \	26	50, 512	20, 1
Shorks							5 121		123	1, 500		41		
Sharks Smelts Whiting Wolffish	7 3	34 1 10	0 20	7, 270	39 2	92	0, 12		-20	150		23	6, 124	1 1
Whiting	,, 0	1, 10	7 4	, 2.0	55, 5					28, 630			0, 124	4, 4
Wolffish			-				67, 447		861	_0,000				
Squid							01, 11	1		19, 140	1 1	185		
Squid							•		1	19, 140	1, 1	100		
Total	10.0	34 3, 80	0 5 0	26 960	122 0	58 20	207 540	647	380 2 0	01 507	47 1	270 21	, 585, 481	150 6
Total	16, 3	34 3, 80	0 5,0	36, 866 	133, 6	58 29,	297, 548	047,	389 2, 2	91, 597	47,3	379 31	, 585, 481	152, 6
Species		Fyke	nets		Dip :	nets	F	ag n	ets	Pock	et ne	ets	Otter t	rawls
				_ _			_				-			
		Pounds	Val	ue Po	unds	Val	ue Pou	nds	Value	Poun	ds Ve	alue	Pounds	Valu
Alewives				1.3	16. 14	6 37. 0	59							
Cod													784, 515	\$19.9
Cuelr	- 1		J.	- 1			1						6 053	
Fels Flounders Haddock Hake Halibut		1. 59	\$1	60	8, 64	0 8	64						8,000	2
Flounders		-1				1						1	. 887, 235	87. 2
Haddock			1										846, 154	87, 21 20, 13
Hake			1										267, 052	2, 5
Halibut													129	-,0
Pollock													594	-
Salmon					4. 03	0 1.4	11						001	
Sharks						-		- 1				C 251 720 1	200	
					19.00	0 2.9	00 125.	213 \$	21, 978	1. 5.	50 5	293		
SmeltsSuckers		36, 85	2.9	49	20,00	-, -	120,	-10	-1, 0.0	2,0	,			
Tomcod			1-,0				40,	000	600					
Wolffish							10,	300					1,956	
Yellow perch		38	2	45		-							1, 000	
- c.ion percii			1											
Total		38, 84	2, 3, 1	54 1, 3	47, 81	6 12, 2	165,	213	22, 578	1, 5	50	293 3	, 802, 788	130, 2
	Ī		T				I	ots					-	
Species	В	ox trap	s -		'rab	1	T	el		Lob	ster		Harpo	oons, lfish
			_						_		~~~			
	Pos	unds Va	1110	Pound	18 V	alue	Pound	Val	ne D	nunde	Va	lue	Pounds	Vale
Eels	21	875 84	232	· vanu		Leut	130 690	1810	442	· anua	vu	·uc	Lounus	· asu
Spearfish	31	, 010 .54,	202	• • • • • • • • • • • • • • • • • • •			139,000	1010,					04	
Swordfish								1					572, 519	02 6
Tuna or "horse mack				• • • • •									912, 519	90, 2.
arel"						- 1							140, 918	6, 8
erel" Crabs, hard				001 2	53 620	300			;	32, 000		200	140, 918	0, 8
Lobsters				14 7	71 429	654				25 075	2 000	1, 090		
AJONOTOTO				14, /	-1 4	, 004			(, (00,010	2, 002	., 0/4		
Total	21	875 4	232 1	006 1	24 24	044	130 690	10	449 7 9	67 975	2 003	7 064	713, 531	100 N
	31	, 010 4,	202 1,	_				10,	112 1, 8	01, 818	2, 007	, 004	110, 001	100,0
Species		Spea	irs	Dre	dges,	scall	op	For	ks		Hoe	s	Byb	and
		Dounda	Vale	De-	mda	Vale	e Dec	mda l	T/ale	Danie	marla	I/al-	Danie 1	17-1-
Tala	1.	Pounds			ınds	Valu	e Pou	mas	Value	Pou	nas	vaiu	Pounds	y alt
Eels		36, 545	4, 71	1										
Clams:	- 1							-						ء ا
Cockle								- 555	0004		-===		4, 206	\$2
Soft, public					-		9, 457	, 338	\$334, 86	2 191,	250	6, 750	J	
Soft, private							276	6, 080	7, 36	i4				
Scallops, sea				- 436	, 416 \$	109, 2	01							
(Data)	-	00		-1		.00	010 ===	4.5	046.5	-	-			-
Total		36, 545	4,71	1 436	, 416	109, 2	01 9, 733	, 418	342, 22	26 191,	250	6,750	4, 206	2
				<u>'</u>									,	-

Fisheries of Maine, 1930—Continued OPERATING UNITS: By COUNTIES

Sali											
shermen: On vessels. On ber	Item	ber-		ne-	Knox		nob-	ada-		ing-	York
Regular	On vessels	ber	ber		ber	ber				ber	Num- ber 8
See See	Regular	603		<u>-</u> 2			15				187
Motor	Total	859	1, 196	2	828	625	15	353	108	970	195
Total 32 5 24 9 6 102 Sail—10 to 20 tons 11 Net tonnage 19	Motor— 5 to 10 tons	12 2	5							3 1 1 1	1 1
Net tonnage	51 to 60 tons	2								-	
Net tonnage	Total Net tonnage		5 31								2 20
Total net tonnage		19									
Motor	Total vessels Total net tonnage										20 20
Mackerel. 9 7 14	MotorOther poessory boats pparatus:	163	551		126	119				594	95 50 3
Length, yards	MackerelLength, yardsOther	2, 215 6	4		2, 400 7			i			1 224
Anchor	Length, yards	36	7		16	10		6		. 2	1
Stake Square yards 240	AnchorSquare yards Drift	67, 220 45	8, 920			50, 240 4	3,	1,080	1, 919		20
Hand. 78 1,933 560 732 825 80 167 Trawl. 10,210 8,250 6,860 1,910 1,350 40 3,010 1,450 Hooks. 510,500 412,500 339,400 95,500 67,500 2,000 129,700 70,720 Floating traps. 11 2 9 3 3 3 Fyke nets. 74 17 4 4 3 18 93 Fyke nets. 9 7 15 2 30 41 Bag nets. 29 5 6 5 44 81 Pocket nets. 14 15 6 1 10 10 Otter trawls 14 15 6 1 3 3 1 3 3 Box traps. 3 3 1 3 3 3 1 3 3 7 Crab. 865 60 210 10 75 500 500	StakeSquare yards	6, 840	4			461	101				3, 200
Hooks	Hand Hooks	88	1, 951		560	732		825	80	167	1 420
Fyke nets 18 21 20 Dip nets 9 7 15 2 30 41 Bag nets 29 6 5 44 81 Pocket nets 7 10 10 Otter trawls 14 15 6 1 Yards at mouth 363 571 150 33 Box traps 3 3 1 3 Pots 60 210 500 Eel 75 60 20 10 75 55	Hooks Floating traps Weirs.	510, 500	412, 500		339, 400	95, 500 2 4	4	9	2,000	129, 700	72, 000
Otter trawls 14 15 6 1 Yards at mouth 363 571 150 33 Box traps 3 1 3 Pots— 3 3 1 Crab 865 60 210 500 Eel 75 60 20 10 75 55	Fyke nets Dip nets Bag nets				7			2	30	81	
Pots— Crab	Otter trawls Yards at mouth		571			33					
Harpoons, swordfish 28 1 4 8	Pots— Crab. Eel. Lobster.	23, 104	51, 774		20		10	75 3, 213 8	55 440	500 47, 644	145
Spears 2 15 5 12 3 Dredges, scallop 10 64 23 16 Yards at mouth 13 84 43 17 Forks 271 451 149 191 79 12 355	Spears Dredges, scallop Yards at mouth Forks.	10	64 64 684		23 43					16 17 355	90
Hoes 16	Hoes	·								16	

U. S. BUREAU OF FISHERIES

Fisheries of Maine, 1930—Continued CATCH: By COUNTIES

Species	Cumb	erland	Hand	cock	Kenn	ebec
Species	Pounds	Value	Pounds	Value	Pounds	Valu
Alewives			501, 016	\$3, 878		
Bluefish	200	\$19		40,0.0		
Butterfish	26, 540	2,606				
Catfish and bullheads	15, 425	158				
Cod	4, 316, 774	142, 726	3, 302, 790	69, 408		
Cusk	860, 739	19, 947	140, 517	1,700		
Eels	23, 000	1,740	30, 075	2, 208	1, 520	\$1
Flounders	442, 043	11,048	872, 249	58, 577		l
Haddock	4, 911, 785	171, 963	2, 337, 586	50, 559		
Hake	2, 741, 367	44, 739	5, 543, 920	38, 791		
Halibut	19, 203	3, 263	29, 308	4,865		
Herring, sea	12, 795, 175	80, 107	10, 440, 248	44, 666		
Mackerel	1, 120, 486	36, 706				
Pollock	1, 223, 166	17, 548	342, 832	3, 980		
Rosefish	3, 845	34				
Salmon	1,971	418	35, 092	11, 128		
Shad	60, 604	978				
Sharks	41,010	1, 039				
Smelts	92, 467	14, 321	170, 443			
Spearfish	94	11				
Sturgeon	190	16				
Suckers	F71 050	02.124				1,
Swordfish	571, 853	93, 134				
TomcodTuna or "horse mackerel"	11, 252	297				
Tuna of "norse mackerel"	59, 511 28, 630	2, 656 168				
Whiting	51, 710	686				
Wolffish Crabs, hard	766, 853	22, 961	1,000	10		
Lobsters	1, 051, 067	298, 211	1, 915, 824			
Squid	34, 040	340	1, 510, 022	412,041		
Clams:	34,040	940				
Soft, public	1, 741, 208	96, 683	2, 425, 084	59, 865		1
Soft, private	1, 171, 200	30,000	19, 040	560		
Scallops, sea	4,800	1,800	135, 798	52, 292		
ocanops, southern and a	1,000	1,000	100,700	- 02, 202		
Total	33, 017, 008	1, 066, 323	28, 242, 822	911, 188	22, 834	1,8
	K	nox	Line	oln.	Penob	scot
**************************************	1	HOX	Dille	OIII	1 611010	SCOL
Species						
	Pounds	Value	Pounds	Value	Pounds	Valu
Alewives		6 \$3,091	750, 500	\$7,978		
Butterfish			10,600	1,060		
Cod			1, 171, 903	27, 975		
Cusk			111,851	2, 197		
Eels			3, 400	336	200	\$
Flounders	596, 315	5 17, 458	37, 018	1, 736		

Species	Kn	ox	Line	coln	Penobscot		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
Alewives. Butterfish. Cod. Cusk Eels. Flounders. Haddock Halke. Halibut Herring, sea Mackerel Pollock Salmon Shad Smelts. Suckers. Swordfish Tuna or "horse mackerel" Whiting. Wolffish Yellow perch Crabs, hard Lobsters. Squid. Clams: Soft, private Scallops, sea	2, 267, 003 130, 165 24, 700 596, 315 2, 734, 758 1, 712, 896 14, 839 9, 069, 902 168, 643 175, 945 19, 400 140, 537 666 12, 000 2, 283 10, 000 1, 998, 295	\$3, 091 51, 340 2, 804 3, 445 17, 458 79, 924 15, 932 2, 533 49, 136 8, 781 2, 542 291 21, 304 80 60 23 532, 974 26, 077	750, 500 10, 600 1, 171, 903 111, 851 3, 400 37, 018 684, 145 864, 102 6, 663 7, 315, 260 1, 116, 428 91, 170 1, 250 7, 900 48, 533 5, 045 19, 680 217, 498 22, 100 903, 652 257, 040	\$7, 978 1, 060 27, 975 2, 197 2, 197 336 1, 736 11, 251 65, 153 49, 533 1, 360 49, 533 1, 360 49, 533 1, 360 1, 181 1, 181 17 10, 140 235, 964 221 30, 011 6, 804	200 17, 952 29, 099	5,08	
Total	20, 669, 767	870, 514	14, 669, 426	478, 179	47, 251	9, 47	

Fisheries of Maine, 1930—Continued

CATCH: By counties-Continued

	Sagad	ahoc	Wa	ldo	Washin	gton	Yor	k
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lewives	82, 000 75, 000	\$656 11, 225	6, 665	\$200	211, 598	\$1,566		
od	548, 080 12, 790	16, 079 255	51,000	1, 230	1, 188, 792 34, 507	28, 613 345	637, 622 63, 414	\$19, 360 1, 307
elslounders	46, 305	2, 631	39, 900	3, 191	24, 725	3, 677	48, 150 2, 341	4, 815
addockake	190, 870 117, 500	5, 721 1, 175	23, 665 32, 750	710 655	798, 912 466, 423	18, 808 3, 512	826, 417 206, 439	26, 486 2, 870
alibut erring, sea	2, 400 1, 725, 000	360 10, 870	136, 500	615	26, 313 32, 396, 695	4, 731 134, 559	4, 618 60, 000	705 600
lackerelollock	272, 400 32, 400	8, 940 324	6, 000	300	111, 406	1, 926	358, 200 68, 223	13, 778 936
almon	1, 950	488	22, 750	7, 114	7, 330 731	2, 696 73		
meltsturgeon	68, 650 250	13, 258 50	82, 133	12, 605	82, 181	17, 382	6, 665	1,000
omcod	10, 500	840	40, 000	600		• • • • • • • • • • • • • • • • • • •		
una or "horse mack-	56, 927	2, 748						288
olffish ellow perch	250	28			22, 500	169	14, 927	167
rabs, hardobsters	182, 422 63, 000	47, 875 624	8, 957	2, 801	1, 372, 652	328, 936		86, 255
lams: Cockle					4, 206	210		
Soft, public	405, 960	16, 003	35, 020	2, 840	2, 874, 462 25, 116	79, 533 2, 890	520, 200	30, 600
Total	3, 894, 654	140, 150	485, 340	32, 862	39, 648, 549	629, 626	3, 125, 983	189, 237

Industries related to the fisheries of Maine, 1930 TRANSPORTING

Item	Cumber- land County	Hancock County	Knox County	Washing- ton County	Total
ersons engaged: On transporting vessels On transporting boats	Number 22	Number 23	Number 18	Number 176	Number 239
Total	22	23	18	177	240
essels: Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons			6 3	43 33 6 1	65 42 6 1
Total Net tonnage	11 96	11 111	9 79	84 974	115 1, 260
oats				1	1

Industries related to the fisheries of Maine, 1930-Continued WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Cum- berland County	Han- cock County	Knox County	Lin- coln County	Penob- scot, Saga- dahoc, and York Counties	Wash- ing- ton County	Total
Establishments	29	29	33	13	4	79	187
l'roprietors	43	32	29	12	5	93	214
Salaried employees	59	9	24	7	1	54	154
Average for season	1, 424	614	474	209	21	3, 143	5, 800
Average for year	440	199	170	98	21	866	1,814
Paid to salaried employees	\$153, 317	\$31, 126 177, 969	874, 971 145, 919	\$8, 977 78, 788	\$7,900 34,005	\$128, 022 581, 900	\$404, 128 1, 418, 086
Total salaries and wages	552, K22	209, 095	220, 890	87, 665	41, 905	700, 932	1, 822, 200

PRODUCTS MANUFACTURED !

Item	Quantity	Value
Alewives, salted pounds.	582, 400	\$15, 119
Coll		10/07 10/07
Fresh sticks	290, 390	49, 496
Salted	1, 477, 124	85, 50
Fish cakes, canned standard cases.	9, 051	59, 520
(nl, cod-liver	33, 904	21,662
Cusk Fresh sticks pounds	150, 490	25, 732
Salted		3.839
Flounders, fresh fillets do	H. 960	1, 402
Haddock	11.00	0.000.000
Fresh sticks	183, 470	31,564
Fresh fillets	504, 9804	54, 500
Frozen fillets	566, 349	66, 702
Salted	121, 367	6, 252
Finnan bachlie do	175, 800	25, 370
Smoked fillets	193, 150	38, 530
Hake:		
Fresh sticks	214,000	35,092
Fresh filletsdo	39, 605	
Salteddo	3, 195, 722	86, 051
Herring, sea		
Smoked -	1 276 445	70 424
Bloatersdo	1, 639, 445	76, 634
Boneless	1, 387, 750	149, 263
Lengthwise	127, 794	12, 780
Medium-scaled	265, 036	26, 263
Miscellaneousdo	54, 447	8, 209
Canned, "sardines"standard cases	1, 399, 212	4, 459, 071
Mealtons	2, 126	77, 913
Scrap, dry pomace	3, 736	7, 592
Oil gallons	125, 242	32, 346
Scalespounds	81, 153	1, 932
Pollock, salted do	173, 067	8, 381
Soft clams:		
Canned	0.000	110 004
Whole standard cases	95, 203	419,636
Chowder		177, 991
Juice and bouillondo	16, 389	54, 782
Unclassified products:		***
Fresh and frozen 1		22, 953
Salted 2do		46, 014
Smoked 4do		10, 273
Canned 5 standard cases.	44, 955	451, 259
Meal, ground fish tons.	896	45, 082
By-products 6	(7)	148, 750
Total		6, 877, 816

Includes salt cod bits, boneless cod, cheeks, tongues and sounds, herring, mackerel fillets, and mackerel split; and pickled herring.

7 Data not available.

¹ Includes a small quantity of fish smoked in Rockingham County, N. H.
² Includes fresh cod and cusk fillets; frozen cod, cusk, flounders, bake, and wolffish fillets; and frozen hake sticks.

⁴ Includes smoked cod fillets, cusk fillets, and hake fillets.
5 Includes canned clam cakes, finnan haddle, fish flakes, haddock fillets and smoked herring.
6 Includes glue, herring skins, herring dry scrap, clam meal, tanners' oil, and buttons made from imported shells.

Industries related to the fisheries of Maine, 1930—Continued FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 223]

Item	Quantity	Value
Alewives: Salted	322, 025 208, 063 10, 407 2, 308 685	\$8, 057 6, 937 765 92 27
Herring, sea, saited do do Mackerel, saited do do Pollork, saited do	9, 170 665 2, 665	447 13 118
Crab meat, packaged (fresh-cooked) do Geallops, sea, fresh-shucked gallons. Total	15, 600 57, 476	7, 800 109, 700 133, 956

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 174 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NEW HAMPSHIRE

Fisheries of New Hampshire, 1930 1

OPERATING UNITS: BY GEAR

	Purse seines.	Haul	Li	nes	Pots.	Har-	Total, exclu-
Item	mack- erel	seines	Hand	Trawl	lobster		sive of dupli- cation
Fishermen: On boats and shore— Regular. Casual.	6	Number 3	Number 40	Number 12	Number 34	Number 4	Number 46
Total	6	3	40	12	34	4	56
Boats: Motor	2 2	1 1		6	32 2	2	38
NumberLength, yards	500	100	160	3, 600	2, 570	2	

CATCH: BY GEAR

G	Purse		n	Haul seines		Li	ines		Data	1	Harp	Harpoons,	
Species	seines	sei	Hand			Trawl		lobster	swordfish				
Cod	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs. 157, 800	Value \$3, 945		Value	Lbs.	Value	
CuskFlounders							7, 890 15, 780	117 473					
Haddock Hake Halibut							394, 000 78, 900 300	1, 174					
Herring, sea	100, 000	\$4,000	60, 000	\$450									
Pollock Smelt					8,000	\$1,600	39, 450	562					
Tuna or "horse mack- erel" Wolffish	••••						23, 670	473			2, 700	\$162	
Lobsters							23, 010			\$40, 363			
Total	100, 000	4, 000	60, 000	450	8,000	1, 600	717, 790	22, 569	180, 587	40, 363	2, 700	162	

¹ The fisheries of New Hampshire are confined to Rockingham County.

U. S. BUREAU OF FISHERIES

Industries related to the fisheries of New Hampshire, 1930

TRANSPORTING

Persons engaged on vessels Vessels:	3
Number Net tonnage	1 16
WHOLESALE AND MANUFACTURING IN ROCKINGHAM COUNT	Ϋ́
OPERATING UNITS, SALARIES, AND WAGES	
Establishments Persons engaged:	3
ProprietorsWage earners 1	5 9
Paid to salaried employees and wage earners \$17,	

 $Note. - A \ small \ amount \ of \ smoked \ fish \ produced \ in \ New \ Hampshire \ has \ been \ included \ with \ Maine \ to \ avoid \ the \ disclosure \ of \ private \ enterprise.$

MASSACHUSETTS

Fisheries of Massachusetts, 1930

OPERATING UNITS: BY GEAR

	Purse	seines		Gil	l nets]]	Lines		Float-	
Item	Mack- erel	Other	Haul seines	Anchor	Drift	Hand	Trawl	Pound nets	ing traps	Weir
Fishermen: On vesselsOn boats and shore—	Num- ber 1,019	Num- ber	Num- ber	Number 209	Number 681	Num- ber 254	Number 1,243	Number	Num- ber	Num ber
Regular	74	2 6	34 8	70 2	187 3	173 10	535 1	196	34	
Total	1, 093	8	42	281	871	437	1,779	196	34	
Vessels: Motor— 5 to 10 tons	91 2,823			4 8 9 1 1 	7 40 12 7 6 3 1	1 6 1 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1	5 18 1 2 6 10 14 7 3 3 2 1 1			
Sail—5 to 10 tons Net tonnage						1 6				
Total vessels Total net tonnage	91 2, 823			22 433	76 1,699	19 735	73 3, 685			
Boats: Motor Other Accessory boats Apparatus: Number	14 15 109 105	3 5 3	8 18 13	49 41 2, 034	67 44 50 9,461	118 33 9 583	202 24 643 54, 956	59 103	13 19	
Length, yards Square yards Hooks, baits, or snoods	50, 098	410	2, 225	653, 340	3, 286, 236	849	2, 730, 464			

¹ Salaried employees are included with wage earners.

Fisheries of Massachusetts, 1930—Continued

OPERATING UNITS: By GEAR-Continued

, and the second							F	ots		
Item	Fyke nets	Dip nets	Push nets	Otter trawls	Box traps	Crab	Eel	Lobster	Peri- winkle or cockle	Har- poons, sword- fish
Fishermen: On vessels	Num- ber	Num- ber	Num- ber	Number 2,410	Num- ber	Num- ber	Num- ber	Number 5	Number	Number 979
On boats and shore— Regular————————————————————————————————————	19 8	110 13	18 35	190	5	22	52 7	635 287	11	49
Total	27	123	53	2, 600	5	22	59	927	11	1, 028
Vessels: Steam— 91 to 100 tons				5						
111 to 120 tons				6						
131 to 140 tons 151 to 160 tons				1						
171 to 180 tons				2						
201 to 210 tons 211 to 220 tons				1 2						
241 to 250 tons 261 to 270 tons				1						
Total				22						
Net tonnage			===	3, 291			=====		=====	
Motor— 5 to 10 tons				25 79				3		10 3
21 to 30 tons				23 14						
31 to 40 tons			İ	15 25						1.
51 to 60 tons				10						
81 to 90 tons				3 7						ì
91 to 100 tons				5 13						
131 to 140 tons 151 to 160 tons				<u>i</u> -						
161 to 170 tons 171 to 180 tons				1 2						
201 to 210 tons				ī						
Total Net tonnage				233 9, 649				3 21		3, 139
Total vessels				255 12, 940				3 21		3, 13
Boats: Motor Other	3 19	27 11	28	76	1	22	37 26	643 431 12	7 4	1' 21 203
Accessory boats	52	61	53	331 9,750	1	1,735	1,782	69, 249	1, 012	10

U. S. BUREAU OF FISHERIES

Fisheries of Massachusetts, 1930—Continued OPERATING UNITS: By GEAR—Continued

			Dredges							Total,
Item	Spears	Clam	Oyster	Scallop	Tongs	Rakes	Forks	Hoes	By hand	sive of dupli- cation
Fishermen: On vesselsOn boats and shore—	Num- bre	Num- ber 26	Number 11	Num- ber 68	Num- ber	Num- ber 8	Num- ber	Num- ber	Num- ber	Number 4, 445
Regular Casual	114 97	123	18 6	371 464	137 45	436 114	343 195	322 258	10 21	2, 859 1, 377
Total	211	149	35	903	182	558	538	580	31	8, 681
Vessels: Steam— 91 to 100 tons										5 6
121 to 130 tons										1 1
171 to 180 tons										6 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1
241 to 250 tons 261 to 270 tons										
Total Net tonnage Motor—										3, 291
5 to 10 tons						1 2				50 130 38
31 to 40 tons										24 25 41 27
71 to 80 tons										17 6 10
101 to 110 tons 111 to 120 tons 121 to 130 tons										5 15
131 to 140 tons 151 to 160 tons 161 to 170 tons 171 to 180 tons										1 1 1 1 2 2 1 1
201 to 210 tons										
Total Net tonnage		10 92	40	16 200		30				395 15, 384
Sail—5 to 10 tons Net tonnage										6
Total vessels Total net tonnage		10 92	40	200 200		30				418 18, 681
Boats: Motor Other Accessory boats	68	67	10	556	65 112	72 469	16 97	28 248		1,669 1,477 979
Apparatus: Number Yards at mouth	201	78 40	26 27	2, 877 2, 337	183	552	538	610	•••••	

Fisheries of Massachusetts, 1930-Continued

			CAT	CH: B	Y G	EAR					
		Purse	seines						Gill	nets	
Species .	M	ackerel	Ot	her	E	Iaul se	eines	And	hor	Dri	ft
Alewives	Poune		e Lbs.	Value	Po 83	unds 79, 000	Valu \$8, 79	e Pounds	Value	Pounds	Value
AlewivesBluefish						900	10	08 4, 21			
ButterfishCatfish and bull- heads	17,										
heads								4, 198, 60	1 181, 59	5	
Cusk Flounders								7, 58		6 1	
Haddock								2, 59 1, 488, 22	4 49 44	3	
Haka							1965	1 190 00	1 18, 98	2	
Herring, sea Launce Mackerel Pollock	331,	660 4,0	058	21 240	١.	2, 500	1 6	38		6,000	120
Mackerel	38 390	303 1 280	713	\$1,340	į :	80, 000 23, 500	1, 60	253 56	5 12 630	5, 106, 885	200 604
Pollock		1, 200,				20, 000	1, 17	8, 577, 04	0 132, 39	9	200, 001
Sea Dass					1					1,000	
ShadSharksSkates	19,	001	367 104			8,000	56		8 29	5 100	8
Sharks	1,	921	104					9, 77	1 35	2	
Striped bass						16, 000	3.87		2		
Striped bass						450	4	15			
Wolffish								11	2	2	
Total	38, 954	705 1, 297.	94 80, 750	1.340	1.0	10. 350	16. 19	01 15, 751, 58	397. 51	8 5 142 485	203. 727
10001	00, 001,	100 1, 201,	01,00,100	1 2,010	1,0	10,000	10, 10	,,,,,,,,,	,,057,01	112, 100	200, 121
Species		На		ines	Tra	awl		Pound	s net	Floating	traps
4			,								,
		Pounds	Value	Poun	ds	Val	ue	Pounds	Value	Pounds	Value
Alewives					i			131, 151	\$1, 288	4,000	\$55
BluefishBonito		129, 175	\$10,940					32, 417	3, 805	2, 935	358
Butterfish					540		\$27	80, 617 551, 879	6, 357 45, 053		4, 954
Carp Catfish and bullbeads								2, 976	59		
Catfish and bullheads	3			24,	140		598			385	14
Cod Cusk		3, 361, 921 223, 033	97, 077	29, 646, 3, 755,	776	902	2, 932 3, 591	42, 241	1, 384	43, 345	1, 288
Eels		3, 100	310	81.	488	1 1	, 640	2, 147	172		
Flounders		52, 380	2, 088	2, 474,	152	110	, 500	39, 793	2, 141		
Grayfish		1 510 001		1				56, 196		900	27
Haddock Hake		1, 513, 361 228, 824	6 712	43, 182, 7, 677,	567		, 214				21
Halibut		60, 953	10, 222	2, 140,	082		2, 505				
Herring sea								2, 548, 092	29, 189		12, 432
King whiting or "Kin Launce	gfish".							200	21	9, 676	194
Mackerel		23, 500	1, 445		495		59	1, 198, 023	42, 835	353, 908	
Pollock			3, 023	1, 483,	940	26	5, 812	6, 073	117	119, 010	1,788
Rosefish					294		4			30	9
Salmon		469 370	23 623					176, 897	6, 603		
Scup or porgy Sea bass Sea robin		73, 718	6, 146					2, 760			
Sea robin								100	1		
ShadSharks								21, 967 27, 815	1, 688		!
Skates				16.	500		330		42		
Smelt		6, 200									
Squeteagues or "sea t Gray	rout'':							1.000	1.40		ĭ
Gray								1, 238 1, 246	149 221		
Spotted Striped bass		4, 500	1, 150					4, 785	612		
Sturgeon								695	191		
Swordfish		266		21,	116	1 4	1, 094	21 054	1, 843		****
Tautog Tuna or "horse macke	rel"	77, 850	4, 895		85		8	31, 258 58, 226	4, 520	5, 520	386
Whiting								5, 319, 460	46, 793		
Wolffish		30, 431	646	346,	574		8, 944	2 10 54	F1 10.	267 611	7 400
Squid								3, 128, 549	51, 404	367, 011	7, 460
Total		6, 436, 528	228, 397	90, 851,	255	3, 025	5, 949	13, 498, 342	249, 489	3, 619, 931	57, 869

U. S. BUREAU OF FISHERIES

Fisheries of Massachusetts, 1930—Continued

CATCH: BY GEAR-Continued

Species	Wei	rs	Fyke	nets	Dip 1	aets	Pusb	nets	
Alewives	Pounds 3, 245	Value \$4	Pounds	Value	Pounds 474, 400	Value \$4, 269	Pounds	Value	
Bluefish	12,000								
Bonito	1,800	162							
Butterfish	11, 525	1,630							
Cod	10, 711	89							
Eels			79, 460	\$9, 979					
Grayfish									
Herring, sea	53, 625				4, 897, 500	66,600			
Mackerel					100, 000				
Minnows					6,000				
Striped bass	2, 100								
Tautog Tuna or " horse mackerel "	602								
Tuna or " norse mackerer "	1, 200	120							
Whiting		12, 559			4, 800	2 600			
ShrimpSquid	334, 446	10, 058			4, 800	3,000			
Scallops: Bay	994, 440	10,000					70, 200	\$20, 550	
comops. Day							10, 200	φ±0, 000	
Total	1, 029, 906	31, 299	79, 460	9, 979	5, 482, 700	77, 469	70, 200	20, 550	
Species	Otter trawls		Pos	traps		P	Pots		
Species	Otter	IAWIS		Luaps	Cı	rab	E	el	
	Pounds	Value	Pound	s Valu	Pounds	Value	Pounds	Value	
Alewives	800		8 100, 00		50				
Bluefish	665								
Butterfish	214, 990	19, 07			- -				
Catfish and bullheads	64, 400	1, 29							
Cod	40, 218, 629	1, 173, 98	3						
Croaker	140, 005	5, 60	0						
Cunner	18, 735	57	4						
Cusk	727, 291	14, 03	5						
Eels	9,670	34	0				237, 850	\$24, 20	
Flounders	28, 759, 989	1, 147, 62							
Frigate mackerel	384, 661 200	17, 92	3						
Goosefish	600		2						
Haddock	156, 502, 969								
Haddock	10, 144, 917	237, 15							
Halibut.	679, 409	112 91	1						
Launce	010, 100	112,01					12, 500	1. 25	
Mackerel	27, 568	3, 02							
Pollock	4, 650, 670	97, 33							
Rosefish	109, 563	2, 18							
Salmon	25		1						
Scup or porgy	145, 741	5, 57							
Sea bass	64, 109	2, 64							
Shad	493		3						
Sharks	8, 783	28							
Skates	33, 374	41							
Smelt	50		2						
Sturgeon	7, 050								
Swordfish	18, 515	3,00							
Tuna or "horse mackerel"	1, 035	6.96							
Whiting	225, 685 2, 143, 874	42, 37							
Wolffish Crabs, hard	2, 140, 8/4	42, 37	٠	-		\$74, 350			
Craus, naru			-		000, 400	417,000			
I+									

Fisheries of Massachusetts, 1930—Continued

CATCH: BY GEAR-Continued

		Po	ts		Harpoons,	sword.			
Species	Lob	ster	Periwi coc		fish	sword*	Spe	ars	
AlewivesEels			1 3		Pounds 2, 650	\$97	Pounds 65, 350	\$7 700	
Feis. Flounders. Sharks. Swordfish. Crabs, hard Lobsters. Clams, cockle. Periwinkles.	61, 898	\$11, 930		 	779 3, 688, 436	39 650, 429	6,000	180	
Clams, cockle Periwinkles	2, 330, 23	023, 94	9, 450 14, 742	\$1, 975 3, 587					
Total	2, 400, 13	637, 87	24, 192	5, 562	3, 691, 865	650, 565	71, 350	7, 946	
Species			Dr	edges			To	nae	
operes.	C	Clam		ster	Scall	ор	Tongs		
Clams:	Pound	8 Value	Pounds	Value	Pounds 11,700	Value \$1, 950	Pounds	Value	
Cockle	906, 71	2 \$182, 84 0 3, 00	7		1, 600	350	3, 600	\$43, 250 2, 049	
Mussels. Oysters: Market, public, spring. Market, private, spring. Market, private, fall. Seed, private, spring. Seed, public, fall. Periwinkles.					10, 800	3, 750 1, 750	116, 374	200 51, 399 51, 770	
Scanous:		1	1	1			31, 500		
Bay Sea				·	1, 351, 444 510, 738	77, 122			
Total	921, 11	2 185, 84	7 245, 893	83, 281	1, 942, 805	460, 973	424, 566	151, 918	
Species	Rak	es	For	ks	Hoe	?s	Byl	and	
Clams: Cockle Hard, public	Pounds 833, 432	250. 913			Pounds			\$790	
Hard, private Razor Soft public Surf or skimmer			1, 794, 992	\$145, 327	380, 266 1, 478, 660 31, 875	130, 607	4, 800		
Oysters, market, private, fall———————————————————————————————————							13, 500	3, 750	
Total	982, 132	261, 593	1, 794, 992	145, 327	1, 890, 801	153, 283	21, 720	5, 740	

U. S. BUREAU OF FISHERIES

Fisheries of Massachusetts, 1930—Continued OPERATING UNITS: By COUNTIES

Item	Barn- stable	Bristol	Dukes	Essex	Nan- tucket	Nor- folk	Ply- mouth	Suffolk
Fishermen: On vessels.	Num- ber 132	Num- ber 185	Num- ber 37	Number 1, 977	Num- ber 76	Num- ber	Num- ber 5	Number 2, 033
On boats and shore— Regular Casual	898 321	274 94	170 75	633 337	57 61	67 58	256 331	504 100
· Total	1, 351	553	282	2, 947	194	125	592	2, 637
Vessels: Steam— 91 to 100 tons								5 6 1 1 1 2 2
261 to 270 tons								1
Total Net tonnage				1 184				3, 107
Motor— 5 to 10 tons	11	4 1		13 3 6 1 3				10 59 13 7 7 15 11 4 3 4 4 12 1 1 1 1 1 2 1
Sail, 5 to 10 tons Net tonnage	1 6							
Total vesselsTotal net tonnage	26 333	25 662	7 97	159 6, 999	21 233		3 25	177 10, 332
Boats: Motor Other Accessory boats Apparatus: Purse seines—	497 498 35	202 153 7	160 142 18	283 346 590	74 47 9	43 23	249 253	161 15 320
MackerelLength, yardsOther	1, 850 3	3 378	500	28, 890				38 18, 480
Length, yards Haul seines Length, yards Gill nets—	410 5 1,300	100	1 450	5 350			1 25	
Anchor Square yards Drift Square yards Lines—	159, 820 1, 022	210 75, 600	143 44, 616	1, 281 476, 360 5, 524 1, 924, 020		1, 680	1, 440 47 20, 240	54 14, 040 2, 515 865, 000
Hand Hooks Trawl Hooks Hooks	56 65 4, 736 236, 800	148 296	19 19 240 7,800	278 377 23, 036 1, 143, 336	2 2	10 20	14 14 180 6, 480	56 56 26, 764 1, 336, 048

Fisheries of Massachusetts, 1930—Continued OPERATING UNITS: By counties—Continued

Barn- stable	Bristol	Dukes	Essex	Nan- tucket	Nor- folk	Ply- mouth	Suffolk
Num- ber 97 7	Num- ber 15	Num- ber 14	Number 1 12	Num- ber 4	Num- ber	Num- ber 5	Number
	7	3					
17			8		7	14	15
56 1, 575	25 850	15 395	69 2, 080	21 570			145 4, 280
						1	
					50	35	1, 650
					3 426		3, 825
	22,000	0, 110		-,	0, 120	87	0,020
20	8	5	53	3			18
66	51	1	15			68	
2017			1	2000		1	
		1		10			
						2	
		E49		400			
							2
		402		211			
		87		48			
41	9	i	275		75		125
140			338			117	15
	Stable	Stable Briston	Stable Briston Dukes	Stable Sristol Dukes Essex	Stable Briston Dukes Essex tucket	Stable Briston Dukes Essex tucket folk	Stable Stistol Dukes Essex tucket folk mouth

CATCH: BY COUNTIES

								
Occasion	Barnst	table	Bris	tol	Duk	es	Esse	ex
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBluefish	361, 808 112, 728	\$3, 206 11, 698	7, 235	\$116 440	19, 309	2, 387	67, 935	
Bonito Butterfish Carp	60, 581 448, 980 2, 976	4, 792 36, 329 59	500 22, 536	1, 876		559 6, 940		13, 490
Catfish and bullheads Cod Croaker	29, 700 4, 193, 539	596 152, 026		54 77, 974 5, 600	265, 205	7, 447	37, 725 25, 761, 505	1, 092 803, 393
Cunner Cusk	95, 644	1, 811	140, 005 415 1, 634	23 28			2, 119, 156	
Eels Flounders Frigate mackerel	144, 650 4, 506, 096	16, 588 141, 856	30, 207 4, 873, 326	3. 321 239, 798	72, 500 1, 117, 831	7, 536 35, 910		105, 582
Goosefish	38, 096 4, 101, 828	811	1, 200 12, 422, 658	15 381, 483		2,000	200	3
Hake Halibut	895, 775 6, 765	17, 481 1, 033	202, 802 46, 597	2, 573 7, 225	17, 040	328	5, 564, 841 1, 892, 731	101, 279 286, 736
Herring, sea King whiting or "kingfish"- Launce	2, 737, 152 100 90, 426	32, 365 13 1, 534					92, 500	2, 850
Mackerel Minnows Pollock	3, 079, 155 6, 000 155, 854	109, 566 1, 200	723, 090					
Rosefish Salmon			435	9			21, 269 30	414
Scup or porgy	2,750	300						
Shad Sharks Skates	21,778 440	1, 674 5		135			30, 399 14, 298 463	587
SmeltSqueteagues or "sea trout":							4, 100	
Gray Spotted Striped bass	200	40	1, 238		546			
Sturgeon				142			700	67

Pollock ... Rosefish Salmon ...

Shad....

Sturgeon.

Whiting

Swordfish. Tautog....

Sharks....

Herring, sea
King whiting or "kingfish"
Mackerel

Scup or porgy

Sea bass....

Skates....

spotted.....

Wolffish ______Crabs, hard _____

Lobsters.....

U. S. BUREAU OF FISHERIES

Fisheries of Massachusetts, 1930—Continued

CATCH: By counties-Continued

	В	arns	table	B		Bris	tol		Du	kes	Es	ex
Species	Pou	nds	Va	lue	Po	unds	Valu	10	Pounds	Value	Pounds	Value
Swordfish	341	1, 099	\$60), 182	٦	155, 997	\$21,	190	297, 14	4 \$51, 893	2, 293, 767	\$416, 02
Tautog	16	, 203	φυι	950	'	59, 337		500	21, 57	0 1, 300	2, 200,	AETO, OF
Tuna or "horse mackerel"	64	i, 296	4	, 961					65			19
White perch			=			450		45		a		
Whiting	6, 095	, 473	60	, 203		11, 152		198		8 134		11, 11
Wolffish	4.8	667		953		90, 347	1,	283			391, 792	
Crabs, bard		-:::		احتت							37, 706	8, 11
Lobsters		3, 062		, 308	2	259, 404	68,	350	356, 64	1 79, 202	607, 880	189, 77
Shrimp		, 800		600								
SquidClams:	3, 416			, 754		150, 689	2,	062	92, 92	1 1,586		
Cockle		7, 020		, 690								
Hard, public	1,069			3, 940		316, 120	93,	550	160, 88	0 53, 798	B	
Hard, private		l, 600	4	, 149								
RazorSoft public	251	1, 546	14	, 201								
Soft public	121	, 760	25	653		3,600		900				158, 17
Surf or skimmer						4,800	1,	200	1,60	0 350	31,87	2, 20
Oysters:	0000000								10.		1	
Market, private, spring-		, 808		2, 086						-{		
Market, private, fall	197	7, 794	85	, 122		6, 160	1,	950				
Seed, private, spring				-1::	'	77, 000	5,	500				
Seed, public, fall		, 500	2	2, 250						:::		
Periwinkles	١ ٤	, 324	1 2	, 383					2, 70	0 300	2, 160	48
Scallops:											l	
Bay	600	, 274	167	, 335	1	49, 670	43,	637	386, 58	6 107, 383	i	
Sea	47	, 940	*	, 734	4	62, 420	68,	320				
Total	34, 079	, 206	1, 603	, 512	23, 9	31, 455	1, 080,	854	4, 470, 07	7 393, 954	137, 298, 792	5, 035, 55
		N	lantu	ıcket		No	rfolk		Plym	outh	Suff	olk
Species		Pos	ınds	1701		Pound	Vol		Pounds	Value	Pounds	Value
		Pot	inas	Vai	ue	Pound	SVBI	Те	rounds	Value	- Founds	Value
Alewives						22, 500	32	225	397, 500	\$3,750		
Bluefish		3	2, 500	\$,					600	4
Bluefish Bonito Butterfish		1	4, 100	1,	128 .							
Butterfish		3	5, 250	3, 8	878						109, 640	
ButterfishCatfish and bullheadsCod						·					32,000	64
Cod		1, 12	0, 889	30,	786	11,000	3	100	100, 518	3, 525	43, 049, 167	1, 282, 89
Cunner											18, 320	55
Cusk					1-						2, 496, 642	
EelsFlounders		11	1,000	11, 1	100			==	22, 850	3, 266		
r lounders		3, 48	u, 355	164, (บอา	2, 600	7 ¹	96	7, 000	420		574, 86
Frigate mackerel			1 100		- 22 -		-	-			364, 511	17, 03
Grayfish		1 40	4, 400	00.	44 -				20 600	700	120 565 554	
			1, 989	29,					28, 600	780	130, 565, 554	
HakeHalibut			418		482			-			12, 559, 693 931, 183	
Herring, sea		i '	3, 168			17, 500		00	836, 500	6, 274		
King whiting or "kingfish"			100		8	11,000	1 *	20	000, 000	0, 214	1, 020, 210	00,10
TELLE IT LITTLE OF THE TIPE		5	100		U ~							

104, 750

12, 600 381, 950

12, 500 528, 591 35, 800

3, 139

1, 008 3, 374

1, 660

134, 159 716

13, 801, 665 4, 923, 342 88, 153

120,000

40, 000 1, 683 6, 956

48, 617

5, 955 524, 758

205, 885 1, 990, 185 395, 800 85, 001

479, 356 100, 816 1, 766

4, 80 1, 80

7

19

73

710

92, 800

6, 697 42, 170 74, 213 20, 044

37,600

5, 610

4, 350 1, 000 200

1, 800

500

115, 568

2,632

203

250

16

54

100

15, 503

45, 368 11, 689 129, 287 21, 000 420

9,000 1,650

2, 100

360

60

252

2, 290 39, 423

Fisheries of Massachusetts, 1930-Continued

CATCH: By counties-Continued

	Nantu	cket	Nor	folk	Plym	outh	Suffe	olk
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Clams:								
Cockle					17, 550	3, 025		
Hard, public					58, 000	16, 362		
Hard, private	14, 400	3,000						
Razor					128, 720			
Soft, public			54,000	5, 085	143, 600	15, 150		
Mussels							10, 800	2, 100
Oysters:		1				5925555	5.0	
Market, public, spring					770			
Market, private, spring					21, 367	8, 325		
Market, private, fall					7, 615			
Seed, private, spring								
Periwinkles					3, 258	724		
Scallops:					100 100			
Bay					192, 420	48, 310		
Sea	378	68						
Irish moss					93, 000	5, 580		
Total	6, 833, 561	365, 305	261, 927	48, 351	3, 174, 267	270, 375	232, 424, 680	7, 491, 172

Industries related to the fisheries of Massachusetts, 1930 TRANSPORTING

Item	Barnsta- ble County	Suffolk County	Total
Persons engaged on vessels	Number 2	Number 28	Number 30
Vessels, motor— 5 to 10 tons	2	2 5 2 1	4 5 2 1
Total Net tonnage	2 12	10 187	12 199

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Barnsta- ble County	Bristol County	Dukes, Middle- sex, Nan- tucket, and Norfolk Coun- ties	Essex County	Ply- mouth County	Suffolk County	Total
Establishments	27	11	4	44	8	99	193
Persons engaged: Proprietors	11	7	2	28	7	22	77
Salaried employees	27	22	4	211	6	492	762
Wage earners— Average for season Average for year	227 166	58 41	32 30	1, 172 1, 003	24 15	1, 221 1, 174	2, 734 2, 429
Paid to salaried employees	\$56, 478 196, 895	\$28, 885 53, 137	\$8, 276 38, 730	\$541, 072 1, 123, 654	\$9,380 21,817	\$1, 342, 606 1, 771, 893	\$1, 986, 697 3, 206, 126
Total salaries and wages	253, 373	82, 022	47, 006	1, 664, 726	31, 197	3, 114, 499	5, 192, 823

Industries related to the fisheries of Massachusetts, 1930-Continued WHOLESALE AND MANUFACTURING-Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Cod: Fresh fillets	3, 732, 070 1, 291, 480 6, 659, 091 567, 217 101, 980	\$538, 878 165, 447 552, 300 80, 085 81, 195
Cusk: pounds. Fresh fillets	282, 680 398, 649 867, 145	43, 067 18, 448 122, 400
Fresh fillets	1, 210, 243 309, 110	233, 664 53, 073
Fresh fillets do Frozen fillets do Salted do Finnan haddie do Smoked fillets do Canned flakes standard cases Hake:	40, 244, 170 12, 655, 276 558, 132 4, 099, 511 720, 748 20, 142	6, 300, 610 1, 974, 343 32, 781 346, 261 125, 407 202, 864
Fresh fillets pounds Frozen fillets do Salted do Smoked fillets do Halibut, frozen fillets do Herring, sea: do	2, 008, 907 335, 127 1, 800, 022 14, 000 8, 379	259, 974 45, 134 87, 789 1, 900 2, 409
Smoked— Bloaters do	1, 131, 417 179, 467	186, 258 40, 041
Fresh fillets do Salted fillets do Salted fillets do Salted Follock:	139, 012 1, 969, 626 2, 277, 667	27, 798 229, 709 190, 299
Fresh fillets do	272, 714 3, 030 2, 957, 113	35, 648 394 162, 591
Fresh fillets do Frozen fillets do Crab meat, packaged (fresh-cooked) do Lobster meat, packaged (fresh-cooked) do Clams, soft, fresh-shucked gallons Oysters, fresh-shucked do Unclassified products: do	19, 812 37, 410 169, 383 103, 716 10, 125 2, 279	3, 719 5, 241 93, 061 129, 488 16, 325 6, 305
Pounds	484, 671 664, 802 529, 612 167, 084 497, 838 11, 224	52, 184 35, 055 210, 670 1, 189, 181 1, 175, 826 722, 997 88, 601
Total		15, 869, 420

¹ Includes fresh halibut and whiting fillets; frozen cusk, mackerel, and salmon fillets; and whiting sticks.
² Includes salted alewives, herring, Bismarck herring, Scotch-cured herring, split mackerel, mackerel fillets, salmon, shad, and tongues and cheeks.
³ Includes smoked alewives, butterfish, flounders, lake trout, mackerel, salmon, shad, and whitefish.
⁴ Includes the following canned products: Cod cakes, cod balls, etc., mackerel, haddock chowder, creamed fish, finnan haddie, roe, dog food, and clam products.
⁵ Includes isinglass, dry scrap, blackfish oil, tanner's oil, and buttons and novelties from imported marine shalls

shells.

⁶ Data not available.

Industries related to the fisheries of Massachusetts, 1930—Continued FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 3,325]

Item	Quantity	Value
Alewives: Salted	120, 000 16, 500 303, 800 1, 118, 785 22, 182 10, 440 5, 220 68, 230 1, 060 129, 988 159, 000 56, 000	\$6, 200 963 7, 974 54, 340 554 131 649 2, 856 23 145, 988 395, 000 77, 000

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 2,606 have been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

RHODE ISLAND

Fisheries of Rhode Island, 1930 OPERATING UNITS: BY GEAR

1	Purse	seines	111	Gill	nets	Li	nes	Pound	Float-
Item	Mack- erel	Other	Haul seines	Drift	Run- around	Hand	Trawl	nets	ing traps
Fishermen: On vesselsOn boats and shore—	Number 24	Number 16	Number	Number 13	Number	Number 69	Number 20	Number 6	Number 130
Regular Casual			67	1 1	31	142 32	23	43	77
Total	24	16	67	15	31	243	43	49	207
Vessels: Steam— 5 to 10 tons									1 3 2
Total Net tonnage		1 45							.6 189
Motor— 5 to 10 tons	3			3		21 3	ī	2	. 1 3 1
Total Net tonnage	4 44						61	12	5 68
Total vessels Total net tonnage	4 44	1 45		4 35		24 187	8 61	12	11 297
Boats: MotorOther			2 50	1	5 14		12		12 46
Accessory boats	4	1 320	12 27 3, 110	161	12	432	s 1, 193	62	35 62
Square yards				59, 640	24, 100	587	56, 550		

U. S. BUREAU OF FISHERIES

Fisheries of Rhode Island, 1930-Continued

OPERATING UNITS: BY GEAR-Continued

						Pots			
Item	Fyke nets	Dip nets	Otter trawls	Box traps	Eel	Lob- ster	Peri- winkle	Har- poons	Spears
Fishermen: On vessels	Number	Number	Number 212		Number	Number 41	Number	Number 92	Number
On boats and shore-								1	
Regular Casual	12	14	31	5	34	308 108	14	38	35
Casual	-					108			
Total	. 13	17	244	5	40	457	20	130	37
Vessels: Steam—									
5 to 10 tons		<u> </u>	. 1						<u> </u>
11 to 20 tons			. 3						
Total			. 4						
Net tonnage			45						
Motor—			0.4			***			
5 to 10 tons 11 to 20 tons			34			18		25 5	
21 to 30 tons			ï						
'Total			44		-	19		30	
Net tonnage			380			136		249	
Total vessels			40			10		20	
Total net tonnage.			48 425			19 136		30 249	
Boats:									
Motor	7	9	18	2	19	296	8	19	1
Other	6			2	17	42 18	8	18 31	11
Apparatus:								10000	
Number	40	17	66	4	2,015	39, 165	875	49	37
Yards at mouth			1,824		1				
_		Dredges						Ву	Total, exclu-
Item	Clam	Oyster	Scallop	Tongs	Rakes	Forks	Hoes	hand	sive of dupli- cation
Fishermen:	Mumban	Mumber	Marmhan	Mumber	Number	Marmhan	A.Taum ber	Naumhan	Marmhan
On vessels	2	68							356
On boats and shore—	10		100	337	118	10	6	2	870
Regular Casual	2		81	187	38	3	4	2	403
matal.	14	68	181	524	156	13	10	4	1, 629
Total	14	08	181	524	130	13	10	4	1, 629
Vessels: Steam—					l i				
5 to 10 tons									1
11 to 20 tons		î							3
41 to 50 tons		1							3
51 to 60 tons		1							1
Total		. 3							9
Net tonnage		126							265
Motor—	,	2							50
5 to 10 tons	1	9							21
21 to 30 tons		1							2
51 to 60 tons		1							1
Total	1	13							74
Net tonnage	7	231	••••	- -					747
Total vessels	1	16							83
Total net tonnage	7	357	• • • • • • • • • • • • • • • • • • • •						1,012
Boats:			100	100	E0.		9		E70
MotorOther	5		106	180 428	50 109	13	8	1 1	578 673
Accessory boats				34					160
Apparatus: Number	6	32	532	523	156	13	10		
Number Yards at mouth	4	49	414						

Fisheries of Rhode Island, 1930-Continued

CATCH: BY GEAR

CATCH: BY GEAR																
		Purse	seir	nes									Gi	ll nets		
Species	Mack	erel		Oth	er		На	uls	eines		Drift		Run	Runarour		
Bluefish	Pounds	Value			Val	ue P	Poun	ıds	Va	lue	Pour	1ds	Valu \$30	ue Poun	ds 000	Value \$5, 360
Eels	182, 500				\$1.5	07	20,	000	1,	740 000		- 1		31, 0	- 1	
Menhaden Smelt Squeteague or "sea trout,"			114	4, 800	8	61	50,					- 1				
Striped bass Suckers							10, 32, 7,	680 000 600	1, 5,	760 152	 			5, 0		
White perch							27,	600		32 760						-
Total	182, 500	4, 750	200	0, 900	2, 3	68 3	314,	680	36,	144	135,	000	2, 6	36, 0	00	6, 110
Species			_		Lines	s 			_	P	ound	ne	ts	Floatin	1g 1	traps
			Hand			T	Trawl		_							
Albacore		Pour	ıds	Valu							unds		lue	Pounds 34, 75	9	Value \$703
AlewivesBluefishBonitoButterfish		10,	000	\$7	50					4	3, 400 1, 000	2	, 589	12, 65 158, 29 57, 43 730, 51	5	104 20, 829 4, 221 38, 755
Cod		941,	737 000 780 200	38, 8	75 1	87, 9	70	\$8,	041	1	0, 605 0, 890 1, 300 3, 100		, 962 323 26 , 385	331, 80 5, 30	8	14, 536 200
Flounders Grayfish Haddock			200		06	2, 2			110 486	8	1, 400 6, 750	4	, 003	21, 81 460, 27 7, 80 9, 38	1 :	1, 139 22, 700 156 281
Hake Herring, sea Hickory shad		15,	600	4	44	6, 0	000		175		2, 400 4, 125 200		42 875 10	9, 26 113, 91 3, 84	6	283 1, 767 75
Mackerel		15,						-		1	4, 400 6, 800 1, 000		$168 \\ 168 \\ 40$	890, 77 56 7, 39	1 0	37, 118 10 258
Pollock Scup Sea bass		l					-		100		3, 840 155		13	64, 46 1, 371, 75 35, 57	9	1, 644 62, 601 2, 148
Sea robinShadSharks								 			7, 450 347 3, 400		, 085 67 70	101, 97 67 9, 58	6	1, 230 112 146
Skates Skipper or "billfish" Smelt Squeteague or "sea trout," gra Striped bass		6,	000	-							975		180	27, 80 6, 06	8	556 1, 248
Sturgeon			100 475		95						8, 540 3, 580		, 028 568	1, 23	2	4, 214 4, 447 197
Tautog		144,	000	7, 2	20					2	8, 900 1, 000		, 339 270	62, 61 10. 18	ō	2, 865
White perch						 				29	3, 900 2, 550 2, 150	2 4	458 , 778 , 021	20 1, 360, 38 1, 393, 75	7	20 18, 528 37, 855
Total		1, 358,	802	56, 7	84 9	958, 3	350	33,	912	1, 73	4, 157	67	, 587	7, 370, 62	7 2	81, 927

Fisheries of Rhode Island, 1930-Continued

CATCH: BY GEAR—Continued

Species		F	yke	nets]	Dip	nets		Otter t	rawls	Box traps		
Cod					0.0	, 000	Valu		nunds 80, 547	Value \$3, 044	Pounds	Value	
Eels	· · · · · · · · · · · · · · · · · · ·	14,	, 500 , 000	\$1, 48	50 80			4, 1	15, 500 1, 100 88, 490	3, 320			
Hake	• • • • • • • • • • • • • • • • • • •								29, 600 20, 000 4, 500	780 1,000 45	56, 670		
Skates Swordfish Tautog White perch		14,	, 000	70	00				46, 550 3, 000		18, 000		
Whiting Scallops, bay						811	2		64, 350	5, 036			
Total	·····	41,	, 500	2, 73	30 65	5, 811	2, 2	26 5, 2	53, 637	137, 750	77, 950	2, 747	
Species						Pot	s				Harp	oons	
			E	el		Lob	oster		Periv	vinkle			
Eels		Pou 114,	Pounds Value 114, 235 \$11, 122		e Po	unds 5, 550	Va		Pounds		Pounds		
Swordfish Crabs, hard Lobsters Periwinkles					₁₆	56, 565 53, 107 33, 460	2 5.	, 256 ₋ , 550 ₋ , 940	78. 750	\$8,740		\$89, 609	
2	Total		235	11, 12	22 1, 75			, 404	78, 750			89, 609	
0			Spears						Dred	lges			
Species			ope	ars		Clam			Oys	ter	Scal	lop	
Eels		Pou 25,	nds 975	Valu \$2, 79	e Por	Pounds Value		e Po	ounds	Value	Pounds	Value	
Clams: Hard, public Hard, private Oysters:					20 56), 460 3, 100	\$3, 34 10, 20						
Market, private, spring Market, private, fall Seed, private, spring Scallops, bay	•							1, 8	31, 592 32, 128 98, 500	339, 887 392, 709 40, 750		\$40, 348	
Total				2, 79		5, 560	13, 54	45 3, 7	24, 673	789, 951		40, 348	
Species	Ton	igs		Rak	es		Fork	rs	E	Hoes	Byl	nand	
Clams: Hard, public Hard, private Soft, public	Pounds 1, 329, 064 103, 895	\$262 906	27!	5.803	\$51, 423	3				ds Value	Pounds		
Oysters: Market, public, spring. Market, public, fall Seed, public, spring Seed, public, fall	•••••	- 	. 8	8, 944 8, 944		0					133 23 361	3 2	
Total			293	3, 691	56, 72	3 20	0, 700	4, 527	7, 7	740 1, 91	5 1, 619	269	

Fisheries of Rhode Island, 1930-Continued

OPERATING UNITS: BY COUNTIES

Item	Bristol	Kent	Newport	Provi- dence	Washing- ton
Fishermen: On vessels	Number 29	Number 3	Number 256	Number 31	Number 37
On boats and shore—	=0	001	200	70	105
Regular	78 63	235 120	320 118	72 44	165 58
V00401_11					
Total	170	358	694	147	260
Vessels: Steam— 5 to 10 tons			1		
. 11 to 20 tons			3		
21 to 30 tons			2	1	
51 to 60 tons				î	
Total Net tonnage			139	3 126	
Mer rounge			109		
Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 51 to 60 tons	3 5 1	1	40 11 1	1 1	7 3
Metal .	9	1	52		10
Total Net tonnage	126	11	447	75	88
Total vessels Total net tonnage	9 126	1 11	58 586	5 201	10 88
Boats: Motor	34 108 7	178 225 1	238 140 109	23 94 31	105 106 12
Purse seines— Mackerel			3		1
Length, yards			360		200
Other			1		
Length, yards Haul seines			320	16	10
Length, yards			300	1,775	1,025
Gill nets— Drift		2	159		
Square yardsRunaround			57, 240 10		2
Square yards			2, 100		22, 000
Lines— Hand	. 8	5	307	12	100
Hooks	16	3	392	12	164
TrawlHooks			1, 113 52, 550		4,000
Pound nets		1	43		18
Floating traps			45		17
Fyke nets Dip nets	3	35	14		
Otter trawls	i		. 47		18
Yards at mouth	30		1, 339	2	455
Box traps Pots	2				
Eel Lobster	245 1, 822 225	390 1, 080	24, 736 425	225 138	810 11, 389 225
Periwinkle or cockle Harpoons, swordfish	220		44		5
Spears	. 1	7		8	21
Dredges—		3	3		
ClamYards at mouth		. 1	3		
Ovster	16	2		10	4
Yards at mouth	24 69	3 319	24	16	120
ScallopYards at mouth	54	250	17		93
Tongs	106	252	33	87	45
Rakes	5 5	72	48	1	30
ForksHoes	4	1		5	
TTOOD	1	1	1	t	I

U. S. BUREAU OF FISHERIES

Fisheries of Rhode Island, 1930-Continued

CATCH: BY COUNTIES

	Bris	tol	Kei	nt	Newp	ort	Provid	lence	Washir	ngton
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore					34, 759 66, 050				120, 000	
BluefishBonitoButterfish					173, 745 56, 389 776, 065	4, 127			66, 550 1, 050 125, 068	6, 206 94 10, 426
Cod	1, 400				1, 409, 872 71, 600	59, 130 2, 176			141,680	5, 647 320
Eels	2,000	60	12, 000	550	114, 962 3, 418, 921 1, 300 877, 028	93, 459		\$23, 894	1, 267, 650 7, 600	7, 126 52, 908 152
HaddockHake	26, 670	200	600	30	877, 028 33, 260 118, 441	944		225	9, 300 29, 600	295 780 710
Haddock Hake Herring, sea Hickory shad Mackerel Menhaden Mullet Pollock Scup Sea bass Sea robin Shad Sharks Skates					4, 049 1, 272, 571 121, 160	85 45, 958			139, 000 11, 000	5, 698
Mullet					8, 392 68, 046	298			106, 880	926
Scup. Sea bass. Sea robin.					1, 346, 590 35, 734 70, 928	2, 161 885			299, 000 123, 000	14, 610
ShadSharksSkates	1, 800	250			673 11, 480 302, 550	186			350 1, 500 377, 800	30
Skipper or "bill- fish".					6, 068 975	1		ì	50, 000	
Smelt Squeteague or "sea trout," gray, Striped bass Sturgeon,			820	99	49, 745			Į.		10, 652
SHEKETS				ř		197			7, 600	6, 842 152
Swordfish	11, 350	550	14, 200	708	545, 099 160, 085 6, 000	7,439			64, 800 124, 000 16, 600	9, 180 6, 385
Tuna or "horse- mackerel"	 			 	24, 180		8, 000	800	25, 600	2, 560
White perch Whiting Crabs, hard Lobsters Squid	49, 335	1, 416	29 744	5 202	1, 490, 537 117, 227	20, 002 3, 840 224, 591		187	426, 750 293, 556	6, 440 72, 878
C minis.	ř.					•			773, 000	16, 450
Hard, public Hard, private Soft, public	126, 528		1, 013, 639 56, 100 600	10, 200	126, 533		176, 440 39, 820 6, 300	9,050		28, 538 3, 440
Oysters: Market, public, spring			- -						8, 944	2, 650
Market, public, fall Market, pri-	135	20	•						8, 944	2, 650
vate, spring Market, pri- vate, fall		186, 082 160, 209						114, 930 158, 125		
Seed, public,	6,000		×50		23		101, 422			
Seed, public, fall Seed, private,	338				23	2				-
spring Periwinkles Scallops, bay		5, 566		19, 850	259, 686 14, 446	28, 854 4, 280			2, 430 31, 500	260 14, 875
Total	2, 291, 561	473, 682	1, 250, 835	250, 632	14, 988, 340	808, 266	1, 812, 855	344, 575	5, 628, 302	410, 115

Industries related to the fisheries of Rhode Island, 1930

TRANSPORTING

Item	Bristol County	Kent County	Newport County	Wash- ington County	Total
Persons engaged on vessels	Number 3	Number 2	Number 10	Number 4	Number 19
Vessels, motor: 5 to 10 tons	1	1	2 1	1	5 1
Total Net tonnage	1 7	1 7	3 34	7	6 55

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item.	Bristol County	Kent County	Newport County	Providence County	Wash- ington County	Total
Establishments Persons engaged:	8	8	6	9	3	34
Proprietors	6 14	9	6 13	$\begin{array}{c} 7 \\ 21 \end{array}$	7	28 58
Average for season	81 55	25 17	12 7	160 109	50 30	328 218
Paid to salaried employees Paid to wage earners	\$19, 136 58, 052	\$3, 625 26, 918	\$18, 760 8, 000	\$62, 351 124, 476	\$15, 600 35, 410	\$119, 472 252, 856
Total, salaries and wages	77, 188	30, 543	26, 760	186, 827	51, 010	372, 328

PRODUCTS MANUFACTURED

Item	Quantity	Value
Marine-shell novelties	(1) 345, 310	\$49, 454 873, 659
Miscellaneous 2	(1)	368, 112
Total.		1, 291, 22

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 401]

		ī
Scallops, bay, fresh-shuckedgallons.	8, 839	\$37, 331

¹ Data not available.

² Includes the value of oyster-shell products; fresh-shucked, hard and soft clams; and canned hard clam chowder.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 5 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 170 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

CONNECTICUT

Fisheries of Connecticut, 1930 OPERATING UNITS: BY GEAR

	Purse	seines	Haul	Gill	nets	Lines		
Item	Mack- erel	Men- haden	seines	Anchor	Drift	Hand	Trawl	
Fishermen: On vessels	Number 47	Number 60	Number	Number	Number	Number 21	Number 57	
On boats and shore— Regular Casual	. 4		16 83	4 5	62	67	13	
				-				
Total	. 51	60	99	9	62	88	70	
Vessels: Steam—								
101 to 110 tons		1		10/12				
161 to 170 tons		. 1						
Total		2						
Net tonnage		268						
Motor—	1002	ST THE						
5 to 10 tons	2 2					2		
21 to 30 tons	. 1						1	
41 to 50 tons	. 1					1	1	
51 to 60 tons 61 to 70 tons	1						1	
							ALCOHOLD STREET	
Total	171					3 63	185	
Net tonnage	1/1					03	100	
Boats: Motor	. 2		6	6	26	50	7	
Other	2		_ 29		10	3		
Accessory boats	. 14	2					41	
Apparatus: Number	9	2	28	32	230	288	1,726	
Length, yards	1,620	720						
Square yards Hooks, baits, or snoods				5, 370	22, 770	297	84, 380	
	11,111		111111111					
Item	Pound	Float- ing	Fyke	Otter		Pots		
	nets	traps	nets	trawls	Crab	Eel	Lobster	
Fishermen: On vessels	Number	Number	Number	Number 527	Number	Number 4	Number	
On boats and shore—						the variable		
Regular Casual	12	5	7 6	98	4	31	180	
150 5 00				005			184	
Total	12	5	13	625	4	36	109	
Vessels: Steam—		28 TIM	ALT THE	J. Hain	TV.			
121 to 130 tons				2				
161 to 170 tons				3 1				
171 to 180 tons				1				
201 to 210 tons				11				
261 to 270 tons				1				
Total				19 3, 675				
Net tonnage				3,073				
Motor— 5 to 10 tons		and I	A PALL	27	walte with	1	2	
11 to 20 tons				18				
21 to 30 tons				1 1				
31 to 40 tons				47		1	2	
Total Net tonnage			27727777	514		10	12	
Total vessels Total net tonnage				66 4, 189		1 10	12	
Boats:								
Motor	8	4	1 11	57	2	5 25	160	
OtherApparatus:	1		11					
Number	11	8	107	132 3, 274	160	808	16, 505	
Yards at mouth								

FISHERY INDUSTRIES OF THE UNITED STATES, 1931

Fisheries of Connecticut, 1930-Continued

OPERATING UNITS: BY GEAR-Continued

Item	Har- poons	Spears	Dredges, oyster	Tongs	Rakes	Forks	Hoes	Total, exclu- sive of dupli- cation
Fishermen: On yessels	Number 45	Number	Number 304	Number 2	Number	Number	Number	Number 952
On boats and shore— Regular Casual	16	40	12	142	30	64	6	426 152
Total	61	40	316	144	30	64	6	1,530
Vessels: Steam— 11 to 20 tons			1				1.36	1
51 to 60 tons			î					î
61 to 70 tons			2					2
71 to 80 tons			1					2 1 2 2 1 2 1 4 1
			2					2
			1					2
			1					1
								2
131 to 140 tons			1					1
161 to 170 tons								4
								1
								1
								11
								1
311 to 320 tons			1					1
391 to 400 tons			1					1
Total Net tonnage			12 1, 534					33 5, 477
Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons 51 to 60 tons 61 to 70 tons	5 3 2 1		26 10 7 4 3	1				54 28 9 5 4 1
Total	- 11		50	1				102
Net tonnage	153		781	6				1,490
Sail— 5 to 10 tons 11 to 20 tons			2 1					2
Total	- et-		3					3
Net tonnage			25					25
Total vessels Total net tonnage	11 153		2,340	1 6				6, 992
Boats: Motor Other Accessory boats	8	2 28	8	8 106	21	8 43	6	237 218 62
Apparatus: Number Yards at mouth	19	40	242 241	144	30	64	6	

U. S. BUREAU OF FISHERIES

Fisheries of Connecticut, 1930—Continued

CATCH: BY GEAR

-nime		Purs	e seines					Gill	nets	
Species	Macl	kerel	Menh	aden	Haul s	seines	Ancl	nor	Dri	ft
Bluefish	Pounds 20, 974	Value \$2, 933	Pounds	Value	Pounds	Value	Pounds 700			Value
Bonito Butterfish Carp	2, 000	3 13			13,060	\$1 356	200	20		
Croaker Mackerel Menhaden	606, 070	434 23, 636								
Minnows Mummichog Scup					29, 035 7, 134	2, 672 713				
Shad. Smelt Squeteague or "sea trout,"	200, 402				21, 722 7, 900	3, 523 1, 823	2, 250	446	29, 970	\$6, 126
Striped bass							500			
Suckers Whiting	2, 500	10								
Total	949, 646	33, 452	1, 569, 800	15, 698	108, 111	12, 268	8, 650	1, 287	29, 970	6, 126
Species	Ť	Li	nes		Dound	note	Floating	teans	Fyrles	nata
Species	Hand		Trawl		Pound	песь			Fyke	neis
Alewives	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 1,000		Pounds	Value
AlewivesBluefishButterfishCarp	221, 066	\$28, 307			8, 711 6, 738	\$1,339 897	200 3, 100	15 341		\$170
Cod Dolphin Eels			138							
Haddock Hake			46, 550	1,862		594	7, 100	426	4, 150	
Halibut Mackerel			7,755	1, 132	3 019	521			2 000	100
Menhaden Minnows Pike or pickerel	2.000				3,000		860		275	90
Pollock Scup Sea bass	13, 833	2,075	400	24	2,000	4				
Skates			3, 065	41	2,000		2,000			
Squeteague or "sea trout," gray Striped bass	804	120			4, 994 138			1, 830 100		
Swordfish	128, 324		1, 619 1, 783, 456	244	3, 021	178	4, 200	336	39,760	5, 082
Yellow perch			1, 783, 456	97,068	10,700	225			700	105
Total	366, 027	40, 155	1, 963, 440	105, 523	64, 228	6, 033	31, 660	3, 412	49, 320	4, 338

Fisheries of Connecticut, 1930-Continued

CATCH: BY GEAR-Continued

Treet part pelolitically	about 1	0,410					I	ots		
Species	Ot	ter tra	wls		Cr	ab	F	Cel	Lob	ster
Butterfish. Cod Cusk. Eels. Flounders. Haddock. Hake. Halibut. Mackerel Pollock Rosefish. Sea robin. Skates. Swordfish. Tomcod. Wolffish. Orabs, hard Lobsters.	8, 828 65 11, 146 48, 026 1, 125 55 34 40 278 1	, 141 , 829 , 241 , 733	256, 57 96 29 363, 45, 670, 75 24, 92 32, 34 20 12, 43 2 20 2, 29 22	5 5 60 -		\$4,047	64, 88	4 \$9,651		
Total.	70, 309	, 170 2	, 367, 85	51 5	202, 340	4, 047	65, 08	9,711	733, 511	229, 953
Species	Harp	oons		Spe	ars	D	redges, o	yster	То	ngs
Eels Swordfish Tuna or "horse mackerel" Clams, hard, public Oysters: Market, public, spring Market, piblic, fall Market, private, spring Market, private, fall Seed, public, spring Seed, public, fall Seed, private, spring Seed, private, spring Seed, private, spring Total			35, 35, 35, 35, 35, 35, 35, 35, 35, 35,	254		79 3, 0 3, 0 2, 5 3 3, 7 5	32, 230 43, 110 01, 805 52, 886 09, 741 61, 176	\$423, 439 386, 450 41, 405 50, 875 556, 963 77, 542 1, 536, 674	13, 495 203, 000 315, 700	\$7, 020 1, 743 3, 823 3, 073 29, 000 37, 223
Species	-				Rak	es	Fo	rks	Н	oes
Clams: Hard, public Soft, public Oysters: Seed, public, spring Seed, public, fall		 		1-3	unds 800 7, 150 4, 000 6, 820	Value \$400 5, 430 2, 000 4, 208	Pounds 1, 888 37, 905	6, 224	800 6, 675	1, 33
Total				7	8,770	12,038	39, 793	6, 988	7,475	1,73

Item	Fairfield	Hartford	Middle- sex	New Haven	New London
Fishermen: On vessels	Number 187	Number	Number	Number 188	Number 577
On boats and shore— Regular Casual	126 15	57	50 61	69	181 19
Total	328	57	111	257	777

Fisheries of Connecticut, 1930-Continued

OPERATING UNITS: By counties--Continued

Item	Fairfield	Hartford	Middle- sex	New Haven	New London
Vessels: Steam—	Number	Number	Number	Number	Number
11 to 20 tons	1				
51 to 60 tons	1				
61 to 70 tons 71 to 80 tons	1			1	
91 to 100 tons	î			1	
101 to 110 tons				1	1
111 to 120 tons	1				
121 to 130 tons 131 to 140 tons	1				2
161 to 170 tons	1				4
171 to 180 tons					Sanda Ti
181 to 190 tons					Land and
201 to 210 tons				1	10
261 to 270 tons 311 to 320 tons				1 1	
391 to 400 tons				1	
000 00 00000000000000000000000000000000					
Total.	7			7	19
Net tonnage	556			1, 455	3, 466
Motor—					
5 to 10 tons	25			10	19
11 to 20 tons	5 3			7	16
21 to 30 tons	. 2			4 2	1
41 to 50 tons	3				i
51 to 60 tons					1
61 to 70 tons					1
Total	38	10000		23	41
Net tonnage	531			348	611
Sail— 5 to 10 tons.	2	30.50		311015	at wealth
11 to 20 tons	1				
Total	3				
Net tonnage	25				
Total vessels	48			30	60
Total net tonnage	1, 112			1,803	4, 077
Boats:					
Motor	29	4	44	41	119
Other	84	17	33	31	53
Accessory boats	1				61
Apparatus: Purse seines—	1				
Mackerel			olane		9
Length, yards					1,620
Menhaden					2
Length, yardsHaul seines	3	10			720
Haul seines Length, yards	250	10 1, 200	8 850	180	230
Gill nets—	200	1,200	000	100	200
Anchor			30		2
Square yards			2,970		2, 400
Drift		6	17 820		44
Square yards Lines—		594	17,820		4, 356
Hand	22		73	20	173
Hooks.	30		74	20	173
Trawl					1,726
HooksPound nets					84, 380
Floating traps				1	10
Fyke nets.		56	16	12	23
Otter trawls	11		11	19	23 91
Yards at mouth	230		220	410	2, 414
Pots— Crab					160
Eel	141		40	262	365
Lobster	2, 565		1, 485	3,640	8, 815
Harpoons, swordfish	1		1		17
Spears	12			5	23
Dredges, oyster	185			57	
Yards at mouth Tongs	166 81		19	75 19	25
Rakes	18		19	12	20
	3		4	9	48
Forks	0			6	10

Fisheries of Connecticut, 1930—Continued

CATCH: BY COUNTIES

	Fairf	ield	Harti	ord	Middl	lesex	New H	aven	New L	ondon
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	890	\$178			40, 841	\$6, 126	4, 329	\$880	1,000 205,600	\$30 25, 486
Rutterfish	and the second						6, 420	715	116 29, 759	3, 058
Carp	5 000	250	4, 660	\$466	12,000	1,320	381, 125	11, 363	1,335	247, 450
CarpCodCroaker	3,000	330							1, 335 8, 529, 104 10, 780 61, 230	434
Cusk							4, 011	123	61, 230 138	83
Eels	27, 100	3,055	2, 100	315	6, 500	1, 160	25, 229 752, 070	3, 822	77, 800	9, 71
Dolphin Eels. Flounders. Haddock. Hake. Halibut. Mackerel. Menhaden. Minnows. Mummichog Pike or pickerel. Pollock. Rosefish.	343, 600	17, 181			173, 355	8, 963	752, 070 4, 660, 167	31, 836	77, 800 9, 895, 181 43, 412, 507 1, 058, 121 173, 322	306, 49
Hake							79, 581	2, 696	1, 058, 121	22, 516
Halibut							9, 588	2, 034	173, 322	31, 438
Mackerel Menhaden							205 2, 000	15 100	615, 421 1, 573, 660	31, 438 24, 35 15, 76
Minnows					25, 000	2,000	3, 750	665	1, 285	5
Mummichog					2, 134	213	5,000	500	275	4
Pollock					2,000	80	88, 689	1,965	454, 677	10, 47
Rosefish							3, 528	25	285, 452	5, 69
SeupSea bassSea robin	13, 333	2,000					520	79	400	24
Sea robin			10.500	2 100	00 141	E 600			41, 056 6, 211	20° 1, 30°
ShadSkates	15, 804	216	19, 590	3, 188	20, 141	5,600	58, 430	794	209, 599	1, 34
Skates	5, 500	1, 375	September 1						4, 400	
Squeteague or "sea trout," gray Striped bass		100			804	120	300	60	42, 148	3, 64
Striped bass									1.638	18.
Suckers	18 667	2.800	26, 140	2, 090	36, 500 1, 500	2,790	1, 875	225	6, 380 202, 254 94, 300	38 32, 41
Swordfish Tautog	17, 084	1, 492			17, 540	1, 161	6, 621	529	94, 300	6, 90
L'Hensh	200								1, 783, 456	97, 06
Tomcod Tuna or "horse										
mackerel''									5, 400	32
Wolffish							5, 356	78	2,500 31,500	42
Yellow perch									700 203, 528	10 4, 05
Lobsters	84, 970	33, 147			68, 910	24, 118	126, 004	46, 482	454, 828	126, 51
Tuna or "horse mackerel" Whiting Wolffish Yellow perch Crabs, hard Lobsters Squid									10, 700	22
Hard, public						1	9,528	4,764	1,440	54
Soft, public	6, 460 6, 000	1, 200			1,725	345	36, 525	7, 305	27, 480	4, 13
Oysters: Market, public,	-									
spring									5, 135	1,74
Market, public,					17, 243	2, 925	4, 498	900		
Market, pri-	0 000 040				1			09 155		
vate, spring Market_ pri-	2, 660, 949						371, 281			
Market, pri- vate, fall	1, 702, 427	245, 027			2, 249	450	851, 929	144, 048		
Seed, public, spring	508, 305	70.905					10,500	1,500		
Seed, public,										
fall Seed, private,	792, 806			1			1			
spring	2, 278, 283	308, 977					1, 431, 458	247, 986		
Seed, private,	279, 076	33, 567					282 100	43 975		
Total	8, 766, 454	1, 175, 602	52, 490	6,059	436, 442	57, 536	9, 235, 208	776, 400	69, 521, 816	2, 502, 98

Industries related to the fisheries of Connecticut, 1930 TRANSPORTING

Item	Fairfield County	New Haven County	Total
Persons engaged on vessels	Number	Number	Number
	45	27	72
Vessels: Steam— 11 to 20 tons. 61 to 70 tons.	<u>i</u>	1 1	1 2
Total	1	2	3
	65	85	150
Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons. 111 to 120 tons.	5 1 1 1	3	5 4 1 1
Total	9	4	13
Net tonnage	178	127	305
Total vessels	10	6	16
	243	212	455

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Fairfield County	New London County	New Haven County	Tolland County	Total
Establishments:	7	9	11	6	33
Persons engaged: Proprietors Salaried employees	9 7	6 30	14 10	11 6	40 53
Wage earners— Average for season————— Average for year————————————————————————————————————	87 54	310 291	166 75	340 274	903 694
Paid to salaried employees Paid to wage earners	\$42, 908 69, 697	\$105, 636 363, 595	\$68, 926 87, 649	\$38, 121 273, 788	\$255, 591 794, 729
Total salaries and wages	112, 605	469, 231	156, 575	311, 909	1, 050, 320

PRODUCTS MANUFACTURED

Item	Quantity	Value
Marine-shell buttons gross_ Oysters, fresh-shucked gallons_ Miscellaneous ¹	1, 315, 173 226, 297 (²)	\$980, 651 563, 674 1, 172, 564
Total.		2, 716, 889

¹ Includes fresh haddock fillets; frozen cod, flounder, haddock, hake, halibut, pollock, and salmon fillets frozen whiting sticks; smoked haddock fillets; frozen scallops; menhaden products; oyster-shell products fish meal; and marine-shell novelties.

² Data not available.

Note.—Of the total number of persons employed on transporting craft, 3 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VESSEL FISHERIES AT THE PRINCIPAL NEW ENGLAND PORTS 5

ECONOMIC ASPECT

The landings of fishery products at the three principal New England ports (Boston and Gloucester, Mass., and Portland, Me.), by vessels of 5 net tons and over, during 1931, amounted to 263,684,584 pounds as landed, valued at \$9,249,257. This is a decrease of 25 per cent in the quantity of the catch as compared with 1930, and a decrease of 28 per cent in the value of the catch. Of the total landings, 99 per cent consisted of fresh fish and 1 per cent of salted fish. landings at Boston accounted for the largest amount landed at the three ports in 1931, accounting for 219,945,003 pounds, valued at \$7,906,494, or 84 per cent of the total quantity. This is a decrease of 23 per cent in amount and 27 per cent in value as compared with 1930. Landings at Gloucester in 1931 amounted to 24,849,803 pounds, valued at \$775,823, or 9 per cent of the total quantity. This is a decrease of 48 per cent in amount and 42 per cent in value as compared with the previous year. Landings at Portland amounted to 18,889,778 pounds, valued at \$566,940, or 7 per cent of the total landings. This is an increase of 4 per cent in the quantity and less than one-half of 1 per cent in the value as compared with 1930.

Among the landings of fresh fish, haddock outranked other species in volume landed, the amount of all sizes in 1931 being 132,845,465 pounds, or 51 per cent of the total fresh fish. This is 30 per cent

less than the amount landed in 1930.

Landings by fishing vessels at principal New England ports, 1931

BOSTON: BY MONTHS

The second secon	Janu	ary	Februa	ary	March		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
Cod, fresh:	Mark L	1.5	-				
Large	1, 739, 505	\$62, 786	2, 144, 428	\$96, 430	5, 481, 845	\$133, 137	
Market	1, 805, 664	49, 367	1, 339, 248	44, 478	1, 872, 055	46, 948	
Scrod	41, 390	365	500	8	5, 200	90	
Haddock, fresh:	1						
Large	9, 433, 050	442, 167	12, 381, 077	497, 861	14, 994, 510	544, 977	
Scrod	279, 905	6, 901	425, 490	10,658	415, 707	9, 319	
Hake, fresh:							
Large	759, 955	23, 717	718, 920	25, 980	616, 200	23, 758	
Small.	1,500	68			4, 220	118	
Pollock, fresh	608, 815	10, 763	463, 025	15, 351	357, 220	11, 031	
Cusk, fresh	582, 070	13, 191	439, 020	11, 707	544, 765	11, 892	
Halibut, fresh	58, 333	12, 753	170, 545	30, 547	248, 503	47, 914	
Flounders, fresh	934, 110	60, 980	861, 988	53, 976	903, 553	49, 948	
Other, fresh	205, 593	5, 213	236, 234	6, 067	328, 362	8, 642	
Total, fresh	16, 449, 890	688, 271	19, 180, 475	793, 063	25, 772, 140	887, 774	
Landed in 1930: Fresh	20, 794, 385	1, 062, 808	23, 914, 328	943, 530	29, 136, 729	1, 279, 861	

⁵ With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure," which gives in detail methods for collecting statistics, compilation practices and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Landings by fishing vessels at principal New England ports, 1931—Continued BOSTON: BY MONTHS—Continued

Gt	Apr	il	Ma	У	Jur	ne	Ju	ly
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:	F. A.	Sorre	sugna s	of their	and a state			
Large	2, 587, 710	\$58, 305	1, 630, 677	\$47, 205	1, 805, 215	\$60, 170	1, 804, 608	\$55, 1
Market	1, 471, 670	24, 146	1, 555, 230	27, 559	2, 032, 237	44, 388	3, 126, 495	52, 6
Scrod	10, 700	113					8, 200	To Donald
Cod, salted, large			8, 290	269				
Haddock, fresh:			0. 191				-T.M. 433.4	1117/128
Large		243, 846	9, 979, 125					
Scrod	476, 825	4, 371						
Hake, fresh, large		6, 067						4, 1
Pollock, fresh		5, 114		3, 490				
Cusk, fresh		4, 117		4, 130				
Halibut, fresh		55, 251	395, 042	48, 943				
Mackerel, fresh		9, 454				147, 474		181, 7
Flounders, fresh	700, 800	23, 653	985, 685	21, 232				20, 98
Swordfish, fresh	296, 783	4 050	004 000		196, 575			134, 08
Other, fresh	296, 783	4, 059	294, 693	5, 394	215, 287	4, 491	136, 117	5, 24
Total, fresh	19, 606, 998	438, 496	18, 028, 617	514, 462	18, 675, 995	664, 482	19, 650, 407	720, 43
Total, salted	-		8, 290	269				
Grand total	19, 606, 998	438, 496	18, 036, 907	514, 731	18, 675, 995	664, 482	19, 650, 407	720, 43
Landed in 1930:	(f. d. III)	1251	HV. 901	THE THE	DO 1997	TOTA	ad-odo	mark
Fresh	27, 700, 507	782, 318	23, 578, 286	635, 507	24, 210, 764	932, 343	30, 404, 936	1, 055, 98
Salted							42, 700	1, 83
Total	27, 700, 507	782 318	23, 578, 286	635 507	24 210 764	039 343	20 447 626	1 057 99

	Augu	ıst	Septen	nber	Octol	ber
Species	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:	Little State					
Large	1, 309, 297	\$53, 810	1, 481, 042	\$61, 867	1, 709, 983	\$68, 99
Market						
Scrod						
Cod, salted, large			4, 400			
Haddock, fresh:	0.0.5					
Large	6, 484, 560	263, 706	6, 918, 270	299, 075	6, 074, 825	314, 62
Scrod		9, 654				
Holzo froch:		-,	2, 001, 000	-0,000	-, -00, 000	
Large	241, 220	3, 587	236, 135	4, 724	642, 605	13, 508
Small	211, 220	0,001	2,000			9'
Pollock, fresh		5, 179				7, 89
Cusk, fresh						4, 525
Halibut, fresh				13, 238		16, 150
Mackerel, fresh				137, 532		52, 02
		213, 014	3, 000	120		52, 02
Mackerel, salted		18, 733		30, 842		42, 410
Flounders, fresh				80, 952		4, 97
Swordfish, fresh	5, 700	142		00, 902	10, 021	4, 511
Herring, fresh	110 200			3, 255	109, 601	6, 04
Other, fresh	118, 368	4, 004	00, 017	3, 200	109, 001	0, 04
Total, fresh	10 054 000	707 405	10 004 010	745 595	16, 498, 909	670, 310
Total, iresn	19, 054, 222	101, 400		745, 525 291	10, 490, 909	670, 510
Total, salted			7, 400	291		
Grand total	10 054 999	707 405	18, 092, 018	745 916	16 400 000	670 21
Grand total	19, 004, 222	101, 400	10, 032, 010	140, 010	10, 100, 900	070, 31
T 3-3 :- 1090:	(A. 21 Sept. 18)				of selection and	
Landed in 1930:	24, 726, 124	938, 855	90 793 655	020 819	20, 135, 688	937 810
Fresh	2, 000	80	20, 120, 000	040, 014	20, 100, 000	001, 01
Salted	2, 000	00				
Total	94 798 194	038 035	29, 723, 655	020 812	20 135 688	937 816
Total	24, 120, 124	900, 900	20, 120, 000	020, 012	20, 100, 000	001, 01
					THE RESERVE OF THE PARTY OF THE	

Note.—The weights of fresh and salted fish given in these statistics represent the fish as landed from the vessels, and the values are those received by the fishermen. Large cod are classified as those weighing over 10 pounds; market cod, 2½ to 10 pounds; and scrod cod, 1 to 2½ pounds. Large haddock are those weighing over 2½ pounds and scrod haddock, 1 to 2½ pounds. Large hake are those weighing over to pounds and small hake, under 6 pounds. Only landings by vessels having a capacity of 5 net tons of greater are used in this tabulation.

Landings by fishing vessels at principal New England ports, 1931—Continued BOSTON: BY MONTHS—Continued

	Noven	aber	Decen	iber		To	tal,	1931		976		193	30	
Species	Pounds	Value	Pounds	Value	1	Pound	ls	Valu	1e	P	oun	ds	Val	ue
Cod, fresh:	7 Peg.		Cog Sil	But The										
Large	1, 271, 234	\$54 485	967 085	\$41,729	25	3, 932,	620	\$794,	081	94	068.	140	\$002	3, 288
Market	2, 367, 975					5, 730,					211,			0.620
Scrod.	74, 130		48, 630	874	-	244.	345		882		110	505		2, 776
Cod, salted, large	11, 100	1, 222	10,000	01.1		12.			440		110,	000		2, 110
Haddock, fresh:						12,	030		440					
Large	5, 474, 213	262 073	4, 379, 165	230 048	106	8.098	345	2 810	579	150	976	030	5 926	500
Serod	3, 804, 210		3, 578, 040	63 809	100	1 258	305	261.			821.			6, 169
Hake, fresh:	0, 001, 210	00, 110	0, 010, 010	00, 002	1.3	1, 200,	090	201,	010	٠,	021,	944	196	, 108
Large	959, 845	14, 719	462, 230	11, 034		5, 860,	015	142,	900	19	614.	940	994	3, 873
Small	3, 600					43,			144			375		1, 534
Pollock, fresh	601, 580					5, 027,			717		671,			i, 934
Cusk, fresh	296, 450				1 5	3, 447,	001		290		411.), 134
Halibut, fresh	32, 815					2, 309,	031	341,			510.			2, 238
Mackerel, fresh	202, 752					9, 855,		889,			637,		407	, 200
	202, 752	10, 200	14, 918	8, 270	15		000	009,	120					
Mackerel, salted Flounders, fresh	1, 128, 105	38, 336	744, 925	39, 256		9, 493,		420,				700		, 915
				39, 236							095,			6, 412
Swordfish, fresh	450	155				1, 526,		399,	142	٥,	078,	274	000	, 922
Herring, fresh		0.041					700				011	000		
Other, fresh	98, 543	3, 841	60, 081	2, 546	_ 2	2, 165,	179	59,	434	2,	614,	929	- 88	, 446
Total, fresh	16, 315, 902	535, 637	12, 611, 140	459, 985	219	9. 929.	313	7, 905.	934	285.	212.	778	10. 868	8. 671
Total, salted	-0, 010, 002	000,000	, 0,	200, 000		15,			560			700		, 915
Total, Salecu				101.7757	_	10,	000		000		11,	100		, 010
Grand total	16, 315, 902	535, 637	12, 611, 140	459, 985	219	9, 945,	003	7, 906,	494	285,	257,	478	10, 870	, 586
Landed in 1930:	E NEC	AT ST	364 173	192-111										
Fresh	16, 151, 607	662, 030	14, 735, 769	707, 802		S				285.	212.	778	10, 868	671
Salted	, , , , , , , , , , , , , , , , , , , ,									,		700		, 915
		-			_		-		_			_	_	_
Total	16, 151, 607	662, 030	14, 735, 769	707, 802						285,	257,	478	10, 870	, 586

GLOUCESTER: BY MONTHS

r and a standard of the	Janus	ary	Febru	ary	Mar	ch	Apr	il
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lod, fresh:	Transfer			1,5				
Large Market Scrod	154, 356 15, 840 3, 855	\$8, 197 431 42	119, 875 9, 790 1, 955	\$7, 585 317 28	929, 775 37, 875 140	\$22, 732 514 2	771, 155 128, 400	\$17, 743 1, 884
Jod, salted: Large Market							110, 610 6, 479	4, 225 191
Haddock, fresh: Large Scrod Hake, fresh, large	164, 030 3, 695 71, 395	8, 990 78 1, 838	278, 495 7, 760 52, 910	12, 972 131 1, 729	353, 505 5, 760 15, 008	13, 801 107 358	2, 222, 845 19, 200 11, 640	47, 952 312 135
Take, salted, large 'ollock, fresh	329, 905	6, 305	21, 055	800	4, 275	58	275 15, 740	124
ollock, salted	1, 230 35	23	445	9	625 18	13	30, 545 4, 695	356 704
Halibut, fresh	99, 285 1, 441, 368	4, 545 51, 915	76, 510	3, 803	74, 920	3, 796	47, 040	2, 396
Herring, salted Other, fresh	24, 292	189	18, 135	130	9, 870	102	8, 055	54
Total, fresh Total, salted	867, 918 1, 441, 368	30, 642 51, 915	586, 930	27, 504	1, 431, 771	41, 486	3, 259, 315 117, 481	71, 660 4, 422
Grand total	2, 309, 286	82, 557	586, 930	27, 504	1, 431, 771	41, 486	3, 376, 796	76, 082
Landed in 1930: Fresh Salted	2, 210, 932 1, 563, 576	93, 240 58, 794	1, 774, 509	61, 639	1, 328, 629	61, 035	3, 466, 894 69, 015	100, 172 3, 420
Total	3, 774, 508	152, 034	1, 774, 509	61, 639	1, 328, 629	61, 035	3, 535, 909	103, 592

Landings by fishing vessels at principal New England ports, 1931—Continued GLOUCESTER: BY MONTHS—Continued

Species	Ma	У	Jun	ie	Jul	y
Species	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:	7 7 7 1 1 1 1 1		olay guar	William P		1
Large	908, 545	\$26,020	359, 095	\$10,902	444, 830	\$12, 1
Market	222, 546	2, 945	73, 290	1, 116	216, 635	3, 2
Scrod	100	1	175	2	400	
Cod, salted: Large Market Market	A STATE OF THE PARTY OF THE PAR	an appear	P. C.			11
Large	246, 590	8, 627	118, 455	4, 110	107,650	3, 7
Market	15, 140	379	17, 520	396	11, 285	2
Haddock, Hesti.						
Large	650, 720	14, 016	224, 335	6, 569	430, 420	9, 2
Scrod	2, 450	20	6, 100	50	27, 545	1
Haddock, salted, large	675	10				
Hake, fresh, large	12, 255	116	43, 625	711	48, 780	4.
Hake, salted, large	245	5			1, 145	
Pollock, fresh	101, 390	1,061	51, 560	1, 142	8, 860	1000
Pollock, salted	520	12	100	2	320	HI WOUL
Cusk, fresh	9, 305	97	19, 450	224	26, 095	2
Cusk, salted		4	1, 615	31	2, 180	
Halibut, fresh			2, 375	351	47, 789	4, 5
Halibut, salted	040 145		000 005	11 500	145	00 -
Mackerel, fresh		8, 086	296, 965 10, 470	11, 562	548, 090	20, 1
Mackerel, salted			27, 750	807	20 140	
Flounders, fresh	1, 595	78		687	38, 140	1, 3
Swordfish, fresh	445	9	1, 980 2, 450	40	4, 593	1, 2
Other, fresh	445	9	2, 450	40	2, 685	
Total, fresh	2, 149, 496	52, 449	1, 109, 150	34, 163	1, 844, 862	52, 81
	263, 360	9, 037	148, 160	5, 063	122, 725	
Total, salted	203, 300	9, 007	140, 100	0,005	122, 725	4, 07
Grand total	2, 412, 856	61, 486	1, 257, 310	39, 226	1, 967, 587	56, 89
Landed in 1930:	- 1.000	AL SOAN ARE	The State of		7.00	141 4 179
Fresh	4, 892, 302	111,667	2, 670, 552	77, 462	7, 728, 185	153, 48
Salted	279, 715	13, 380	178, 142	8, 677	175, 055	8, 35
Total	5 172 017	125 047	9 848 694	86 130	7 002 240	101 00

	Augu	ust	Septer	nber	Octo	ber	Nover	nber
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:			THE PARTY					
Large	87, 295	\$1,912	258, 473	\$10, 292	397, 025	\$21,774	120, 633	\$5, 40
Market	86, 560	1,320	44, 220	872	12, 735	331	46, 971	1, 20
Scrod	175	2	,	-	2, 485	48	990	1, 20
Cod, salted:		1 1 1 1 1 1 1 1			-, 100		000	-
Large	346, 077	12,097	61, 530	2, 153	37, 920	1,328	- 11- 11-	1 500
	147, 853	3, 697	2, 175	55	1, 080	31		
Market	5, 645	85	2, 110	.00	1,000	01		
Scrod	0,040	00						
Haddock, fresh:	050 000	0.000	017 100	0.004	00 000			112 839
Large	252, 630	9, 393	215, 120	8,064	23, 660	1, 289	12, 808	78
Scrod	37, 780	362	89, 885	1, 124	2, 330	52	20	ON THE
Haddock, salted, large	135	2						
Hake, fresh:							STATE AND LINE	
Large	21,000	179	99, 880	1, 983	97, 462	1,890	95, 940	1, 49
Small							1, 130	1
Hake, salted, large	1, 200	12	THE SELECT	L. J. W. L. S.	2, 235	28	Local Supplement	Just 613
Pollock, fresh	9, 575	63	56, 430	719	288, 407	3, 336	461, 951	4, 59
Pollock, salted	105	1	100	1		0,000	202,002	1,00
Cusk, fresh	27, 910	325	13, 325	161	5, 525	80	5, 525	7
Cusk, salted	765	15	10, 020	101	55	1	0,020	SKAINS
Halibut, fresh	100	10			450	36	70	1
					100	10	10	1
Halibut, salted	2, 886, 995	95 949	1 001 749	27 000			000 007	45 00
Mackerel, fresh		85, 842	1, 981, 742	67, 089	318, 899	18, 434	863, 627	45, 02
Mackerel, salted	36, 159	1, 447	5, 700	239				
Flounders, fresh	39, 560	1, 512	12, 645	624	11,850	469	5, 435	20
Swordfish, fresh			4, 047	793				
Herring, fresh					79, 700	684		
Other, fresh	2, 790	111	220, 500	2, 559	33, 727	1, 215	122, 736	5, 27
Total, fresh	3, 452, 270	101, 021	2, 996, 267	94, 280	1, 274, 255	49, 638	1, 737, 836	64, 10
Total, salted	537, 939	17, 356	69, 505	2, 448	41, 390	1, 398		
Grand total	3, 990, 209	118, 377	3, 065, 772	96, 728	1, 315, 645	51, 036	1, 737, 836	64, 10
Landed in 1930:	When Care (c.)	1000		1475-1431				11370
Fresh	3, 414, 305	87, 790	6, 099, 035	145, 377	2, 326, 872	83, 902	6, 222, 155	155, 39
Salted	307, 693	14, 832	779, 080	42, 792	344, 683	17, 839	0, 222, 100	100,00
Daited	501, 035	14, 002	110,000	12, 102	011, 000	11,009		
Total	3, 721, 998	102, 622	6, 878, 115	100 100	2, 671, 555	101 741	6, 222, 155	155, 39

Landings by fishing vessels at principal New England ports, 1931—Continued GLOUCESTER: By MONTHS—Continued

The state of the s	Decem	ber	Total,	1931	198	30
Species	Pounds	Value	Pounds	Value	Pounds	Value
od, fresh:						The state of
Large	119, 855	\$6,829	4, 670, 912	\$151, 511	7, 145, 692	\$270, 927
Market	2, 395 165	60	897, 257 10, 440	14, 215 159	2, 262, 190 21, 370	46, 763 227
od soltad:			10, 410	100	21, 510	221
Large			1, 028, 832	36, 262	1, 335, 845	71, 853
Market			201, 532	5, 015	534, 122	26, 350
Scrod			5, 645	85	201, 454	8, 704
addock, fresh: Large	18, 655	1,042	4, 847, 223	134, 093	12, 782, 802	363, 290
Scrod	5, 225	53	207, 750	2, 485	673, 713	9, 321
addock, salted, large			810	12		
ake, fresh: Large	26, 480	597	596, 375	11, 480	1, 613, 113	00 050
Small.		997	1, 130	11, 480	17, 185	29, 252 376
ake, salted, large			5, 100	66	4, 230	79
ake, salted, large ollock, fresh	47, 955	1,053	1, 397, 103	19, 313	8, 376, 338	141, 650
ollock, salted			1, 262	24	3, 155	71
usk, fresh	1,010	13	140, 990 4, 805	1, 674 93	375, 015 18, 052	5, 937 438
usk, saltedalibut, fresh		6	55, 469	5, 632	22, 505	3, 169
alibut, salted			245	30	2, 995	532
ackerel, fresh	161, 910	17, 314	7, 298, 373	273, 477	9, 068, 868	255, 557
ackerel, salted			52, 329	2, 210	33, 530	1, 271
lounders, fresh	33, 945	1, 657	468, 675 10, 620	21, 199 2, 690	1, 011, 189 2, 773	47, 586 673
wordfish, fresherring, fresh	125,000	3,000	204, 700	3, 684	77, 400	774
erring, salted	845, 508	28, 674	2, 286, 876	80, 589	1, 563, 576	58, 794
ther, fresh	9, 665	46	455, 350	9, 813	212, 355	4, 493
Total, fresh	552, 297	31,672	21, 262, 367	651, 437	43, 662, 508	1, 179, 995
Total, salted	845, 508	28, 674	3, 587, 436	124, 386	3, 696, 959	168, 092
Grand total	1, 397, 805	60, 346	24, 849, 803	775, 823	47, 359, 467	1, 348, 087
anded in 1930:	and in the same	20.002				
FreshSalted	1, 528, 138	48, 838			43, 662, 508 3, 696, 959	1, 179, 995 168, 092
Total	1, 528, 138	48, 838			47, 359, 467	1, 348, 087

PORTLAND: BY MONTHS

				- 8	CAN STATE			
pril	Apr	ch	Mar	ary	Februa	ary	Janu	
s Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Species
			918.3		Trucor		NO. T	Cod, fresh:
05 \$29,013	1, 132, 605	\$15,814	493, 045	\$3, 735	80,672	\$4, 485	106,656	Large
30 1,495	83, 380	1,811	78, 022	1, 169	37, 211	1, 242	50, 156	Market
80 8	980	20	2,058	26	2, 535	44	4, 420	Scrod
The second second				Market and			1 115	Haddock, fresh:
	4, 569, 238	26, 120	973, 882	12, 596	263, 177	17, 257	311, 374	Large
10 28	2, 840	128	13, 012	83	8, 240	109	10, 782	Scrod
-11		V. 4.00		P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			64477	Take, fresh:
	7, 665	682	23, 693	473	16, 335	1, 279	44, 060	Large
	35, 725	1,089	41,667	1,895	59, 745	2, 762	101, 352	Small
	82, 725	421	23, 185	426	18, 726	383	40, 329	ollock, fresh
	109, 670	2,630	119, 255	2, 187	77, 347	2, 213	92, 081	lusk, fresh
	24, 120	865	4, 366	86	361	137	582	Halibut, fresh
	49, 362	908	33, 778	1,390	30, 190	857	27, 792	flounders, fresh
01 666	48, 191	1,082	49, 054	1, 007	39, 301	1, 015	43, 569	other, fresh
144, 198	6, 146, 501	51, 570	1, 855, 017	25, 073	633, 840	31, 783	833, 153	Total, fresh
67, 446	2, 786, 216	30, 561	834, 017	53, 711	1, 456, 416	26, 072	574, 142	anded in 1930: Fresh
.6	2, 786, 216	30, 561	834, 017	53, 711	1, 456, 416	26, 072	574, 142	anded in 1930: Fresh

Landings by fishing vessels at principal New England ports, 1931—Continued PORTLAND: By Months—Continued

	Ma	у	Jun	e	July	
Species	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:						
Large Market Scrod	157, 561 73, 457 1, 825	\$4, 897 1, 202 16	187, 154 16, 245 1, 251	\$8, 621 323 13	264, 914 26, 054 1, 030	\$11, 796 552 9
Cod, salted: Large. Market Scrod			4, 450 2, 340 115	156 59 2	4, 275	146
Haddock, fresh: Large Scrod	376, 912 2, 092	7, 536 21	96, 472 2, 678	4, 391	142, 704 7, 880	5, 891
Hake, fresh: Large	9, 970	155	15, 035	156	6, 832	100
Small Pollock, fresh	41, 395 45, 805	550 459	45, 222 45, 255 6, 977	496 428 106	51, 572 100, 466	682 987 117
Cusk, fresh	81, 305 9, 466 12, 925	1, 378 1, 420 777 611	32, 764 84, 105 5, 775	3, 856 3, 283 168	9, 683 51, 623 88, 296 28, 502	6, 708 3, 783 998
	18, 452		16, 388 108, 530	4, 830 1, 086	90, 022 400	25, 061
Other, fresh	31, 410	673	17, 751	339	42, 466	917
Total, fresh	862, 575	19, 695	681, 602 6, 905	28, 120 217	912, 444 4, 275	57, 691 146
Grand total	862, 575	19,695	688, 507	28, 337	916, 719	57, 837
Landed in 1930: Fresh. Salted.	2, 616, 242 13, 105	63, 429 556	1, 445, 677	44, 159	2, 626, 869 665	90, 496 13
Total	2, 629, 347	63, 985	1, 445, 677	44, 159	2, 627, 534	90, 509

	Augr	ıst	Septer	nber	Octo	ber	Novem	nber
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:								
Large	246, 639	\$11,558		\$10,674	262, 588	\$11,767	99, 001	\$4, 545
Market	13, 269	265	11, 716	247	45, 565	912	41, 930	911
Scrod	1, 260	11	1, 480	13	4, 430	36	6,900	67
Cod, salted:								1.672.0
Large		319	23, 725	889	55	2		
Market	1,010	27	2, 700	68	20	1		
Haddock, fresh:							*** ***	
Large		7,018	110, 959	5, 789	175, 322	9, 019	161, 996	8, 955
Scrod	7, 235	69	4, 342	44	8, 485	76	3, 136	42
Hake, fresh:			10.000	001		0.00	-0 0ex	000
Large		79	16, 282	261	67, 550	958	59, 961	832
Small	53, 623	567	49, 315	815	194, 281	2, 795	161, 568	1, 928
Hake, salted, small Pollock, fresh	155	790	100 020	7 074	294, 173	3, 058	188, 463	949
Pollock, salted	80, 037	190	109, 938	1, 054	10	3, 008	188, 493	949
Cusk, fresh	2, 917	49	10, 200	185	72, 745	1, 147	57, 527	786
Cusk, salted	2, 317	40	200	3	12, 140	1, 141	01,021	100
Halibut, fresh	58, 126	8, 665	19, 680	2,622	2, 033	269	825	149
Mackerel, fresh		37, 146	672, 095	13, 516	12, 631	867	11, 847	649
Mackerel, salted	9, 555	113	012,000	10, 010	14,001	001	11,011	010
Flounders, fresh		1,006	31, 848	1,028	37, 877	1, 204	3, 945	163
Swordfish, fresh		20, 741	26, 426	5, 794	01,011	1, 201	0, 010	100
Herring, fresh	47, 600	494	193, 100	1, 272	295, 200	1,724	22,600	90
Other, fresh	185, 383	3, 135	23, 029	403	70, 363	1, 334	42, 620	836
	200,000	-, 200	20,020		.0,000	-,	, 0-0	
Total, fresh	2, 403, 087	91, 593	1, 501, 536	43, 717	1, 543, 243	35, 166	862, 319	20, 902
Total, salted	19,850	460	26, 625	960	85	3		
Grand total	2, 422, 937	92, 053	1, 528, 161	44, 677	1, 543, 328	35, 169	862, 319	20, 902
Landed in 1930:					THE CO. T.			
Fresh	1, 431, 689	49, 859	1, 172, 065	37, 521	1, 402, 070	43, 499	1, 108, 052	30, 407
Salted	4, 900	196	1, 112, 000	01,021	1, 102, 010	10, 100	1, 100, 002	00, 101
	1, 500	100						
Total	1, 436, 589	50, 055	1, 172, 065	37, 521	1, 402, 070	43, 499	1, 108, 052	30, 407

Landings by fishing vessels at principal New England ports, 1931—Continued PORTLAND: By Months—Continued

FREIDHING DE LEORE	Decer	nber	Total,	1931	193	0
Species	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:	0 9/4	W. History	146 58 4			
Large Market Scrod	62, 800 37, 111 5, 195	\$2,717 940 51	3, 314, 761 514, 116 33, 364	\$119, 625 11, 069 314	1, 987, 921 660, 505 51, 642	\$78, 428 16, 864 540
Cod, salted: Large			41, 635	1, 512	15, 340	718
Market Scrod			6, 070 115	155 2	260	10
Haddock, fresh: Large	96, 025	5, 859	7, 429, 541	215, 848	8, 589, 386	274, 188
Scrod Hake, fresh: Large	2, 679	45	73, 401	749	227, 158	4, 292
Small	36, 730 103, 099	820 2, 201	310, 323 938, 564	5, 993 16, 484	168, 328 1, 119, 273	3, 468 23, 279
Hake, salted, small	176, 138	1, 108	1, 205, 240 10	10, 684	929, 624	15, 178
Cusk, fresh Cusk, salted	31, 814	625	671, 521 200	13, 148	628, 607	16, 722
Halibut, fresh	750	142	204, 696	28, 470	43, 340 2, 335	6, 990 23
Mackerel, fresh	2, 825	99	2, 305, 421 9, 555	60, 120 113	727, 176 665	28, 030 13
Flounders, fresh Swordfish, fresh	7, 581	353	313, 182 223, 367	9, 461 56, 426	300, 144 299, 987	7, 412 58, 354
Herring, fresh	33, 974	686	667, 430 627, 111	4, 670 12, 093	1, 081, 750 1, 351, 014	10, 657 21, 612
Total, freshTotal, salted	596, 721	15, 646	18, 832, 038 57, 740	565, 154 1, 786	18, 165, 855 18, 670	566, 014 765
Grand total	596, 721	15, 646	18, 889, 778	566, 940	18, 184, 525	566, 779
Landed in 1930: Fresh.	712, 400	28, 854			18, 165, 855 18, 670	566, 014 765
Total	712, 400	28, 854			18, 184, 525	566, 779

SUMMARY: BY PORTS

Marco Managara	Bos	ton	Gloue	ester	Portla	and
Species	Pounds	Value	Pounds	Value	Pounds	Value
Cod, fresh:		C	-			
Large	23, 932, 629	\$794, 081	4,670,912	\$151, 511	3, 314, 761	\$119,623
Market	25, 730, 600	620, 059	897, 257	14, 215	514, 116	11,069
Scrod.	244, 345	3, 882	10, 440	159	33, 364	314
Cod, salted:						
Large	12,690	440	1,028,832	36, 262	41,635	1, 512
Market	,	Total Balancia	201, 532	5, 015	6,070	155
Scrod			5, 645	85	115	2
Haddock, fresh:			0,000	-		
Large	106, 028, 345	3, 819, 572	4, 847, 223	134, 093	7, 429, 541	215, 848
Scrod	14, 258, 395	261, 610	207, 750	2, 485	73, 401	749
Haddock, salted, large	11, 200, 000	201, 010	810	12	10, 202	
Hake, fresh:			010			
Large	5, 860, 915	142, 802	596, 375	11, 480	310, 323	5, 993
Small	43, 420	1, 144	1, 130	12	938, 564	16, 484
Hake, salted:	10, 120	1, 111	1, 100		000,001	20, 20.
Large	and the same		5, 100	66		
Small			0, 200		155	1
Pollock, fresh	5, 027, 987	83, 717	1, 397, 103	19, 313	1, 205, 240	10, 684
Pollock, salted	0, 021, 001	00, 111	1, 262	24	10	20,000
Cusk, fresh	3, 447, 091	68, 290	140, 990	1, 674	671, 521	13, 148
Cusk, salted	0, 111, 001	00, 200	4, 805	93	200	3
Halibut, fresh	2, 309, 826	341, 734	55, 469	5, 632	204, 696	28, 470
Halibut, salted	2, 000, 020	011, 701	245	30	201,000	20, 110
Mackerel, fresh	19, 855, 052	889, 633	7, 298, 373	273, 477	2, 305, 421	60, 120
Mackerel, salted	3, 000	120	52, 329	2, 210	9, 555	113

Landings by fishing vessels at principal New England ports, 1931—Continued SUMMARY: By ports—Continued

KON .	Bost	ton	Gloud	ester	Portland		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
Flounders, fresh Swordfish, fresh Herring, fresh Herring, salted	1, 526, 342 5, 700	\$420, 205 399, 629 142	468, 675 10, 620 204, 700 2, 286, 876	\$21, 199 2, 690 3, 684 80, 589	313, 182 223, 367 667, 430	\$9, 461 56, 426 4, 670	
Other, fresh		59, 434	455, 350	9, 813	627, 111	12, 093	
Total, fresh Total, salted		7, 905, 934 560	21, 262, 367 3, 587, 436	651, 437 124, 386	18, 832, 038 57, 740	565, 154 1, 786	
Grand total	219, 945, 003	7, 906, 494	24, 849, 803	775, 823	18, 889, 778	566, 940	
Landed in 1930: Fresh Salted		10, 868, 671 1, 915	43, 662, 508 3, 696, 959	1, 179, 995 168, 092	18, 165, 855 18, 670	566, 014 765	
Total	285, 257, 478	10, 870, 586	47, 359, 467	1, 348, 087	18, 184, 525	566, 779	

	Total,	1931	193	0
Species	Pounds	Value	Pounds	Value
hara				
Cod, fresh:	04 040 060			** ***
Large	31, 918, 302	\$1,065,217	33, 201, 753	\$1, 342, 643
Market	27, 141, 973	645, 343	31, 134, 541	754, 247
Scrod	288, 149	4, 355	192, 517	3, 543
Cod, salted:				
Large	1, 083, 157	38, 214	1, 351, 185	72, 571
Market	207, 602	5, 170	534, 382	26, 360
Scrod	5, 760	87	201, 454	8, 704
Haddock, fresh:				
Large	118, 305, 109	4, 169, 513	180, 649, 118	6, 476, 004
Scrod	14, 539, 546	264, 844	8, 722, 215	169, 782
Haddock, salted, large	810	12	27	
Hake, fresh:				
Large	6, 767, 613	160, 275	14, 395, 690	369, 593
Small	983, 114	17, 640	1, 217, 833	25, 189
Hake, salted:	300, 111	11,010	1, 211, 000	20, 100
Large	5, 100	66	4, 230	79
Small	155	1	4, 200	10
Pollock, fresh	7, 630, 330	113, 714	13, 976, 971	002 740
				263, 740
Pollock, salted	1, 272	24	3, 225	72
Cusk, fresh	4, 259, 602	83, 112	4, 415, 363	112, 793
Cusk, salted	5, 005	96	18, 052	438
Halibut, fresh	2, 569, 991	375, 836	2, 576, 198	442, 397
Halibut, salted	245	30	5, 330	555
Mackerel, fresh	29, 458, 846	1, 223, 230	33, 433, 723	1, 154, 408
Mackerel, salted	64, 884	2, 443	78, 895	3, 199
Flounders, fresh	10, 275, 344	450, 865	14, 406, 737	651, 410
Swordfish, fresh	1, 760, 329	458, 745	3, 381, 034	725, 949
Herring, fresh	877, 830	8, 496	1, 159, 150	11, 431
Herring, salted	2, 286, 876	80, 589	1, 563, 576	58, 794
Other, fresh	1 3, 247, 640	81, 340	4, 178, 298	111, 551
Total, fresh	260, 023, 718	9, 122, 525	347, 041, 141	12, 614, 680
Total, salted	3, 660, 866	126, 732	3, 760, 329	170, 772
Grand total	263, 684, 584	9, 249, 257	350, 801, 470	12, 785, 452
Landed in 1930:			La maria de la composición del composición de la composición de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición del composición del composición del composición del composición del composición del composición del composición del composición del com	ar alest her
Fresh			347, 041, 141	12, 614, 680
Salted			3, 760, 329	170, 772
Total		4	350, 801, 470	12, 785, 452

¹ The items under "Other" include alewives, 351,800 pounds, value \$4,240; butterfish, 122,571 pounds, value \$9,482; eels, 10,565 pounds, value \$159; cunner ("perch"), 675 pounds, value \$18; rosefish, 120,287 pounds, value \$1,152; salmon, 54 pounds, value \$14; sea robins, 250 pounds, value \$5; seup, 780 pounds, value \$78; shad, 193,095 pounds, value \$7,388; sharks, 57,628 pounds, value \$909; skates, 41,040 pounds, value \$307; smelt, 680 pounds, value \$34; sturgeon, 4,054 pounds, value \$406; tuna, 247 pounds, value \$25; whiting, 69,598 pounds, value \$2,066; wolffish, 1,773,935 pounds, value \$40,669; lobsters, 192 pounds, value \$50; scallops, 369 pounds, value \$56; spearfish, 500 pounds, value \$10; goosefish, 150 pounds, value \$2; sea bass, 2,200 pounds, value \$110; livers, 403,077 pounds, value \$8,402; spawn, 92,544 pounds, value \$5,623; and tongues, 1,349 pounds, value \$135.

BIOLOGICAL ASPECT

In 1931, the fishing fleet landing fares at Boston and Gloucester, Mass., and Portland, Me., and operating on the fishing banks of the North Atlantic from Flemish Cap to New York, numbered 427 steam, motor, and sail vessels, of over 5 net tons, as measured by the United States Customs Service. These made 11,543 trips to the fishing grounds, and were absent from port 54,932 days, or an average of about 4.8 days per trip. This is 0.1 of a day less than the average length of a trip during 1930. Their catches of edible fish landed at the three ports amounted to 266,037,858 pounds when the salted fish had been converted to the basis of fresh gutted or round fish as landed. This does not represent the entire catch of edible fish of these vessels, for small quantities, estimated at not more than 5 per cent of their total catch, were landed at ports in New England other than these three, at New York City, and at ports in New Jersey.

Otter trawls on all sizes of vessels accounted for 153,566,035 pounds, or 58 per cent of the total catch. Line trawls were next in importance, accounting for 62,619,353 pounds, or 24 per cent of the total catch

landed at the three ports in 1931.

The catch taken on Georges Bank was considerably larger than that taken on any other fishing ground and landed at the three ports in 1931. It amounted to 100,142,605 pounds, or 38 per cent of the total catch. It was taken mainly by otter trawls. The grounds near the shore, Browns Bank, and South Channel were next in importance, each accounting for about 15 per cent of the total catch. The catch on the grounds near the shore was taken mainly in purse seines; that on Browns Bank, mainly by line trawls; and that on South Channel, largely by otter trawls.

Landings by fishing vessels at the three principal New England ports, 1931 $$\operatorname{\mathtt{BY}}$ Gear and fishing grounds

	Vessels	m. i	Days		Cod		Hadd	ock	Hal	ke
Gear and fishing ground	fishing	Trips	absent	Large	Market	Scrod	Large	Scrod	Large	Small
Line trawls:	Number	Number	Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Off Funks	1	1	5						***********	
Grand Bank	5	8	183	4, 412	246				5, 239	
Green Bank St. Peters Bank	3	3	70 113	4, 617	1, 377 780					30
Off Newfoundland	9	0 9	36	1, 540	780					1, 47
Seal Island grounds	2	2	11	3, 020	2, 945	270	10, 420	375		10, 62
Gulf of St. Lawrence	2	2	70	575, 951	274, 671	11, 088	10, 420		2, 280	10,02
Scatari Bank	1	1	35	7, 154	2,716	11,000			2, 200	
Quereau Bank	10	14	308	73, 651	13, 302	228	1, 390		5, 276	
The Gully	3	4	79	8, 600	12, 985		40, 000			
Sable Island Bank (Western Bank)	13	18	199	557, 040	363, 740		720, 305		5, 855	
Cape Shore	36	87	944	540, 100	1, 115, 765	715	1, 816, 290	1,005	282, 720	10, 04
Emerald Bank	1	1	8	24,000	18, 980		38, 800			
La Have Bank	33	64	622	618, 137	859, 512	800	1, 799, 135	22, 250	82, 835	56
Roseway Bank	4	5	41	49, 210	99, 300		131, 050		10, 500	
Browns Bank	52	369	3, 696	3, 900, 442	3, 734, 621	1, 020	11, 712, 350	15, 240	645, 095	16, 82
Georges Bank	43	152	1, 771	3, 358, 937	1, 127, 438	265	2, 379, 770	45, 150	138, 474	
South Channel	38	324	2, 089	1, 871, 467	2, 943, 485	1,780	6, 844, 420	33, 560	866, 760	4, 01
Off Highland Light	2	2	10 28	5, 400	6,600	400	42, 900		3, 100	
Off Chatham Nantucket Shoals	1	12	107	15, 265 26, 105	15, 800 12, 025	400	85, 500 28, 905		22, 080	
Cashes Bank	16	31	125	73, 540	40, 050	2,475	129, 125	0.100	1, 800 127, 765	70.00
Fippenies Bank	6	6	28	15, 580	8, 860	2, 470	24, 815	2, 103	28, 800	56, 63
Platts Bank	4	6	15	9, 935	4, 122	125	18, 210	540	8, 240	9, 82
Jeffreys Ledge	27	294	635	201, 914	97, 253	11, 316	881, 059	34, 910	262, 081	287, 00
Tillies Bank	1	1	8	190	01, 200	11,010	3, 100	200	3, 200	
Middle Bank (Stellwagen Bank)	7	54	274	40, 575	20, 928	800	424, 735	13, 065	206, 580	4,00
Shore, general	51	329	917	344, 425	230, 874	20, 993	817, 036	32, 961	169, 368	263, 86
Total	1 105	1, 802	12, 427	12, 331, 207	11, 008, 375	52, 275	27, 949, 315	201, 359	2, 878, 048	669, 56
Hand lines:										
Cape Shore		16	136	170, 730	358, 150		14, 185		400	1
Browns Bank	6	19	184	238, 945	338, 880		36, 540	**********	The second second	
Georges Bank	6	30	277	622, 260	399, 860	********	18, 590		1,000	
South Channel	3	3	20	23, 670	15, 770		4, 900			
On Chatham	1	1	6	200, 010	1, 135		75			
Off Chatham (occasional)					776	89	278			
Nantucket Shoals	. 7	24	160	81, 615			1,620	290	10, 300	

Shore, general (occasional).			17	806	13, 190	95	1, 339		7, 200	***************************************
Total	117	97	810	1, 146, 303	1, 287, 291	344	77, 563	290	13,950	
poons: Gulf of St. Lawrence. Gulf of St. Lawrence. Gulf of Bank Cape Shore. Browns Bank Browns Bank Goorges Bank South Channel. Off Chathan. Shore, general.	4%4-00%	111479	26 26 1, 224 3, 512 26 26 27 16 29 29							
Total.	1.79	278	5,045							***************************************
er trawls, large: Gulf of St. Lawrence. Gulf of St. Lawrence. Is Alwe Bank Browns Bank Browns Bank Goerges Bank South Channel Of Chathan Nantucket Shoals.	1882584751	201 204 204 204 204 204 204	1, 067 1, 067 1, 042 7, 846 1, 864 1, 864 1, 259 11	4,300 1,576,640 1,388,075 1,388,310 7,568,720 1,067,288 13,325 88,310 2,000	9, 400 1, 389, 363 680, 265 794, 835 6, 970, 408 1, 115, 635 29, 500 143, 185 2, 000	35, 130 19, 775 5, 010 105, 975 14, 420 3, 160	40, 700 6, 465, 365 2, 781, 157 29, 850, 301 7, 887, 885 11, 400 1, 314, 010 15, 000	228, 080 171, 805 171, 805 405, 640 7, 228, 955 1, 131, 388 1, 131, 388 3, 900 384, 560 38, 000	19, 400 72, 330 75, 345 200, 830 1, 411, 945 646, 025 11, 375 80, 680	15, 200
Total	191	1,289	12, 744	12, 148, 018	11, 134, 681	183, 470	56, 517, 518	9, 580, 208	2, 497, 550	17,020
Sable Diland Bank (Western Bank) Cape Shore Lad Have Bank Browns Bank Browns Bank Clark Bank Clark Bank Contract Bank South Chatham Off Chatham Off Chatham Andrew Brank Leftrey Ledge. Addreys Ledge. South South South South South South Stotal.	24 24 11 25 28 11 25 11 2	22 777 775 777 775 775 775 775 775 775 7	20 1170 1274 6,422 6,48 2,736 1,50 5,04 1,10 1,175 11,175	1, 800 2, 510 425, 735 3, 042, 735 3, 042, 735 685, 390 44, 055 28, 500 800 2, 575 41, 150, 852 4, 150, 852	7, 400 3, 500 79, 070 2, 005, 130 1, 055, 085 1, 725, 62, 890 145, 800 1, 800 1, 800 1, 800 1, 800 1, 800 1, 800 1, 800 3, 672, 430 3, 672, 430	7, 500 39, 805 10, 105 2, 625 60, 935	25, 100 50, 210 53, 200 3, 172, 560 16, 488, 970 6, 784, 597 3, 200 1, 082, 410 15, 250 10, 250 28, 917, 987	3, 000 11, 500 11, 500 123, 935 3, 050, 965 1, 024, 170 13, 800 13, 435 13, 500 79, 572 4, 576, 842	1, 125 200 200 200 200 200 200 200 200 200 2	3, 500 1,000 6,0 8, 170
										THE REAL PROPERTY.

1 Exclusive of duplication.

Landings by fishing vessels at the three principal New England ports, 1931—Continued BY GEAR AND FISHING GROUNDS—Continued

often at your	Vessels		Days	Cod			Hadd	ock	Hake	
Gear and fishing ground	fishing	Trips	absent	Large	Market	Scrod	Large	Serod	Large	Small
Otter trawls, small: Cape Shore	Number 1	Number 1	Number 7 7	Pounds 50 2,700	Pounds 200 3, 400	Pounds	Pounds 100 33, 500	Pounds	Pounds 800	Pounds
Browns Bank Georges Bank South Channel Nantucket Shoals	6 3 5	49 9 7	383 73 45	96, 445 3, 840 1, 430	68, 845 25, 525 26, 845		642, 760 112, 800 36, 325 2, 165	123, 025 22, 770 2, 135 80	10, 500 915 1, 050	
Jeffreys Ledge Shore, general	59 59	442	1, 115	130 69, 213	35 49, 294	1,605	633, 208	31, 899	87, 098	38, 145
Total	1 62	511	1, 635	173, 808	174, 144	1,605	1, 460, 858	179, 909	100, 363	38, 145
Sink gill nets: Jeffreys Ledge Shore, general	5 35	56 3, 613	57 3, 669	56, 651 3, 969, 460	5, 120 262, 683	925	14, 793 3, 368, 743	938	4, 710 396, 081	19, 422 234, 103
Total	35	3, 669	3,726	4, 026, 111	267, 803	925	3, 383, 536	938	400, 791	253, 525
Drift gill nets: Bay of Islands Georges Bank Jeffreys Ledge South Shore, general	7 1 1 12 84	8 1 3 14 741	412 4 7 44 1,534							
Total	1 92	767	2,001	*****						
Purse seines: Cape Shore Georges Bank South Channel Off Chatham Nantucket Shoals Middle Bank (Stellwagen Bank) South Shore, general	3 47 36 55 22 3 54 124	4 72 45 94 25 3 91 1,308	38 271 167 407 75 9 315 4,087							
Total	1 127	1,642	5, 369							
Grand total	1 427	11, 543	54, 932	33, 976, 299	27, 544, 724	299, 554	118, 306, 777	14 539 546	6, 777, 302	983, 421

Note.—The 3 principal New England ports are Boston and Gloucester, Mass., and Portland, Me. Otter trawls (including V-D trawls) are classified according to the size of the vessel. The weight of salted fish landed has been converted to the equivalent of fresh fish as landed. Only landings by vessels having a capacity of 5 net tons or greater are used in this tabulation. "Occasional" after the name of a bank or ground indicates that the vessel or vessels contributing to the catch as shown fished chiefly with another type of gear. In such cases the number of vessels fishing, number of true, and number of true.

unds 32, 530 221, 499 31, 573 36, 416 90, 589 120, 736 120, 736 120, 736 120, 736 120, 736 131, 689 132, 646 131, 686 131,	TRAILED OF THE ONLINE STATES, 1901
619, 697 688, 110 145, 295 49, 794 1, 210	TALES,
258, 345 28, 335 2, 758	TOGI
794, 687	200

Gear and fishing ground	Pollock	Cusk	Halibut	Flounders	Swordfish	Mackerel	Herring	Other	Total
ine trawls:	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Off Funks			32, 530					0.500	32, 53
Grand Bank		885	273, 825						287, 10
Green Bank		40	65, 439						71, 7
St. Peters Bank		2, 975	214, 734						221, 4
Off Newfoundland			81, 573						81, 5
Seal Island grounds	672	6, 075	164					1,850	36, 4
Gulf of St. Lawrence			44, 526						908, 5
Scatari Bank		1, 102	6, 117						17, 0
Quereau Bank		15, 360	215, 794		1, 325			2, 451	329, 0
The Gully		10, 125	48, 671						120, 7
Sable Island Bank (Western Bank)		11, 525	44, 390		195			3, 040	1,720,3
Cape Shore	40, 365	371, 940	11, 172	350				46, 260	4, 236, 7
Emerald Bank	275	940	822					31.301	83, 8
La Have Bank	34, 800	148, 845	105, 682		203	320		19, 320	3, 692, 4
Roseway Bank		18, 555	976		200	020		2, 375	314, 0
Browns Bank		1, 954, 144	302, 816	4, 250	10, 862			147, 795	22, 709, 9
Georges Bank	91, 341	270, 156	585, 717	80	6, 295			16, 023	8, 019, 6
South Channel	347, 125	198, 055	26, 682	4, 825					13, 196, 3
Off Highland Light	091, 120		20, 002					34, 203	10, 190, 3
Of Chatham	460	600							59, 0
Off Chatham	6, 350	2,700	79					2, 390	150, 5
Nantucket Shoals	800	400	45, 559					262	115, 8
Cashes Bank	26, 015	210, 200	3, 707					4, 325	687, 8
Fippenies Bank	4, 230	18, 670	522						106, 8
Platts Bank	3, 680	7, 430	388	0.005					66, 8
Jeffreys Ledge		300, 076	3, 104	3, 635					2, 252, 0
Tillies Bank	500	200							7, 3
Middle Bank (Stellwagen Bank)	13,040	64, 520	806					6, 447	795, 4
Shore, general	63, 030	249, 261	7,820	3, 356				94, 893	2, 297, 8
Total	972, 966	3, 864, 779	2, 123, 615	16, 496	² 18, 880	2 320		532, 157	62, 619, 3
and lines:									
Cape Shore	49, 455	14, 905	277					11, 595	619, 69
Browns Bank	33, 615	20, 843	3, 917					14, 320	688, 1
Georges Bank	64, 010	19, 665	8, 190					12, 720	1, 145, 2
South Channel	3, 140	800	64						49, 7
Off Chatham	0,110	000	UX					1, 100	1, 2
Off Chatham (occasional)								*********	
Nantucket Shoals	5, 840	760							1, 1
Shore, general	2,000	1,000							258, 34
Shore, general (occasional)	2,000	1,000							28, 3
Shore, general (occasional)									2, 7
Total	158, 165	57, 973	12, 448			Anna med 1	Elucibe.	10 200	2, 794, 68
* *************************************	100, 100	51, 915	12, 448					40, 360	2, 794, 08
1 Fyelusiya	of duplication.	MINISTER A			Incidental ca	atoh			
* Exclusive (n dupheation.			,	incidental c	aten.			

Landings by fishing vessels at the three principal New England ports, 1931—Continued BY GEAR AND FISHING GROUNDS—Continued

Gear and fishing ground	Pollock	Cusk	Halibut	Flounders	Swordfish	Mackerel	Herring	Other	Total
Harpoons:	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds 378
Grand Bank (accessional)					378				135
Green Bank (occasional)					135				1, 901
Gulf of St. Lawrence					4, 474				4, 474
Gurdo Bank					794				79
Quereau Bank (occasional)					5, 567				5, 567
The Gully					32, 367				32, 367
Cape Shore					1, 218				1, 218
La Have Bank (occasional)					519, 416				519, 416
Browns Bank					2, 725				2,72
Browns Bank (occasional)					1, 120, 482				1, 121, 395
Georges Bank					5, 588				5, 588
Georges Bank (occasional)					471				471
South Channel					144				144
South Channel (occasional) Off Chatham					392				390
Off Chatham					3, 379				3, 379
Nantucket Shouls					41, 431		*********		41, 431
Shore, general					263				263
			-						
Total		*********			1, 741, 125			913	1, 742, 038
Otter trawls, large:			7						77, 500
Gulf of St. Lawrence		********		2,800					10, 554, 913
Sable Island Bank (Western Bank)		2,685	38, 301	185, 105		**********		190, 914 88, 653	4, 673, 887
La Have Bank		12, 490	26, 559	157, 460				219, 997	11, 558, 356
Browns Bank	256, 110	22, 080	57, 317	147, 950		0.515	F 700	638, 856	58, 350, 79
Georges Bank		220, 865	172, 725	1, 955, 136	*********		5, 700	187, 613	13, 279, 249
South Channel		36, 985	39, 877	589, 200	*********			2, 580	128, 520
Off Chatham		100	**********	2,850		*******		34, 265	2, 112, 310
Nantucket Shoals		600	1, 535	87, 405				34, 200	59, 000
Shore, general	*********			2,000	*******	********	*********		09,000
Total	3, 574, 215	295, 805	336, 314	3, 129, 906		1 11, 248	1 5, 700	1, 362, 878	100, 794, 531
Otter trawls, medium:									40.00
Sable Island Bank (Western Bank)			15	135					40, 220
Cape Shore		800	129	1, 225				390	73, 214
La Have Bank	19,005	1, 290	4, 059	23, 045				9, 915	833, 461
Browns Bank	48, 710	3, 790	10, 895	86, 310		**********	****	70, 225	4, 231, 22
Georges Bank	321, 545	11, 450	59, 289	3, 117, 210			*******	190, 412	28, 714, 17
Clark Bank	2,300	*******	********	585					23, 03
South Channel		2, 570	16, 320	1, 074, 595	*********			117, 678	11, 020, 883
Off Highland Light				815		*********		120	14, 160
Off Chatham	47,660	250	458	53, 025				22, 620	637, 928

Nantucket Shoals Cashes Bank		15,000	2, 092	463, 305		50		12, 866	1, 957, 328 20, 770
Jeffreys Ledge Middle Bank (Stellwagen Bank) South		330		29, 003 10, 230 400				835 225 2, 980	47, 878 37, 625 3, 380
Shore, general			424	419, 870				36, 312	1, 092, 877
Total	601, 457	36, 340	93, 681	5, 279, 753		2 1, 545		464, 578	48, 748, 170
Otter trawls, small: Cape Shore Browns Bank Georges Bank South Channel Nantucket Shoals Jeffreys Ledge.	450 595 50 150		43 3, 561 95	15, 100 1, 435 340, 783 50, 885 58, 015 2, 605				1, 200 4, 165 50 858 200	16, 250 42, 728 1, 290, 679 216, 930 126, 808 5, 215
Shore, general		1, 910	161	1, 337, 392				70, 387	2, 324, 724
Total	5, 657	1, 910	3, 860	1, 806, 215				76, 860	4, 023, 334
Sink gill nets: Jeffreys Ledge. Shore, general		477 11, 827	563	42, 974				14, 201 276, 802	237, 354 10, 763, 406
Total	2, 320, 287	12, 304	563	42, 974				291, 003	11, 000, 760
Drift gill nets: Bay of Islands. Georges Bank Jeffreys Ledge South Shore, general Shore, general (occasional)						9, 147 4, 920 150, 760 1, 486, 100 9, 290	3, 555, 314		3, 555, 314 9, 147 4, 920 150, 785 1, 505, 923 9, 290
Total						1, 660, 217	3, 555, 514	19, 648	5, 235, 379
Purse seines: Cape Shore Georges Bank South Channel Off Chatham Nantucket Shoals. Middle Bank (Stellwagen Bank). South						189, 784 1, 485, 450 1, 170, 885 1, 037, 980 784, 972 69, 775 2, 098, 290		430 600 1, 330 250	189, 784 1, 485, 880 1, 171, 485 1, 039, 310 785, 222 69, 775 2, 098, 450
Shore, general					324	21, 035, 973	746, 930	456, 383	22, 239, 610
Total					2 324	27, 873, 109	746, 930	459, 153	29, 079, 516
Scallop drags: Shore, general (occasional)								90	90
Grand total	7, 632, 747	4, 269, 111	2, 570, 481	10, 275, 344	1, 760, 329	29, 546, 439	4, 308, 144	3, 247, 640	266, 037, 858

² Incidental catch.

Landings by fishing vessels at the three principal New England ports, 1931—Continued SUMMARY: By FISHING GROUNDS

PANALISTA A COLOR LA	Vessels	m .	Days		Cod	Twitten.	Hadd	lock	Hal	ke
Fishing ground	fishing	Trips	absent	Large	Market	Scrod	Large	Scrod	Large	Small
East of 66° W. longitude										20215
Off Newfoundland:	Number	Number	Number	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Off Funks Grand Bank		8	183	4, 412	246				5, 239	
Green Bank		3	70	4, 617	1, 377					
St. Peters Bank		5	113	1, 540	780					
Bay of Islands		8	412							
Off Newfoundland		2	36							
Total	1 17	27	819	10, 569	2, 403				5, 239	1, 77
Off Canada:				0.000	0.045	070	10 100	075		10.00
Seal Island grounds Gulf of St. Lawrence		2	11 90	3, 020 580, 251	2, 945 284, 071	270 11, 088	10, 420 40, 700	375 900	21, 680	10, 62
Scatari Bank		1	35	7, 154	2,716	11,055	40, 700	300	21,000	
Gurdo Bank		î	26	.,	2, 1.40					
Quereau Bank	10	14	308	73, 651	13, 302	228	1, 390		5, 276	
The Gully	4	5	99	8, 600	12, 985		40,000			
Sable Island Bank (Western Bank)		113 114	1, 286 1, 221	2, 135, 480 713, 390	1, 760, 503 1, 477, 615	35, 130 715	7, 210, 770 1, 880, 785	229, 080 12, 505	79, 310 285, 820	10, 040
Emerald Bank		114	1, 221	24, 000	18, 980	110	38, 800	12, 505	200, 020	10, 040
La Have Bank		138	1, 376	1, 180, 942	1, 618, 847	21,075	5, 139, 795	245, 710	170, 980	568
Roseway Bank		5	41	49, 210	99, 300		131, 050		10, 500	
Total	1 125	398	4, 501	4, 775, 698	5, 291, 264	68, 506	14, 493, 710	488, 570	573, 566	21, 230
West of 66° W. longitude										
Off United States:	100	001		F 000 150	F 100 070	10 000	00 000 100		070 000	10.00
Browns Bank Georges Bank		634 2, 067	6, 775 20, 468	5, 906, 152 14, 689, 020	5, 132, 876 10, 572, 061	13, 930 146, 045	23, 656, 107 49, 380, 391	544, 815 10, 478, 125	876, 000 1, 942, 794	16, 92 18, 92
Clark Bank		2,007	20, 408	1, 600	250	140, 040	16, 500	10, 476, 125	1, 700	10, 32
South Channel	180	931	6, 979	3, 451, 655	5, 155, 500	26, 305	21, 634, 602	2, 211, 868	1, 835, 770	6, 51
Off Highland Light		3	14	5, 400	8, 325		46, 100	5, 800	5, 500	
Off Chatham	71	129	631	72, 645	110, 101	489	476, 318	57, 080	57, 220	
Nantucket Shoals Cashes Bank		161 32	1, 179 130	225, 960 74, 340	485, 775 41, 950	3, 160 2, 475	2, 463, 270 129, 125	505, 420 2, 103	119, 680 130, 835	56, 63
Fippenies Bank		6	28	15, 580	8, 860	2, 475	24, 815	2, 103	28, 800	4, 39
Platts Bank		6	15	9, 935	4, 122	125	18, 210	540	8, 240	9, 82
Jeffreys Ledge	38	361	735	259, 235	102, 923	11, 316	913, 912	34, 990	267, 551	306, 42
Tillies Bank		1	8	190			3, 100	200	3, 200	
Middle Bank (Stellwagen Bank)		60	297	42, 650	21, 053	800	434, 985	26, 565	207, 800	4,00
South Shore, general		106 6, 620	362 11, 983	4, 435, 670	607, 261	26, 403	5, 215, 632	183, 370	713, 407	536, 78
Total		11, 118	49, 612	29, 190, 032	22, 251, 057	231, 048	103, 813, 067	14, 050, 976	6, 198, 497	960, 41
										200000000000000000000000000000000000000
Grand total	1 427	11, 543	54, 932	33, 976, 299	27, 544, 724	299, 554	118, 306, 777	14, 539, 546	6, 777, 302	983, 421

Fishing ground	Pollock	Cusk	Halibut	Flounders	Swordfish	Mackerel	Herring	Other	Total
East of 66° W. longitude	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Off Funks Grand Bank Green Bank		885 40	32, 530 273, 825 65, 439		378 135			2, 500	32, 53 287, 48 71, 91
St. Peters Bank Bay of Islands		2,975	214, 734						221, 49 3, 555, 31
Off Newfoundland			81, 573						81, 5
Total		3, 900	668, 101		513		3, 555, 314	2, 500	4, 250, 3
Off Canada: Seal Island grounds		6, 075	164					1, 850	36, 4
Gulf of St. Lawrence Scatari Bank		1, 102	44, 526 6, 117	2, 800					987, 9 17, 0
Gurdo Bank Quereau Bank	247	15, 360	215, 794		2, 119			2, 451	4, 4 329, 8
The Gully Sable Island Bank (Western Bank)	388, 880	10, 125 14, 210	48, 671 82, 706	185, 240	5, 567 195			193, 954	126, 3 12, 315, 4
Cape Shore Emerald Bank	275	387, 645 940	11, 578 822	16, 675	32, 367	189, 784		58, 245	5, 168, 0 83, 8
La Have Bank Roseway Bank		162, 625 18, 555	136, 300 976	180, 505	1, 421	420		117, 888 2, 375	9, 200, 9 314, 0
Total	707, 304	615, 637	547, 654	385, 220	48, 044	190, 204		376, 763	28, 584, 3
off United States: West of 66° W. longitude	P. 1. 1			7.31					
Browns Bank Georges Bank		2, 000, 857 522, 136	374, 988 829, 482	239, 945 5, 413, 209	533, 903 1, 132, 365	1, 505, 212	5, 700	453, 537 863, 519	39, 752, 4 100, 142, 6
Clark Bank South Channel	1, 037, 042	238, 410	83, 038	585 1, 719, 505	615	1, 172, 913		361, 596	23, 0 38, 935, 3
Off Highland Light Off Chatham	58, 460	600 3, 050	537	815 55, 875	392	1, 037, 980		120 28, 920	73, 2 1, 959, 0
Nantucket Shoals Cashes Bank	59, 410 26, 015	1, 760 225, 200	49, 186 3, 707	608, 725	3, 379	785, 022		48, 501 16, 265	5, 359, 2 708, 6
Fippenies Bank	4, 230	18, 670 7, 430	522 388					950 4, 325	106, 8 66, 8
Platts Bank Jeffreys Ledge. Tillies Bank	180, 876 500	300, 883 200	3, 104	35, 243				126, 042	2, 547, 4
Tillies Bank Middle Bank (Stellwagen Bank) South		64, 520	806	10, 230 400		69, 775 2, 249, 050		6, 672 3, 165	902, 8 2, 252, 6
Shore, general	2, 292, 369	264, 858	8, 968	1, 805, 592	42, 018	22, 531, 363	747, 130	954, 765	40, 365, 5
Total	6, 925, 443	3, 648, 574	1, 354, 726	9, 890, 124	1, 711, 772	29, 356, 235	752, 830	2, 868, 377	233, 203, 1
Grand total.	7, 632, 747	4, 269, 111	2, 570, 481	10, 275, 344	1, 760, 329	29, 546, 439	4, 308, 144	3, 247, 640	266, 037, 8

¹ Exclusive of duplication.

Note.—The weight of salted fish landed has been converted to the equivalent of fresh fish as landed.

Days' absence from port of fishing vessels landing fish at Boston and Gloucester, Mass., and Portland, Me., 1931

Fishing ground	Janu- ary	Febru- ary	March	April	May	June	July
Off Newfoundland:			7 14	-VIII			
Grand Bank Green Bank		27		2	91		47
St. Peters Bank		21	44	27			2
Bay of Islands	316						
Off Newfoundland							36
Total	316	48	44	29	91		104
Off Canada:				-	-	-	-
Gulf of St. Lawrence					. 22		
Scatari Bank		******	******			- 35	
Quereau Bank			24	55		141	
The GullySable Island Bank (Western Bank)	240		98	347	97	62	90
Cape Shore	- 39				. 16	54	2
Emerald Bank		146	40	101	52	32	7
La Have Bank		140	40	101	8		
	_	140	100	500			10
Total	477	146	162	508	240	324	194
Off United States: Browns Bank	718	899	978	1, 212	341	122	614
Georges Bank		1, 276	1,982	1, 028	1, 446		2, 430
Clark Bank	- 8						
South Channel Off Chatham		240 20	366 28	136			1, 114
Nantucket Shoals		41	60	35			19
Cashes Bank	_ 24		10	14	19		
Fippenies Bank			******	5			
Platts Bank Jeffreys Ledge		141	91	16	14	7	
Middle Bank (Stellwagen Bank)	50	49	37	4			1
South				9	274	79	
Shore, general	- 684	595	741	912	756	1, 059	608
Total	. 3, 906	3, 263	4, 293	3, 381	3, 431	4, 132	5, 374
Grand total	4, 699	3, 457	4, 499	3, 918	3, 762	4, 456	5, 672
	1						
Fishing ground	August	Septen ber	Octo	ber N	ovem- ber	Decem- ber	Total
Off Newfoundland:							
Off Funks	. 5						5
Grand Bank	43						183
Green BankSt. Peters Bank	43						70
Bay of Islands						96	413
Off Newfoundland							36
Total	91					96	819
	51			****		70	011
Off Canada: Seal Island grounds				11			96
Gulf of St. Lawrence				5	15		11
Scatari Bank							35
Gurdo Bank			6				26
Quereau Bank The Gully		0	3	32			308
Sable Island Bank (Western Bank)		3	2	71	129	117	1, 286
Cape Shore	70	9	3	95	470	361	1, 221
Emerald BankLa Have Bank	87		7	183	170	210	1, 376
Roseway Bank	5			100	170	28	41
Total	252	30	1	397	784	716	4, 501
Off United States:		- 100	E 100		7 6	FINE	
Browns Bank	934	25		117	160	421	6, 775
Georges Bank Clark Bank	1,719	2, 59	1,	353	1, 591	1,360	20, 468
South Channel	1,061	71		048	446	194	6, 979
Off Highland Light			3	7	4 -		14
Off Chatham	46 73		6	36 150	15 173	13	631 1, 179

Days' absence from port of fishing vessels landing fish at Boston and Gloucester, Mass., and Portland, Me., 1931—Continued

Fishing ground	August	Septem- ber	October	Novem- ber	Decem- ber	Total
Off United States—Continued. Fippenies Bank		1007 1007 11078	5 5	9	9	28 15
Jeffreys Ledge Tillies Bank	2	11	91	83	88	735
Middle Bank (Stellwagen Bank)			14	58	79	297 362
Shore, general	1, 768	1, 729	1, 021	1, 343	770	11, 983
Total	5, 603	5, 401	3,852	3, 927	3, 049	49, 612
Grand total	5, 946	5, 702	4, 249	4, 711	3, 861	54, 932

MACKEREL FISHERY OF THE ATLANTIC COAST

That part of the 1931 mackerel catch taken by purse seines and drift gill nets and landed at the principal Atlantic receiving ports amounted to 36,483,472 pounds, a decrease of 16 per cent as compared with similar figures for the previous year. Because of their importance in certain seasons, the catch of fishing boats of less than 5 net tons capacity has been included in so far as data were available. The catch by shore gear, such as pound nets and traps, were omitted. Practically all of the statistics were collected by the bureau's agents at Cape May, N. J.; New York City, N. Y.; Boston, Gloucester, and Woods Hole, Mass.; and Portland, Me. A few of the landings, particularly at ports not having a bureau representative, were secured from unofficial sources and often consisted of estimated rather than "weighed out" fares. The error involved is probably well under 5 per cent in the vessel fishery. The figures on the boat fishery are probably less complete.

Mackerel fishery of the Atlantic coast, 1931

CATCH: By PORTS IN 5-DAY PERIODS 1

Date	Cape May, Wildwood, and Atlan- tic City	New York	Newport, New Bed- ford, Cape Cod Canal, Woods Hole, Nan- tucket, and Province- town	Boston	Gloucester	Portland, Rockland, Boothbay, and South- west Harbor	Total
April 6-10	Pounds 14, 500	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds 14,500
April 11-15	1,900						1,900
April 16-20	942, 222	86, 700					1,028,922
April 21-25	608, 378	13, 970					622, 348
April 26-30	145, 500	5, 458		57, 300			208, 258
May 1-5	559, 233	182, 475	1,800	31,380			774, 888
May 6-10	475, 450	107, 136	350				582, 936
May 11-15	104, 250	654, 825	66, 103	548, 300	1 177		1, 373, 478
May 16-20		167, 850	200, 540	271, 500	1, 175	655	641, 065 757, 584
May 21-25		154, 239	193, 555	384, 685	24, 450		
		89, 530	376, 251	684, 375	215, 720	12, 270	1, 378, 146 935, 398
June 1-5		90,000	117, 663	662, 380	51, 485	13,870 1,165	611, 599
June 6-10		38,000	50, 075	426,840	95, 519	1, 105	011, 599

¹ The landings at the ports of Boston, Gloucester, and Portland vary somewhat from those published under "Vessel fisheries at principal New England ports" in the annual reports of the division of fishery industries, due to the inclusion of landings of some small boats in the above data and also to different methods in the collection of the statistics.

Mackerel fishery of the Atlantic coast, 1931—Continued CATCH: By forts in 5-day periods—Continued.

Date	Cape May, Wildwood, and Atlan- tic City	New York	Newport, New Bed- ford, Cape Cod Canal, Woods Hole, Nan- tucket, and Province- town	Boston	Gloucester	Portland, Rockland, Boothbay, and South- west Harbor	Total
567 7 75.77	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
June 11-15			40, 415	174, 930	9, 435	3, 601	228, 38
June 16-20		20,000	68, 590	1, 067, 891	97, 095	15, 282	1, 268, 85
June 21-25			268, 000	609, 270	28, 370	37, 962	954, 60
June 26-30			5, 600	539, 025	76, 455	12, 225	633, 30
July 1-5				1, 068, 645	196, 370	42, 596	1, 307, 61
July 6-10				1, 126, 930	152, 050	8, 085	1, 308, 56
July 11-15				642, 720	66, 720	5, 935	805, 00
				729, 262	187, 655	1,770	918, 68
July 16-20 July 21-25 July 26-31			21 000	325, 800	50, 380	730	407, 91
July 21-20			1 275	420, 225	72, 550	29, 180	526, 23
July 20-31			4, 213				
Aug. 1-5			12 000	923, 131	235, 875	190, 840	1, 349, 84
Aug. 6-10				426, 275	274, 715	189, 855	903, 84
Aug. 11-15				393, 005	49, 350	104, 076	546, 43
Aug. 16-20				1, 406, 915	562, 172	248, 175	2, 217, 262
Aug. 21-25				1, 444, 310	1, 171, 383	281, 388	2, 897, 08
Aug. 26-31 Sept. 1-5			60,000	943, 440	771, 000	401, 862	2, 176, 30
Sept. 1-5				629, 070	222, 355	96, 185	947, 610
Sept. 6-10				592, 985	401, 080	77,850	1, 071, 91
Sept. 11-15				899, 025	626, 902	238, 795	1, 764, 725
Sept. 16-20				445, 430	207, 470	161, 723	829, 623
Sept. 21-25				499, 930	633, 655	227, 487	1, 361, 072
Sept. 26–30				327, 600	213, 160	12,820	553, 580
Oct. 1-5			4,500	284, 830	167, 305	1,843	458, 478
Oct. 6-10				273, 830	26, 466	4, 355	306, 186
Oct. 11-15			3,633	52, 530	88, 543	5, 035	149, 741
Oct. 16-20				59, 645	2, 445	277	62, 367
Oct. 21-25				184, 747	68, 040	342	253, 129
Oct. 26-31					4, 815	779	5, 594
Nov. 1-5				1, 390	4, 340	773	6, 503
Nov. 6-10					12, 496	489	12, 985
Nov. 11-15					31,741	750	32, 491
Nov. 16-20				49, 925	58, 020	475	108, 420
Nov. 21-25				106, 017	565, 575	0.200	680, 952
Nov. 26-30				45, 630	217, 922	9, 300	263, 552
Dec. 1-5				46, 868	65, 548		112, 416
Dec. 6-10				24, 420	74, 522		98, 942
Dec. 11-15				1,300	18, 116		19, 416
Dec. 16-20				2,100	740		2, 840
				2, 100	TAIL SECTION		2, 840
Total	2, 851, 433	1, 621, 183	1,633,010	19, 835, 806	8, 101, 180	2, 440, 860	36, 483, 472

OPERATING UNITS AND CATCH: BY FLEET CLASSIFICATION AND GROUNDS

Designation	Vessels and boats	Tonnage	Crew	Trips	Total catch
SOUTHERN Seiners: Regular vessels	Number 36	Net tons	Number 460	Number 212	Pounds 3, 742, 709
Miscellaneous vessels Netters:	19	710	218	47	721, 189
Regular vessels Miscellaneous vessels Miscellaneous boats	19 17 2	409 283	135 107	121 49 4	594, 841 181, 335 4, 165
Total	1 91	2, 788	920	433	5, 244, 239

¹ Exclusive of boats and of duplication,

Mackerel fishery of the Atlantic coast, 1931—Continued OPERATING UNITS AND CATCH: By Fleet classification and grounds—Continued

Designation	Vessels and boats	Tonnage	Crew	Trips	Total catch
STEEL SELECTION OF STREET	147				
Seiners: BLOCK ISLAND	Number	Net tons	Number	Number	Pounds
D 1 1 / ' '			587	261	
Regular vessels (spring)	47 32	1,645	259	63	4, 300, 955
Miscellaneous vessels (spring)		798			932, 478
Miscellaneous vessels (summer)	24	930	297	34	886, 547
Netters:	10	000	00	00	FFF 107
Regular vessels	16	262	99	63	555, 127
Miscellaneous vessels	25	461	157	36	332, 866
Miscellaneous boats	8			18	55, 209
Total	1 121	4, 096	1, 399	475	7, 063, 182
GULF OF MAINE					
Seiners:					
Regular vessels	55	1, 883	673	918	17, 288, 071
Miscellaneous vessels	54		457	398	
		1, 236	- 457		5, 013, 146
Miscellaneous boats	7			23	151, 450
Netters:					
Spring— Regular vessels	-	1			7.11
Regular vessels	2	18	9	28	39, 844
Miscellaneous vessels	9	119	45	13	22, 930
Miscellaneous boats	6			17	13, 800
Fall—					
Regular vessels	46	1, 140	348	596	1, 110, 824
Miscellaneous vessels	31	645	217	124	235, 004
Miscellaneous boats	11			26	13, 658
Total				0.110	00 000 808
Total	1 147	5, 041	1,749	2, 143	23, 888, 727
CAPE SHORE					The same
Seiners, regular vessels	- 5	262	70	6	287, 324
Total seiners	1 112			1, 962	33, 323, 869
Total netters	1 94			1, 962	
Total Hetters	1 94			1, 095	3, 159, 603
Grand total	1 160			3, 057	36, 483, 472

¹ Exclusive of boats and of duplication.

FISHERIES OF THE MIDDLE ATLANTIC STATES 6

The yield of fishery products in the Middle Atlantic States (New York, New Jersey, Pennsylvania, and Delaware) during 1930 amounted to 193,867,981 pounds, valued at \$13,063,672. This is an increase of 2 per cent in the amount of the catch, but a decrease of 8 per cent in the value of the catch as compared with the quantity and its value for 1929. Of the total catch in 1930, 131,637,591 pounds, valued at \$3,587,793, were fish; and 62,230,390 pounds, valued at \$9,475,879, were shellfish and miscellaneous products. These fisheries gave employment to 10,065 fishermen or 1 per cent more than in 1929. Of the total number of fishermen employed during 1930, 4,665 regular fishermen were engaged on vessels, and 3,180 regular and 2,760 casual fishermen were employed in the shore and boat fisheries.

⁶ With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical Survey Procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of the Middle Atlantic States, 1930 SUMMARY OF CATCH

Product	New	York	New J		Pennsylvania	
Product	Pounds	Value	Pounds	Value	Pounds	Value
FishShellfish, etc	27, 280, 562 18, 213, 989	\$1,067,939 3,865,710	55, 578, 024 41, 697, 861	\$1,993,577 5,480,848	16,745	\$2,803
Total	45, 494, 551	4, 933, 649	97, 275, 885	7, 474, 425	16,745	2,803

	Delaw	are	Total		
Product	Pounds	Value	Pounds	Value	
FishShellfish, etc	48, 762, 260 2, 318, 540	\$523, 474 129, 321	131, 637, 591 62, 230, 390	\$3, 587, 793 9, 475, 879	
Total	51, 080, 800	652, 795	193, 867, 981	13,063,672	

OPERATING UNITS: BY STATES

Item	New York	New Jersey	Penn- sylvania	Delaware	Total
Fishermen: On vessels On boats and shore—	Number 707	Number 3, 292	Number	Number 666	Number 4, 665
Regular Casual.	1, 236 1, 157	1,747 1,177	52	197 374	3, 180 2, 760
Total	3, 100	6, 216	52	1,237	10,605
Vessels: Steam Net tonnage Motor Net tonnage Sail Net tonnage	1 36 168 2,275 10 88	286 4, 434 77 2, 085		14 1,904 9 289 10 133	15 1, 940 463 6, 998 97 2, 306
Total vessels Total net tonnage	179 2,399	363 6, 519	1120.10	33 2,326	575 11, 244
MotorOther	562 1,080 79	1,379 750 121	5 14	68 192 86	2, 014 2, 036 286
MenhadenLength, yards	1,340	1 456		16 6, 528	21 8, 324
Other Length, yards Haul seines Length, yards Gill nets—	400 141 20, 503	5, 880 102 11, 898	11 1,380	87 23, 970	6, 280 341 57, 751
Anchor Square yards Drift Square yards	198 34,387 581 450,986	5,940 862 658,830	11 15,690	79 211,379	203 40, 327 1, 533 1, 336, 885
Runaround Square yards Stake. Square yards.	71,620 110 35,819	90 405, 674 1, 340 161, 823		$\begin{array}{c} 45 \\ 40,000 \\ 209 \\ 23,424 \end{array}$	175 517, 294 1, 659 221, 066
Lines— Hand Hooks Trawl Hooks	90 128 1,897 279,225	555 793 824 503, 450	1	52 104 14 6,100	698 1, 026 2, 735 788, 775
Troll. Hooks_ Trot, with baits or snoods Baits or snoods. Trot, with hooks	20 20	304 316 4 1,775		1 50	324 336 5 1,825
Hooks	2, 640				2,640

Fisheries of the Middle Atlantic States, 1930-Continued OPERATING UNITS: BY STATES-Continued

Item	New York	New Jersey	Penn- sylvania	Dela- ware	Total
Apparatus—Continued	Number	Number	Number	Number	Number
Pound nets	418	181		67	666
Floating traps	9				9
Wiers		83			83
Stop nets	18	60		9	87
Square yards	13, 170	34,704		3,368	51, 242
Fyke nets	2,412	1,772	30	320	4,534
Dip nets	65	36		36	137
Cast nets		4		7	11
Scap nets	158				158
Drag nets	18	6			24
Yards at mouth	32	17			49
Push nets	29				29
Otter trawls—					
Fish.	114	61			175
Yards at mouth	2, 887	1,331			4,218
Scallops	1				1
Yards at mouth	12				12
Shrimp	1	3			4
Yards at mouth	30	72			102
Pots-					
Crab	54	4			58
Eel	4,391	5, 299		775	10,465
Lobster	17,841	33, 920		185	51,946
Harpoons	21	00,02,0		100	21
Spears	139	60		6	205
Dredges—	100	00			200
Clam	16	56		10	82
Yards at mouth.	16	62		10	88
Crab	10	53		10	53
Yards at mouth		59			59
Mussel.	8	00			8
Yards at mouth	10				. 10
Ovster	105	537		32	674
Yards at mouth	144	634		39	817
	1, 210	9		00	1, 219
ScallopYards at mouth	1, 196	29			1, 225
	605	868		80	1, 553
Tongs		667		6	1, 128
Rakes	455			0	475
Forks	456	19 74			74
Hoes					33
Gaffs		32		1	33

Fisheries of the Middle Atlantic States, 1930—Continued

CATCH: BY STATES

	New Y	ork	New Je	rsey	Pennsyl	Ivania	Delawa	re	Tota	al
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH										
lbacore	59, 900	\$2,050	31, 114	\$509					91, 014	\$2, 5
lewives	631, 694	10, 053	1, 464, 122	15, 928	2,000	\$100	3, 193, 966	\$9,742	5, 291, 782	35, 8
luefish	821, 080	77, 657	2, 961, 744	312, 662	_,		31, 010	2, 314	3, 813, 834	392, 6
onito	186, 589	13, 733	230, 246	13, 161			,		416, 835	26, 8
utterfish	742, 791	58, 445	2, 393, 821	178,609					3, 136, 612	237, 0
arp	170, 450	22, 871	100, 432	13, 146	893	97	85, 836	9, 045	357, 611	45, 1
atfish and bullheads	17, 538	3, 071	36, 347	2, 961	1,425	163	38, 917	3, 761	94, 227	9, 9
ero			20,000	2,000					20,000	2, (
od	2, 802, 306	95, 220	7, 779, 371	235, 669			97, 144	3,600	10, 678, 821	334,
roaker	325, 000	8, 125	1, 439, 807	50, 493			1, 124, 930	28, 704	2, 889, 737	87,
usk			8, 400	84					8, 400	
olphin			1, 132	40					1, 132	
rum:		15-25-55	0.004	105	100				2 004	
Black			6, 904	135					6, 904	
Red or redfish	637, 477	77, 378	64, 924 539, 749	11, 656 58, 608	865	200	93, 589	10, 996	64, 924	11,
elslounders		216, 314	2, 926, 352	147, 850			132, 553	9, 503	1, 271, 680 9, 558, 809	147,
izzard shad	0, 499, 904	210, 314	2, 920, 552	147,000			950	9, 503	9, 558, 809	373,
oosefish			37, 892	1, 118			930		37, 892	1.
rayfish	1, 250	38	11, 440	229					12, 690	1,
runts		00	150	6					150	
addock		76, 837	5, 797	205					2, 573, 452	77.
agfish	2,001,000	,	7, 200	72					7, 200	,
ake	142, 755	2, 446	222, 747	4,002					365, 502	6.
alibut	4, 895	968							4, 895	
erring, sea	32, 456	674	659, 847	6, 664					692, 303	7.
ing whiting or "kingfish"	14, 021	1,821	69, 223	7,538			3, 080	119	86, 324	9.
ackerel	464, 735	20, 743	655, 728	25, 442					1, 120, 463	46,
enhaden	4, 599, 640	19, 423	5, 918, 010	41, 350			41, 960, 142	307, 112	52, 477, 792	367,
innows	147, 694	4, 438	18,000	220					165, 694	4,
ullet			340	22			64, 800	4, 300	65, 140	4,
ummichog	110, 155	9, 167	16,000	200					126, 155	9,
ke or pickerel	705	108							705	
llotfish	711 400	0.707	2, 460	123					2, 460	
ollock	111, 430	2, 787	2, 964	111			********		114, 394	2,
osefish	1, 375	41		100 000					1, 375	
eup or porgyea bass	1, 089, 581 319, 751	31, 257 24, 468	7, 564, 041 3, 546, 149	183, 266 134, 360			27, 000 20, 250	2, 160 1, 620	8, 680, 622 3, 886, 150	216, 6 160, 4

2.261

Sea robinShadSharks	167, 162 450	28, 267 23	223, 714 176, 469	41, 127 3, 795			54, 446		132, 401 450, 177 176, 919	2, 261 81, 732 3, 818
SilversidesSkatesSmelt_	27, 513	12, 395 333 868	241, 091	4, 380					260, 410 268, 604 3, 100	12, 395 4, 713 868
Snapper, red Spanish mackerel			4, 000 15, 839	400 1, 496					4, 000 15, 839	400 1, 496
SpotSqueteague or "sea trout," gray	3, 878 939, 368	309 67, 165	542, 616 11, 097, 692	22, 645 357, 844			146, 761 1, 234, 725	8, 250 40, 468	693, 255 13, 271, 785	31, 204 465, 477
Striped bassSturgeon	2, 110	11, 344 610	36, 862 4, 208	5, 761 1, 787	182	182 597	102, 027 15, 313 150	22, 449 6, 253	205, 329 21, 813	39, 554 8, 832
Suckers Sunfish Swordfish	2, 028	5, 054 211 37, 887	27, 575				150	9	78, 602 2, 028 234, 140	8, 487 211 37, 887
Tautog Thimble-eyed mackerel	82, 177	6, 196	181, 966 35, 722	6, 115			74, 000	2, 300	338, 143 35, 722	14, 611 1, 115
Tilefish	2, 312, 200 120, 805	88, 415 4, 818							2, 312, 200 120, 805	88, 415 4, 818
Tuna or "horse mackerel" Whitebait White perch	95, 800	2, 301 7, 140 3, 070	37, 562 149, 356				209, 971		57, 162 95, 800	4, 774 7, 140
Whiting Wolffish	349, 267	10, 367 113	3, 763, 942	59, 568			209, 971	35, 115	380, 118 4, 113, 209 6, 425	55, 411 69, 935 113
Yellow perch Yellowtail	5, 065	605	179, 210	14, 633			47, 760 2, 940	4, 689 84	232, 035 2, 940	19, 927 84
Total	27, 280, 562	1, 067, 939	55, 578, 024	1, 993, 577	16, 745	2, 803	48, 762, 260	523, 474	131, 637, 591	3, 587, 793
Crabs:		1200	77774	41 of 4					LUSTE	PY
Hard King		8, 716	252, 056 5, 215, 800	20, 307 27, 548			968, 760	1, 265	417, 200 6, 184, 560	29, 023 28, 813
Rock Soft Lobsters	5, 576	1, 704 136, 692	105, 824 1, 010, 579	230, 110			23, 800 11, 750	4, 850 2, 620	135, 200 1, 558, 720	80 21, 727 369, 422
Shrimp Squid Clams:	95, 530	14, 318 21, 757	245, 526 1, 239, 524	14, 485					341, 056 1, 773, 508	28, 803 54, 776
Hard, public ¹	46, 180	358, 302 18, 122 756	1, 561, 556 150, 910				18, 503 6, 003	3, 790 2, 001	2, 373, 715 203, 093 3, 080	1, 010, 190 45, 181 756
Soft, public ² Soft, private ²	501, 975	70, 448 12	628, 628						1, 130, 603 192	158, 256 12
Surf or skimmers	291, 270	34, 639	131, 670						422, 940	49, 920

¹ Statistics on hard clams used in this table are based on yields of 9 pounds of meats per bushel for those from public beds in New York, and 8 pounds for those from public beds in New Jersey and Delaware; 10 pounds for those from private beds in New York and New Jersey, and 8 pounds for those from private beds in Delaware. In reports for previous years all hard clams in these States have been computed on the basis of a uniform yield of 8 pounds of meats to the bushel.

² Statistics on soft clams used in this table are based on yields of 15 pounds of meats to the bushel in New York and 12 pounds in New Jersey. In reports for previous years all soft clams have been computed on the basis of a uniform yield of 10 pounds of meats to the bushel.

See robin

Fisheries of the Middle Atlantic States, 1930—Continued

CATCH:	BY STATES-	Continued
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	New Y	ork	New Je	ersey	Pennsy	lvania	Delawa	re	Tota	al
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued Conchs Mussels Oysters: Market, public, spring Market, privblic, fall Market, private, spring Market, private, fall Seed, public, spring Seed, public, spring Seed, public, fall Seed, private, spring Seed, private, fall Seed, private, fall Seed, private, fall	35, 226 271, 500 8, 767 7, 521 4, 741, 779 4, 505, 158 132, 720 96, 215 738, 878 2, 854, 610	\$2, 945 11, 985 2, 166 1, 888 1, 123, 278 1, 045, 663 17, 475 13, 460 130, 006 381, 550	4, 200 37, 602 121, 226 3, 656, 171 8, 009, 996 18, 621, 970 82, 804 439, 343 4, 000	\$282 5, 671 16, 613 587, 952 1, 238, 752 2, 421, 382 9, 959 42, 044 300			19, 500 166, 467 28, 120 233, 513 764, 100 75, 374	\$1, 875 18, 942 3, 967 32, 002 53, 370 4, 501	35, 226 295, 200 46, 369 295, 214 8, 426, 070 12, 748, 667 19, 518, 790 254, 393 1, 178, 221 2, 858, 610	\$2, 944 14, 142 7, 837 37, 415 1, 715, 197 2, 316, 417 2, 492, 227 27, 297 172, 056 381, 856
Bay	396, 711 1, 338, 462	115, 274 230, 746	164, 100 6, 041	33, 342 7, 052					396, 711 1, 502, 562 6, 041	115, 27- 264, 08 7, 05
Loggerhead Snapper Bloodworms Sandworms		62, 588 61, 170	905 7, 430	31 581			2, 650		905 10, 080 54, 404 58, 420	31 719 62, 588 61, 170
Total	18, 213, 989	3, 865, 710	41, 697, 861	5, 480, 848			2, 318, 540	129, 321	62, 230, 390	9, 475, 87
Grand total	45, 494, 551	4, 933, 649	97, 275, 885	7, 474, 425	16, 745	\$2,803	51, 080, 800	652, 795	193, 867, 981	13, 063, 672

³ Statistics on oysters used in this table are based on yields of 7 pounds of meats per bushel for market oysters in New York, 8.41 pounds for market oysters in New Jersey, and 7.5 pounds for market oysters in Delaware; and 7 pounds for seed oysters in New York, and 4.5 pounds for seed oysters in New Jersey and Delaware. In reports for previous years, all oysters in these States have been computed on the basis of a uniform yield of 7 pounds of meats to the bushel.

Note.—Of the above catch, all the cero and red snapper were taken off the coast of Florida. In addition, 45,000 pounds of shrimp, valued at \$1,800, which were reported under New York, were taken off the coast of Florida; and 830 pounds of bluefish, valued at \$123; 6,750 pounds of shad, valued at \$900; 2,141 pounds of Spanish mackerel, valued at \$145; and 222,658 pounds of shrimp, valued at \$9,132 which were reported under New Jersey, were also taken off the coast of Florida.

Fisheries of the Middle Atlantic States, 1930—Continued PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

	New	York	New J	Versey	Dela	ware	То	tal
Product	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value
Crabs:	ne isak		7.5					
	405 490	00 710	750 100	200 007				400 000
	495, 432	\$8,716					1, 251, 600	
Rock do	7 000	80	1, 303, 950	27, 548	242, 190	\$1, 265	1, 546, 140	28, 813
	1,920						1,920	
Softdodo	16, 728	1,704	317, 472	15, 173	71, 400	4,850	405, 600	21, 727
Hard, publicbushels	00 104	050 000	105 101	210 000		0 700		
	88, 184	358, 302		648, 098	2, 313			1, 010, 190
Hard, privatedo	4, 618	18, 122		25, 058	7.50	2,001		
Soft, public do	33, 465			87,808			85, 851	
Soft, privatedo	13	12		*********				12
Surf or skimmersdo	24, 272	34, 639		15, 281			35, 244	
Conchsdo	1, 957				*******		1, 957	
Musselsdo	27, 150	11, 985	420	282	1,950	1,875	29, 520	14, 142
Oysters:	No. of the		A Transaction					
Market, public, spring				- 6			100	
bushels	1, 252			5, 671	********		5, 723	
Market, public, falldo	1,074	1,858	14, 415	16, 613	22, 196	18, 942	37, 685	37, 413
Market, private, spring	077 007		101 511	**** ***	0 740	0.00=		
bushels		1, 123, 278					1, 115, 887	
Market, private, fall_do		1, 045, 663		1, 238, 752			1, 627, 166	
Seed, public, springdo	18, 960		4, 138, 216				4, 326, 976	
Seed, public, falldo	13, 745				16, 750	4, 501	48, 896	
Seed, private, spring_do	105, 554						203, 186	
Seed, private, falldo	407, 801	381, 550	889	300			408, 690	381, 850
Scallops:	00 110	*** ***						
Bay	66, 118						66, 118	115, 274
Seado	223, 077	230, 746	27, 350	33, 342			250, 427	264, 088

Industries related to the fisheries of the Middle Atlantic States, 1930

Item	New York	New Jersey	Pennsyl- vania	Delaware	Total
Transporting: Persons engaged— On vessels On boats		Number 35 117	Number	Number 5	Number 101 117
Total	61	152		5	218
Vessels— Motor———————————Net tonnage———————————————————————————————————	24 357	10 159		1 9	35 525
Boats Wholesale and manufacturing: Establishments		176 124	56	18	176 444
Persons engaged— Proprietors	257 677	165 141	86 124	23 22	531 964
Average for season Average for year	1,686	1, 536 929	540 453	330 130	4, 254 3, 198
Salaries and wages paid	\$5, 420, 042 \$8, 987, 601	\$1, 242, 574 \$3, 649, 260	\$1, 163, 278 \$2, 027, 205	\$130, 186 \$757, 259	\$7, 956, 080 \$15, 421, 325
Persons engaged Products.	\$412, 162	\$40, 847		39 \$7, 104	592 \$460, 113

¹ These production figures are not comparable with those shown in previous bulletins since packaged fresh and frozen fishery products are now included.

NOTE.—Of the total number of persons employed on transporting craft, 124 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 545 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NEW YORK

Fisheries of New York, 1930 OPERATING UNITS: BY GEAR

	Purse	seines	West		Gill	nets	
Item	Men- haden	Other	Haul seines	Anchor	Drift	Run- around	Stake
Fishermen: On vessels On boats and shore— Regular	Number 67	Number 12	Number 151	Number 2	Number 37	Number 16	Number 40
Casual			186	33	203	6	71
Total. Vessels: Motor— 5 to 10 tons 11 to 20 tons. 21 to 30 tons 41 to 50 tons 61 to 70 tons.	67 3 1	12	337	1	258	5 1	111
Total Net tonnage	4 67	1 29		1 7	4 142	6 51	
Boats: Motor Other Accessory boats Apparatus: Number Length, yards Square yards	7 1,340	2 1 400	16 133 141 20, 503	15 18 198 34, 387	20 97 16 581 450, 986	25 10 1 40 71,620	11 83 110 35, 819
		Li	nes				
Item	Hand	Trawl	Trot, with hooks	Troll	Pound nets	Float- ing traps	Stop nets
Fishermen: On vessels	Number 20	Number 91	Number	Number	Number 6	Number	Number
On boats and shore— Regular Casual	37 16	134 7	2 16	7 2	142 12	10	27
Total	73	232	18	9	160	10	34
Vessels:	4	12 4 1 1			3		
Total Net tonnage	5 53	19 264			3 18		
Boats: Motor Other Accessory boats Apparatus:	41 12	55 9 50	15	5	49 120	2 5	3 19
Apparatus: Number Square yards Hooks, baits, or snoods	90 128	1, 897 279, 225	15 2, 640	20	418	9	18 13, 170

Fisheries of New York, 1930—Continued

OPERATING UNITS: BY GEAR-Continued

	1					0	tter trav	vls
Item	Fyke nets	Dip nets	Scap	Drag nets	Push nets	Fish	Scal- lop	Shrimp
Fishermen: On vessels On boats and shore —	Number 9	Number	Number	Number 2	Number	Number 154	Number 3	Number
Regular Casual	87 74	52 13	4 154	16 2	25 4	97 14		
Total	170	65	158	20	29	265	3	4
Vessels: Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 61 to 70 tons	5			1		35 10 3 1	í	i
Total Net tonnage	5 35			1 10		49 555	1 13	12
Sail—21 to 30 tons						1 27		
Total vessels Total net tonnage	5 35	* ******		1 10		50 582	1 13	1 12
Boats: Motor Other Accessory boats	32 103 2	4 52	96	2 12	24	64		
Apparatus: Number Yards at mouth	2, 412	65	158	18 32	29	114 2, 887	$\begin{array}{c} 1 \\ 12 \end{array}$	1 30

		Pots		Har-	0	Dre	dges
Item	Crab	Eel	Lobster	poons	Spears	Clam	Mussel
Fishermen: On vesselsOn boats and shore—	Number	Number 4	Number 9	Number 33	Number	Number 14	Number 18
Regular	4 2	109 34	167 22	26	82 57	9	
Total	6	147	198	59	139	26	18
Vessels:			6	4 1 1		6 1	3
Total Net tonnage		2 16	6 42	6 115		7 55	64
Sail—21 to 30 tons Net tonnage				1 27			
Total vessels Total net tonnage		2 16	6 42	7 142		7 55	64
Boats: Motor Other Accessory boats	2 2	46 82	126 2	13 12 6	2 121	8	
Apparatus: Number Yards at mouth	54	4, 391	17, 841	21	139	16 16	8

Fisheries of New York, 1930—Continued OPERATING UNITS: By GEAR—Continued

	Dredges-	-Contd.		70.	Therebear	D- 1-1	Total, exclusive of
Item	Oyster	Scallop	Tongs	Rakes	Forks	By hand	duplica- tion
Fishermen: On vessels	Number 221	Number 152	Number 57	Number 2	Number	Number	Number 707
On boats and shore— Regular Casual	8 2	203 152	445 112	311 141	283 176	83 37	1, 236 1, 157
Total	231	507	614	454	459	120	3, 100
Vessels: Steam—31 to 40 tons Net tonnage	1 36		100				1 36
Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons 51 to 60 tons 61 to 70 tons	14 17 12 2 2 2	19 13 3	26	1			94 44 21 2 4 2 1
Total Net tonnage	48 882	35 407	26 164	1 6			168 2, 275
Sail— 5 to 10 tons 11 to 20 tons 21 to 30 tons		7	1				8 1 1
Total Net tonnage		8 55	1 6				10 88
Total vessels	49 918	43 462	27 170	1 6			179 2, 399
Boats: Motor Other Accessory boats		30 158	182 306	155 270	39	i	562 1, 080 79
Apparatus: Number	105 144	1, 210 1, 196	605	455	456		

CATCH: BY GEAR

Consider		Purse s	seines		TT 1		Gill nets— Anchor	
Species	Menh	aden	Ot	her	Haul se	eines		
			Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBluefish					470, 336 6, 030	\$6, 279 1, 054	41 570	\$6, 217
Carp						9, 649		
Catfish and bullheads					2, 286	440		
Cod						105		-
Eels					107, 430	2, 985		
Flounders					5, 300	530		
Menhaden								
Minnows					147, 494	4, 368		
Mummichog								
Pike or pickerel					400	54		
Scup or porgy				\$7,500				
Sea robinShad						000	400	10
ShadSilversides					1, 148	223		
					260, 370 2, 500	12, 391 750		20
Squeteagues or "sea trout," gray				5, 000		5, 283		
Striped bass			200, 000	0,000	41, 380	8, 548		
Sturgeon					75	15		135
Suckers						1.017		
Sunfish					661	72		
Whitebait					95, 800	7, 140		
White perch					3, 170	664		282
Yellow perch			-4			35		
Shrimp					400	60		
Total	4, 475, 640	18, 183	700, 000	12, 500	1, 348, 105	68, 584	133, 023	18, 873

Fisheries of New York, 1930—Continued CATCH: By GEAR—Continued

		Gil	l nets—C	ontinued				
Species	Dri	ft	Runar	ound	Stal	ce	Lines—	Hand
	Pounds		Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBluefishButterfish	10, 800 6, 050	\$226 825	292, 580 5, 000	\$25, 112 448	400 1, 900	\$24 130	178, 020	\$17, 948
Carp	1, 426	225	3,000		8, 059	1, 158	152, 617	6, 730
Flounders							30, 450 9, 000	522 110
Mackerel Pollock	195, 460						8, 500 91, 575	2, 498
Sea bass	148, 372	24, 168			150	3, 763	102, 350	2, 498 1, 016 11, 795
ShadSqueteagues or "sea trout," gray Striped bass	550	75	103, 285 1, 000	8, 604 120	17, 173 16, 800 344	775 114	27, 880	2, 703
SturgeonSuckers	1, 211	401			225 755	59 85		
Tautog_ Tuna or "horse mackerel" White perch	220	15			1 409		26, 100	1, 980
Total	364, 089	32, 023	401, 865	34, 284	1, 483	6, 268		46, 429
Species	Tra	Trawl		, with	Tr	oll	Pound	nets
The Control of the Co		T7-1	D de	Pounds Value		Tralma	Doumdo	Value
AlbacoreAlewives.	Pounds				Pounas	v atue	Pounds 59, 900 89, 950	Value \$2,050 1,041
Bluefish Bonito						\$542	289, 748 186, 589	25, 814 13, 73
Butterfish			32				689, 105	53, 12
Catfish and bullheads	1, 621, 294	\$59,09	5, 57				37, 159	1, 65 23, 32
EelsFloundersGrayfish	300	3	0				263, 892	10, 43
Haddock Hake	31, 895 23, 112	1, 25	9					
Herring, sea							32, 456 13, 976 239, 300 124, 000	674 1, 817 13, 022
Monhodon							124, 000 391, 445	1, 240 19, 928
Seup or porgySea bassSea robin							48, 886 11, 139	4, 753
ShadSharks							283 450 150	23
Spot			1				3, 878 471, 227	30, 30
Squeteagues or "sea trout," gray_ Striped bass Tautog							13, 893 38, 035	1,380
Tilefish	2, 312, 200						19, 380 750	2, 28
Whiting							337, 940 7, 334	10, 14
Crabe hard		100000000000000000000000000000000000000	And the second second second					
Crabs, hard	4, 025, 90		5, 96	1 1, 168	4, 980	542	473, 597	19, 94

Fisheries of New York, 1930-Continued

CATCH: BY GEAR-Continued

Species	Floating	g traps	Stop	nets	Fyke	nets	Dip	nets
Alewives	Pounds	Value	Pounds 234	Value \$7	Pounds 19,067	Value \$250	Pounds	Value
Butterfish	45, 686	\$4,569				*******		
CarpCatfish and bullheads			44, 450 1, 800			871 2,300		
Cod	496	27						
Eels	137, 850	8, 960			3, 860 1, 387, 440	614 26, 528		
Flounders	526	26			1, 507, 440	20,020		*******
King whiting or "kingfish"	45	4						
Mackerel Pike or pickerel	21, 475		53	5	90	21		
Pollock	3, 520	70		-				
Scup or porgy	31, 561	1, 262						
Sea bass	35, 777 3, 115	2, 503 62						
Shad				9				
Skates	3, 013	90					200	\$10
Squeteagues or "sea trout," gray	509	74						
Striped bass			200			0 261		
SuckersSunfish			3, 261	383	1, 065			
Tautog	1, 157				7, 900			
Tomcod White perch					120, 678 10, 356	4, 799 1, 779		
Whiting	11, 327	227						
Yellow perch					3, 931	463		
Crabs: Hard Soft					36, 975	1, 110	43, 100 5, 576	
Shrimp							510	
SquidScallops, bay		1,810					11, 130	2, 340
Total	356, 444	20, 864	50, 095	6, 880	1, 633, 445	41, 972	60, 516	7,878

	0		D		Devel			Otter t	rawls	
Species	Scap	nets	Drag	nets	Push	nets	Fis	h	Scal	lop
					Pounds	Value	Pounds	Value	Pounds	Value
Alewives	40, 907	\$2, 226								
Bluefish							200			
Butterfish							3,000	299		
Carp	38, 959	4, 676								
Catfish and bullheads	577									
Cod							986, 890			
Croaker							325, 000	8, 125		
Eels	117	22								
Floundecs							4, 667, 957			
Haddork							2, 535, 760	75, 583		
Hake							110, 117			
Halibut							4, 895	968		
Minnows	200	70								
Mummichog					40	\$4				
Pike or pickerel	162	28								
Pollock							16, 335	219		
Rosefish							1, 375	41		
Scup or porgy							151, 025	1, 546	Daniel Control	
Sea bass							31,688			
Shad									7707	
Silversides					40	4				
Smelt	350	88								
Squeteagues or "sea trout,"	1 500									
gray					10000		1,520	50		HALL .
Striped bass							200			
Suckers	7, 757	1 118					200			
Sunfish	265	28							4000000	
Tautog	200	20					8, 985	356		
Tomcod	127	19					0, 000	300		
White perch	2, 183									
Wolffish	2, 100	100					6, 425	113		
Yellow perch	884	107					0, 420	110		
Crabs, hard			67 500	\$9 095						
Lobsters			07,000	\$2,020			400	120		
Shrimp			40 600	19 400	20	8	400	120		
Clams, soft, private					20	0	192	10		
Conchs							1, 710			
Scallops:							1,710	152		
Bay					99 500	4 040	4			
				1, 756	23, 580	4,840			19 500	01 07
									13, 500	
Total	92, 614	8, 693	125, 002	16, 181	23, 680	4.856	8, 853, 674	286, 945	13, 500	1 875

Fisheries of New York, 1930-Continued

CATCH: BY GEAR-Continued

			CA	TCE	I: BY	GEA	R-	-Con	tinı	ned				
	Ott	ter tr	awl	ls-			71		Po	ots				
Species		Shri	mp		Cı	ab			E	el	L	obster	Harp	oons
Eels		unds	Va	lue I	Pound	Va	lue	Pour 267,	nds 664	Value \$36, 92 263	Poun	ds Value	Pounds	
Flounders Mummichog Sea bass Swordfish								23,	495	2, 24	101, 0	33, 661	234, 140	\$37,887
Crabs: Hard Rock Lobsters Shrimp									640	80	3, 6	A THE PARTY		
Total	4	5, 000	1,	800	5, 68	5	753	293,	199	39, 50	4 640, 6	391 140, 398	234, 140	37, 887
	h									Dred	lges		Rest Inc.	
Species	Sp	ears		(Clam			Mus	sel		Oys	ter	Scal	lop
Eels	Lbs. 65, 924	Val. \$10, 9	907						Val	ue Po	unds	Value	Pounds	Value
FloundersClams: Hard, privateSurf or skimmersConchs	100			224, 9		340					1, 200	\$500		
Mussels							235.	4001\$	10. 7	62	21, 600	648	33, 516	\$2,793
Oysters: Market, private, spring. Market, private, fall. Seed, public, fall.										4, 7	56 998	1, 111, 178 1, 030, 107 450 130, 006		
Seed, public, fall Seed, private, spring Seed, private, fall Scallops: Bay										2,8	38, 878 54, 610	130, 006 381, 550		106, 763
Sea	71 230			994 0			_		_			2 654 439	1, 317, 060	227, 115
	11, 200	11,	+		1				_				1	
Species					Tongs	3		F	Rake	es	F	orks	Byh	and
Crabs, hardClams:				Pour	200		2		00	\$7		8 Value		
Hard, public Hard, private Razor				382, 44,	588 10 980	65, 01 17, 62	19					\$756		
Soft, public Surf or skimmers Mussels						16, 29	9 -	137, 25	50	13, 088	364, 72	\$756 57,360	8,000	250
Market, public, sprii Market, public, fall	ing			8, 7, 37,	767 521 800	2, 16 1, 85 12, 10	8							
Market, private, fall Seed, public, spring Seed, public, fall Scallops, bay				48, 62, 67,	720 515	15, 55 8, 97 9, 67	5	70, 00 12, 60 2, 26	00 00 38	8, 500 1, 700 689	54, 40	4 62, 588	11, 900 2, 100	1, 635 642
Bloodworms Sandworms											58, 42	61, 170		
Total				733,	071 24	19, 59	3 5	594, 03	38 1	199, 175	480, 62	9 181, 874	61, 848	20, 623

Fisheries of New York, 1930-Continued CATCH: BY GEAR-Continued

Species	Floating	g traps	Stop	nets	Fyke	nets	Dip nets		
Alewives	Pounds		Pounds 234	Value 87	Pounds 19,067		Pounds		
ButterfishCarpCatfish and bullheads	45, 686	\$4,569	44, 450 1, 800	6, 189 225	7, 663 12, 791	871			
Cod Eels	496	27			3,860	614	*******	*******	
Flounders	137, 850 526				1, 387, 440		*******	*******	
King whiting or "kingfish" Mackerel Pike or pickerel	21, 475		53		90	21			
Pollock Scup or porgy	3, 520 31, 561	70 1, 262	*******				*******		
Sea bass	35, 777 3, 115	62			*********		*******		
Shad	3, 013						200	\$10	
Squeteagues or "sea trout," gray Striped bass	509	74	200	60	12				
SuckersSunfish			3, 261	383	21, 617 1, 065 7, 900	109			
Tautog Tomcod White perch	1, 157			******	120, 678 10, 356	4, 799			
Whiting. Yellow perch	11, 327	227		*******	3, 931			******	
Crabs: Hard					36, 975	1, 110		3, 77	
Soft	40.505	1 010				*******	5, 576 510	1, 70	
Scallops, bay	60, 387			******		*******	11, 130	2, 34	
Total	356, 444	20, 864	50, 095	6,880	1, 633, 445	41,972	60, 516	7,878	

			**					Otter t	rawls	
Species	Scap	nets	Drag	nets	Push	nets	Fis	h	Scal	lop
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Alewives	40, 907	\$2, 226								
Bluefish							200	\$15		
Butterfish							3,000			
Carp		4,676								
Catfish and bullheads	577									
Cod							986, 890			
Croaker							325, 000			
Eels	117	99					040,000	Oy Law		
	1.17	24		****			4, 667, 957	100 741	*****	
Floundecs										-
Hadderk							2, 535, 760			
Hake							110, 117			
Halibut						× * * × * *	4, 895			-
Minnows	200									****
Mummichog					40	54				
Pike or pickerel	162	28								
Pollock							16, 335			
Rosefish							1,375			
Scup or porgy							151, 025	1,546		
Sea bass							31,688	1,756		
Shad	126	56								
Silversides					40	4				
Smelt	350	88								
Squeteagues or "sea trout,"		- 7.0								
gray							1, 520	50		
Striped bass							200	9		
Suckers	7, 757	1, 118								
Sunfish	265					*****				
Tautog	200	40					8, 985			
Tomcod	127	10					0,000	300		
White perch	2, 183			*****						
Wolffish	COM	100	******	*****			6, 425	112		
	884	107					0, 420	110		
Yellow perch				20 005				*****		
Crabs, hard					******		*********			
Lobsters			49, 600			*****	400	120		
Shrimp			49, 600	12, 400	20		*******	*****		
Clams, soft, private							192		******	
Conchs					*******		1,710	152		
Scallops:						0.000				
Bay					23, 580	4,840			******	
Sea			7,902	1,756					13, 500	\$1,87
Total	92, 614	8, 693	125, 002	16, 181	23, 680	4, 856	8, 853, 674	286, 945	13, 500	1, 87

Fisheries of New York, 1930—Continued

CATCH: BY GEAR-Continued

		•	CAT	CH:	By G	EAR-	-Co	ntini	ned				
rannes Eller sue 22	Ott	ter tr	awle					Pe	ots			last s	
Species	01	Shri	np		Crah)		E	el	L	obster	Harp	oons
Eels	Po	unds	Val	12.00		Value	267	, 664	\$36, 92	1	is Value	Pounds	Value
Flounders							23	1, 400 3, 495	26	101,0	50 \$3, 66	234, 140	
HardRock				500		\$750		640	8	3, 6		2	
Total	4	5, 000	1,8	800	5, 685	75	3 293	3, 199	39, 50	640, 6	91 140, 39	8 234, 140	37, 887
	To								Dre	dges			
Species	Sp	ears	-	Cla	am		Mu	ssel		Oyst	er	Scall	lop
EelsFlounders	Lbs. 65, 924	Val. \$10, 9	ue 907 -	Lbs.	Valu	e L	bs.	Val	ue P	ounds	Value	Pounds	Value
Flounders Clams: Hard, private Surf or skimmers	-			24, 950	\$18, 34	10				1, 200	\$500		
Conchs						235	, 400	\$10, 7	762	21, 600	648	33, 516	
spring Market, private, fall									4.	456, 998			
Seed, public, fall Seed, private, spring_ Seed, private, fall Scallops: Bay									2,	738, 878 854, 610	130, 006 381, 550		
Sea												357, 633 1, 317, 060	227, 115
Total	71, 239	11,6	317 2	24, 950	18, 34	10 235	, 400	10, 7	762 12,	781, 465	2, 654, 439	1, 708, 209	336, 671
Species				T	ongs			Rake	es	F	orks	Byh	and
Crabs, hard				Pound 20			Poun	700	\$7			Pounds	
Hard, public Hard, private				382, 58 44, 98	U 11,	ULL -	371,	220	175, 191		50 \$75	39, 848	\$18,096
Razor Soft, public Surf or skimmers				66, 32	0 16.	299 325	137,	250	13, 088	364, 72	57, 36	0	250
Mussels Oysters: Market, public, sprii	ng					166 858						8,000	250
Market, public, sprin Market, public, fall. Market, private, spri Market, private, fall. Seed, public, spring.	ing			8, 76 7, 52 37, 80 48, 16 62, 72 67, 51	0 12,	100 556 975	70,	000	8 500				
Seed, public, fall Scallops, bay				67, 51	5 9,	675	12,	600 268	8, 500 1, 700 689	54, 40		11, 900 2, 100	1, 635 642
Sandworms			-	733 07	1 240	503	504	038	100 17	58, 42	61, 17	61,848	
1 0ta1				100, 07	249,	030	004,	. 000	100, 170	100, 02	101, 07	01,040	20, 020

Fisheries of New York, 1930—Continued OPERATING UNITS: BY COUNTIES

Item	Albany	Bronx	Colum- bia	Dutch- ess	Greene	Kings	Nassau	New York	Orange
Fishermen: On vessels	Number	Number	Number	Number	Number	Number 148	Number 46	Number 130	Numbe
On boats and shore— Regular			2	2	2	187	215		
Casual	10	2	32	104	35	109	137		4
Total	10	2	34	106	37	444	398	130	43
Vessels:	-			-					
Motor— 5 to 10 tons						22	3	4	
11 to 20 tons						8	- 6	6	
21 to 30 tons						5	2	5	
31 to 40 tons 41 to 50 tons								2	
51 to 60 tons		******			*******			1	
61 to 70 tons			*******			*******	*******	1	
Total Net tonnage						35 403	11 164	20 489	
			-	-	-	-	-	-	
Sail—21 to 30 tons Net tonnage						27			
				-	-	-		200	
Total vessels Total net tonnage.			*******			36 430	164	20 489	
Boats:						91	34		
Other	7	2	19	44	27	8	205		2
Accessory boats						6	1	57	
Apparatus: Purse seines—								1000	
Other						400			
Length, yards Haul seines	2		6	5	7	5	18		1
Length, yards	216	× = × = × = ×	602	631	707	65	996		1, 22
Gill nets— Drift			1	31	1		50	420	
Square yards			2,000	96, 670	1,050		40, 400	75, 600	26, 98
Runaround Square yards							37,700		******
Stake				1	1				
Square yards				800	66			******	
Hand						38		6	
Hooks Trawl						66 68	23	12	
Hooks						79,000	48, 425	60, 900	
Trot, with hooks Hooks				710				*******	12
Troll				110		16			
Hooks						16			
Stop nets			2	2	3	*******			
Square yards			1,525	2,017	3, 464				49
Fyke nets Dip nets			33	55	37		22		
Scap nets	5		12	35	16		*******		4
Yards at mouth			*******				3 5		
Push nets							1		
Otter trawls— Fish						30	4	4	
Yards at mouth.						649	87	125	
Shrimp Yards at mouth.							30		
Pots—							-		
Eel				3		36 112	440		1
Lobster						6, 933	3, 655	******	
Harpoons Spears						11	55	2	
Dredges—							00		******
Clam Yards at mouth.					******	15 15			
Mussel						10	6		
Yards at mouth.							7	*******	
Yards at mouth							17 20	18 27	
Scallop						30	6	4	
Yards at mouth.	******	2	******			82	16 182	11	
Rakes							70		
Forks						125	143		******

Fisheries of New York, 1930—Continued OPERATING UNITS: BY COUNTES—Continued

Item	Put- nam	Queens	Rens- selaer	Rich- mond	Rock- land	Sara- toga	Suffolk	Ulster	West;
thermen: On vessels	Number	Number 2	Number	Number 2	Number	Number	Number 376	Number	Numbe
On boats and shore— Regular	1	2	18	6		3	809 409	4 146	
Total	1	4	18	14	44	3	1,594	150	- 0
nsels:	-	-	-	-	-	-	7,077	-	
Steam—31 to 40 tons Net tonnage						******	1 36	*******	
Motor-							63		
5 to 10 tons	******	1			*******		23		
21 to 30 tons							9		
41 to 50 tons							2		
51 to 60 tons							l l		
Total Net tonnage				1 7			99 1, 188		
				-			1, 100		
Sail— 5 to 10 tons							8		
11 to 20 tons							1		
Total							9		
Net tonnage							61		
Total vessels		1		1			109		
Total net tonnage.		16		7			1, 285		
its:					-				
Motor		1	15	- 8	4	3	410 597	- 4 78	,
Otheressory boats					21		15		
Purse seines—									
Menhaden Length, yards							1,340		
Haul seines.		1	3	1	3		69	å	
Length, yards		100	534	5	600		13, 486	542	79
Anchor					27		38	10	12
Square yards Drift					460		32, 129	100	1, 69
Square yards		Same.				******	7, 200	137, 536	42, 53
Runaround Square yards							33, 920		
Stake	******				10		67	18	1
Lines-							13, 280	2, 887	12, 94
Hand							46		
Trawl							50 1,766		
Hooks			******				90, 900		
Trot, with hooks					760			510	20
Troll	******	******					4		
Pound nets							414		
Floating traps							9		
Stop nets	1	******					0.00	5, 201	20
Fyke nets			23		2		2, 089	66	3
Dip nets	******					3	43		
Scap nets			12		1	3	15	61	
Yards at mouth							27		
Push nets Otter trawls—					*******	1.00	25		
Yards at mouth.		30		19			1,977		
Scallop						******	1.1		
Pots-		10000000					12		-
Crab					18				
Eel	2				35		3,718	8.	

Fisheries of New York, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Put- nam	Queens	Rens- selaer	Rich- mond	Rock- land	Sara- toga	Suffolk	Ulster	West
Apparatus-Continued.								Number	Numbe
Spears Dredges—		*******	******			******	72		
Clam	*******			1					
Mussel							2 3		
Oyster Yards at mouth.					******				
Scallop Yards at mouth.				2 4			1, 168		
Tongs						*******	418		
Forks							184		

CATCH: BY COUNTIES

	Albany		Bronx		Columbia		Dutchess		Greene	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
lewives	3, 880 150	392 23	*******		26, 220	\$1, 135 3, 104 625 40	9, 510 9, 507 1, 880 3, 844	\$585 1, 223 409 737	8, 935 20, 641 6, 026 100 100	\$404 2, 798 861 11 20
Pike or pickerel shad. striped bass	495	70			947	120	49, 164 282	8, 506 56	230	51
turgeon uckers unfish Comcod	3, 190	291			8,608	872 2 15	700 2, 937 660	210 398 72	1,461	15
White perch Yellow perch Clams, hard, public			******			339	408 584	47 103	186	2
Total	11, 215	921	160	120	76, 111	6, 252	79, 491	12, 350	37,679	4, 33

	Kin	gs	Nas	sau	New '	York	Ora	nge
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	156, 360	\$14, 269	137, 835					\$131
Butterfish Carp Catfish and bullheads			5,000	448	3,000		15, 858	2, 208
Cod	972, 975 325, 000	31, 526 8, 125	309, 735	10, 488	449, 820	11, 203	1, 327	272
Eels	17, 600 695, 750 661, 150	2, 288 23, 274 20, 655 963	45, 980 141, 950 770	7, 578 6, 852	370, 177 1, 677, 030 55, 117	12, 160 46, 295 721	1, 957	
Halibut	1,700	340	43, 350	1,018	3, 195 152, 110	628 5, 070	194	
Mummiehog Pollock Rosefish	26, 100	3, 905	23, 855	2, 244	16, 335 1, 375	219 41		
Senp or porgy	46, 500	9, 325 3, 430	250 98, 550	3, 355	550	55	9,328	2, 021
SilversidesSkates		63	20, 035 600	2,807				
Squeteagues or "sea trout," gray. Striped bass. Suckers.			26, 250 7, 600	1,601 1,900			235 8, 575	47 1, 095

Fisheries of New York, 1930-Continued

CATCH: By COUNTIES-Continued

		Kin	igs	N	Vass	au	New	York	Ora	nge
Species	Po	unds	Value	Poun	ds	Value	Pounds	Value	Pounds	Value
Swordfish	4	4, 610	\$7, 969				90, 080	\$16,061		-
Tautog		2, 500	1,575				- 600	60		
Tilefish	34	6,900	19, 103				1, 965, 300			
Tuna or "horse mackerel"							220	15		
White perch Wolffish									570	\$7
Wolffish Crabs:							6, 425	113		
Hard	The same	3, 685	503	3, 4	00	\$129	-	A STREET	o roma	
Rock				6	40	80				
Soft				2, 4	80	930				
Lobsters		5, 850	68,020	52, 4	.00	16, 487				
Shrimp				46, 1	20	2,083				
Clams:				-0-0						
Hard, public				195, 9	00	85, 609 200				
Razor				3,0		756				
Soft, public		7,700	2,360	139, 3		23, 000				
Soft, private		100	12							
Surf or skimmers	20	3, 350	16, 315	9,0	00	1,969				
Conchs	2	5, 650	2, 147							
Mussels		8,000	250	197, 5	00	8, 435				
Oysters: Market, public, fall				100.00	14	4		1		
Market, private, spring.				431.9	14	114, 450	721, 497	103, 057		
Market, private, fall				393, 7	92	91, 901	744, 198	106, 314		
Seed, public, fall				7, 7	00	825	111, 100	100, 514		
Seed, private, spring							14,000	2,000		
Seed, private, fall				550,0	00	60,000	2, 187, 010	303,000		
Scallops:	1-1-1									
Bay			145 040	6,0		1, 833				
SeaBloodworms		5, 434 8, 110	145, 343 29, 454	153, 0 14, 8		25, 500 18, 096		13, 800		
Sandworms		8, 110	29, 454	3, 7		3, 798				
Total				3, 073, 0	-	504, 078		690, 423	40, 174	6, 28
									1	
	Putr	nam	Que	eens F		ennsela	er Richmond		Rock	land
Species	Pounds	Value	Pounds	Value	Por	ınds Va	alue Poun	ds Value	Pounds	Value
	The same		And the second	100000000000000000000000000000000000000						
								1		
Alewives				5			182		. 12	\$1
Carp	210	\$31	100	\$12	10	242 1	168		- 7, 100	790
Carp Catfish and bullheads			100		10,	242 989 1,	168 364		- 7, 100 69	790 13
Carp Catfish and bullheads Eels	495	86			10,	242 989 1,	168 364 158		7, 100 69 2, 376	790
CarpCatfish and bullheads EelsFlounders	495	86	90, 000	1, 350	10,	242 989 631	168 364 158 36, 54	7 \$1,462	7, 100 69 2, 376	790
Carp	495	86	90,000	1, 350	10,	242 989 631	168 364 36, 54	7 \$1,462	7, 100 69 2, 376	790
Carp. Cathsh and bullheads Eels. Flounders. Minnows Mummichog	495	86	90,000	1, 350	10,	242 989 631	168 364 158 36, 54	7 \$1,462 0 300	7, 100 69 2, 376	790 13 28
Carp Cathsh and bullheads Eels Flounders Minnows Mummichog Pike or pickerel	495	86	90,000	1, 350	10,	242 989 631	168 364 158 36, 54 50 1, 50	7 \$1,462	7, 100 69 2, 376	790 13 28 1, 39
Carp Catfish and bullheads Eels. Flounders. Minnows Mummichog Pike or pickerel. Shad. Striped bass.	495	86	90,000	1, 350	10,	242 989 631 100 52 55	168 364 158 36, 54 50 1, 50	7 \$1,462	7, 100 69 2, 376 6, 234 820	790 13 28 1, 39 210
Carp. Catfish and bullheads Eels	495	86	90,000	1, 350	10,	242 1, 989 631 100 52 55	168 364 158 36, 54 50 1, 50	7 \$1,462	7, 100 69 2, 376 - 6, 234 820 71	790 1; 28 1, 39 21; 1, 1
Carp. Cathsh and bullheads. Eels. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon Suckers	495	86	90,000	1, 350	10, 1,	242 1, 989 631 100 52 55 731	168 364 158 36, 54 50 1, 50 8 15	7 \$1,462	7, 100 69 2, 376 6, 234 820	790
Carp Catfish and bullheads Eels	495	5	90,000	1, 350	10, 1,	242 1, 989 631 100 52 55	168 364 158 36, 54 50 1, 50	7 \$1,462	7, 100 69 2, 376 	790 13 28 1, 39 21 21 21
Carp. Cathsh and bullheads. Eels. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon. Suckers Sunfish White perch	495	86	90,000	1, 350	10, 1,	242 1, 989 631 100 52 55 731	168 364 158 36, 54 50 1, 50 8 15	7 \$1,462	7, 100 69 2, 376 6, 234 820 71 2, 125	790 1; 28 1, 39 21; 1, 21
Carp. Catfish and bullheads. Eels. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon Suckers Sunfish White perch Yellow perch	495	86	90,000	1, 350	10, 1,	242 989 631 100 52 55 731 179	168 364 	7 \$1,462 0 300	7, 100 69 2, 376 6, 234 820 71 2, 125 1, 016	7,39 21: 1,39 21: 1' 21:
Carp Catfish and bullheads. Eels. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon Suckers Sunfish White perch Yellow perch Crabs: Hard	495	5	90,000	1, 350	10, 1,	242 989 631 100 52 55 731 179	168	7 \$1,462 0 300 	7, 100 69 2, 376 6, 234 820 71 2, 125 1, 016 2, 000	7,39 21: 1,39 21: 1' 21:
Carp. Catfish and bullheads. Eels. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon Suckers. Sunfish White perch Yellow perch. Crabs: Hard Lobsters. Clams, surf or skimmers.	495 53	5	90,000	1, 350	10, 1,	242 989 631 100 52 55 731 179	168	7 \$1,462 0 300 	7, 100 69 2, 376 - 6, 234 820 71 2, 125 - 1, 016 2, 000	7,39 21: 1,39 21: 1' 21:
Carp. Catfish and bullheads. Eols. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon. Suckers Sunfish White perch Yellow perch. Crabs: Hard Lobsters. Clams, surf or skimmers. Conehs.	53	5	90,000	1, 350	10, 1,	242 989 631 100 52 55 731 179	168 364 158 36, 54 1, 50 1, 50 292 18 18 13 3, 65 22, 00 21, 60 9, 57	7 \$1,462 0 300 	- 7,100 69 - 2,376 - 6,234 - 820 - 1,016 - 2,000	790 13 28 1, 39 219
Carp. Catfish and bullheads. Eels. Flounders. Minnows Mummichog Pike or pickerel Shad. Striped bass. Sturgeon Suckers. Sunfish White perch Yellow perch. Crabs: Hard Lobsters. Clams, surf or skimmers.	495 53	5	90,000	1, 350	10, 1,	242 989 631 100 52 55 731 179	168	7 \$1,462 0 300 	- 7,100 69 - 2,376 - 6,234 - 820 - 1,016 - 2,000	799 11 288 1, 39 21 1 21

Fisheries of New York, 1930-Continued

CATCH: By counties-Continued

	Sara	toga	Suf	folk	Uls	ster	Weste	bester
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore			59, 900	\$2,050				
Alewives			540, 450	6, 266	28, 690	\$1,179	455	\$25
Bluefish			526, 885	53, 725				
Bonito			186, 589	13, 733				
Butterfish	1, 290	0150	734, 791 20, 250	13, 733 57, 698 3, 225	45 170	0 455	0.074	7 210
CarpCatfish and bullheads	1, 290	\$153	20, 250	3, 225	45, 178	6, 455 264	9, 974	1, 312
CodCod.	50	5	1,069,776	42,003	1, 223	204	1, 453	234
Eels			551, 063	64, 298	966	153	12, 265	1, 371
Flounders			5, 165, 480	171, 216	300	100	12, 200	1,011
Grayfish			1, 250	38				
Haddock			229, 475	9, 887				
Hake			22, 218 32, 456 14, 021	741				
Herring, sea. King whiting or "kingfish" Mackerel			32, 456	674				
King whiting or "kingfish"			14, 021	1,821				
Mackerel			269, 275	14, 655				
Menhaden			4, 599, 640	19, 423				
Minnows			147, 000	4, 200	300	100		
Mummichog Pike or pickerel			58, 700	2,718				
Pike or pickerel					50	10	40	11
Pollock			95, 095 432, 831	2, 568 21, 917 17, 628				
Scup or porgy Sea bass			432, 831 174, 151	21, 917				
Sea robin			14, 654	315				
Shad			2, 158	579	77, 831	11, 231	21, 215	4, 345
Sharks			450	23	11,001	11, 201	21, 210	4, 040
Silversides			239, 325	9, 525				
Skates			26, 913	330				
Smelt			2,750	780	350	- 88		
Spot Squeteagues or "sea trout," gray Striped bass			3, 878	309				
Squeteagues or "sea trout," gray			712, 118	60, 546				
Striped bass			56, 593	8, 878			910	244
Surgeon					511	191	828	192
Suckers	1, 175	135			6,710	774	6, 840	831
Sunfish					747	68	422	51
Swordfish			91, 450 59, 077	12, 950 4, 561			8,000	907
Tautog			59, 077	4, 561				
Tomcod Tuna or "horse mackerel"			120, 050	4, 751	155	17	500	35
Whiteheit			19, 380 95, 800	2, 286				
Whitebait White perch			12,000	7, 140 2, 220	2, 457	186	4, 340	422
Whiting			349, 267	10, 367	2, 407	100	4, 540	122
Whiting Yellow perch			013, 201	10,007	1, 205	138		
Crabs:					1,200	100		
Hard			152, 409	7,669				
Soft			3,096	774				
Lobsters			165, 916	46, 590			225	90
Shrimp			49, 410	12, 235 21, 757				
Squid			533, 984	21, 757				
Clams:					A STATE OF			
Hard, public			591, 408	269, 743			6, 144	2,830
Hard, private			45, 780	17, 922				
Soft, public Surf or skimmers			344, 925	45, 088				
Mussels			57, 320 66, 000	14, 330 3, 300				
Oysters:			00,000	5, 500				
Market, public, spring			8, 767	2, 166				
Market, public, fall			7, 507	1, 854				
Market, private, spring			3, 588, 382	905, 771				
Market private fall			3, 367, 168	847, 448				
Seed, public, spring			132, 720 88, 515	847, 448 17, 475				
Seed, public, fall			88, 515	12,635				
Seed, public, spring Seed, public, fall Seed, private, spring Seed, private, fall			724, 878 117, 600	12, 635 128, 006 18, 550				
Seed, private, fall			117, 600	18, 550				
Scallops: Bay			200 200	la service d				
			390, 663 297, 528	113, 441 46, 103				
Sag				40. 103				
Sea			11 455	15 020				
SeaBloodworms.			11, 455	15, 038				
Sea			11, 455 26, 302	15, 038 27, 618				

Industries related to the fisheries of New York, 1930 TRANSPORTING

Item	Nassau County	Suffolk County	Total	
Persons engaged on vessels	Number 15 Number 46		Number 61	
Vessels, motor— 5 to 10 tons	1 1 2	13 2 3	14 3 3	
Total Net tonnage	4 93	20 264	24 357	

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Albany, Dutch- ess, and Orange Counties	Bronx County	Kings and Queens Counties	Nassau County	New York County	Suffolk County	Total
Establishments Persons engaged:	5	4	22	11	178	26	246
Proprietors	4	6	23	13	187	24	257
Salaried employees Wage earners—	12	10	51	6	579	19	677
A verage for season	125	34	152	40	1, 209	285	1,845
Average for year	124	34	146	26	1, 159	197	1,686
Paid to salaried employees	\$45, 893 85, 396	\$62,750 58,660	\$203, 703 254, 517	\$9,600 29,420	\$2, 166, 945 2, 187, 755	\$61, 930 253, 473	\$2, 550, 821 2, 869, 221
Total salaries and wages	131, 289	121, 410	458, 220	39, 020	4, 354, 700	315, 403	5, 420, 042

PRODUCTS MANUFACTURED

Item	Quantity	Value
Buffalofish, smokedpounds	742, 452	\$312,043
Butterfish, smokeddodo	565, 548	168, 355
Chubs, smokeddodo	1,096,923	374, 444
Ciscoes, smokeddodo	1, 133, 405	445, 501
Cod, fresh filletsdo	1,842,400	297, 591
Eels smokeddo	2, 531	868
Flounders, fresh filletsdo	254,000	58, 170
Haddock;		
Fresh filletsdo	3, 103, 463	535, 925
Smoked filletsdo	106, 500	24, 300
Finnan haddiedo	755, 530	93, 622
Hake, fresh filletsdo	147,000	19, 777
Herring, sea, smokeddodo	176, 951	33, 949
Lake trout, smokeddo	48, 683	15, 183
Mackerel, smokeddo	133, 181	22, 988
Salmon, smokeddodo	5, 081, 491	1, 918, 417
Shad, smokeddodo	61,859	12, 441
Chamber		
Šmokeddo	1,846,724	1, 386, 646
Caviar, cannedstandard cases	7, 993	1,002,945
Tullibee, smokedpounds	763, 760	217, 857
Whitefish:		
Smoked do do	150, 719	47, 540
Caviar, cannedstandard cases	373	14, 154
Marine-shell products:		
Buttonsgross	748, 718	626,874
Novelties	(1)	131, 184
Oysters, fresh-shuckedgallons	252, 192	661,816

¹ Data not available.

Industries related to the fisheries of New York, 1930—Continued

WHOLESALE AND MANUFACTURING-Continued

PRODUCTS MANUFACTURED-Continued

Item	Quantity	Value
Unclassified products: Smoked ² pounds Canned ³ Miscellancous ⁴	42, 500 (1) (1)	\$9, 750 174, 113 381, 145
Total		8, 987, 601

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 504]

Scallops, bay, fresh-shucked gallons-Scallops, sea, fresh-shucked do-	39, 501 140, 677	\$129, 633 282, 529
Totaldo	180, 178	412, 162

1 Data not available.

4 Includes fresh pollock fillets; shucked scallops; fish meal; and fresh-water mussel-shell buttons.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 457 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NEW JERSEY

Fisheries of New Jersey, 1930

OPERATING UNITS: BY GEAR

	Purse	seines			Gill	nets		Li	nes
Item	Men- haden	Other	Haul seines	Anchor	Drift	Run- around	Stake	Hand	Trawl
Fishermen: On vesselsOn boats and shore—	Number 21	Number 137	Number	Number	Number 22	Number	Number	Number 38	Number 70
Regular Casual			74 170	4 6	122 174	129 19	41 70	193 85	280 53
Total	21	137	244	10	318	148	111	316	403
Vessels:		2 10 3			3 2			1 6 1	3 12
Total Net tonnage	1 70	15 236			5 51			8 114	15 172
Boats: Motor Other Accessory boats Apparatus:		21	20 82	4 2	121 58 3	70	35 29 14	165 13 12	159
Number Length, yards	1 456	15 5, 880	102 11,898	5	862	90	1,340	555	824
Square yards				5, 940	658, 830	405, 674	161, 823	793	503, 450

Includes smoked cod fillets, and kippered herring.
Includes canned salmon roe and caviar; canned spiced and soused salmon; canned pickled and smoked eels; canned pickled mussels; canned turtle soup and meat; canned terrapin meat and stew; and canned hard-clam products.

Fisheries of New Jersey, 1930-Continued

OPERATING UNITS: BY GEAR-Continued

	Lines-	Contd.) .Bo					
Item	Troll	Trot, with baits or snoods	Pound nets	Weirs	Stop	Fyke nets	Dip nets	Cast	Drag nets
Fishermen: On vessels	Number 5	Number	Number 253	Number	Number	Number	Number	Number	Number
On boats and shore— Regular Casual	70 35	4 3	138 19	7 23	20 86	41 85	18 19	4	4
Total	110	7	410	30	106	126	37	4	(
Vessels: Motor— 5 to 10 tons 11 to 20 tons	1		38						
Total Net tonnage	1 11		38 230						
Boats: Motor Other Accessory boats		3 1	23 1 12	4 16	9 50	32 50	10 23	1	
Apparatus: Number Square yards	304	4	181	83	60 34, 704	1,772	36	4	
Yards at mouth		1,775							17
		Otter trawls			Pots			Dre	dges
Item		Fish	Shrimp	Crab	Eel	Lobster	Spears	Clam	Crab
Fishermen: On vesselsOn boats and shore—		Number 141	Number 11	Number	Number	Number	Number	Number 180	Number 17
RegularCasual		50 1		1	76 41	257 20	43 17	10 2	
Total		192	11	1	117	277	60	192	18
Vessels:		12 16 1	2 1					5 12 2	5
31 to 40 tons								1	
TotalNet tonnage		35 640	3 27					20 310	69
		_							
Boats: Motor Other Accessory boats		21			64 26 6	156	8 51	6	1

Fisheries of New Jersey, 1930—Continued OPERATING UNITS: BY GEAR—Continued

	Dredge	s-Con.							Total, exclu-
Item	Oyster	Scallop	Tongs	Rakes	Forks	Hoes	Gaffs	By hand	sive of dupli- cation
Fishermen: On vessels	Number 2, 687	Number 41	Number	Number	Number	Number	Number	Number	Number 3, 292
On boats and shore— Regular Casual	19 6		551 326	488 211	15 3	46 30	8 24	88 76	1,747 1,177
Total	2, 712	41	877	699	18	76	32	164	6, 216
Vessels: Motor— 5 to 10 tons	43	2			10 E				106
11 to 20 tons 21 to 30 tons 31 to 40 tons	93 23 8	1							128 28 10
• 41 to 50 tons 51 to 60 tons	4 4	1							5 5 2
61 to 70 tons 71 to 80 tons	1		-,						2
Total Net tonnage	177 3, 096	4 96							286 4, 434
Sail—	-								
5 to 10 tons 11 to 20 tons 21 to 30 tons	18 20 15								18 20 15
31 to 40 tons 41 to 50 tons 51 to 60 tons	8 5 4								8
61 to 70 tons 71 to 80 tons 91 to 100 tons	5								5 1
Total Net tonnage	77 2, 085								77 2, 085
Total vessels	254	4							363
Total net tonnage	5, 181	96							6, 519
Boats: Motor Other Accessory boats	16		521 318 37	416 254 14	4 17	12 58	1	37 84	1, 379 750 121
Apparatus: Number Yards at mouth	537 634	9 29	868	667	19	74	32		

CATCH: BY GEAR

Species	1	Purse	seines				Gill nets	
	Menhaden .			Other		Haul seines		hor
Albacore	Pounds	Value	Pounds 50	Value \$3	Pounds	Value	Pounds	Value
Alewives Bluefish Bonito			908	33, 951 81	40, 986 1, 062	\$878 190	950	\$12
Butterfish Carp Catfish and bullheads			15, 670	1, 248	25, 601 11, 340	2, 938 988		
Cod Croaker Eels			132, 340	59 2, 976	44, 889 1, 050	1, 633 113		
Flounders Herring, sea			372	21	48, 900 1, 500	4, 138		
King whiting or "kingfish" Mackerel			160	13	1,605	182		
Menhaden Minnows		\$19, 250	997, 285	8, 387	18,000	220	3, 510	2

Fisheries of New Jersey, 1930-Continued

CATCH: BY GEAR-Continued

Species		Purse	seines		Haul seines		Gill nets	
Species	Menhaden		Other		Hauf Seilles		Anchor	
Mummichog	Pounds			Value	Pounds 16,000	Value \$200	Pounds	Value
ScupSea bass			3, 343, 693	\$63, 223 5, 213				
Shad	1		A STATE OF THE STA		10, 748	3,811		
Spanish mackerel			778	54	4,852	273		
Spot								1
grayStriped bass			2, 239, 720	56, 381	71, 885 7, 803	5, 879 2, 025		26
Sturgeon					128	51		
SuckersWhite perch					23, 397 27, 475	2, 290		
Yellow perch					4,800	2, 764 344		
			7, 309, 458	171, 612	362, 021	28, 947	5, 066	221
Species	Gill nets—Continued			d	ke	Lines		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	3, 648	\$148		001 074	2, 204	\$62	1, 425, 052	\$164, 635
BluefishBonito		1,511		\$21, 374	25, 689		114, 752	5, 239
Butterfish	27, 102	2, 219	2, 520	402				
CarpCatfish and bullheads	430				200	14	290	44
Cero							20,000	2,000
Cod Croaker Dolphin	60 065	2 070	200		30	3	136, 642 28, 566	3, 347 1, 168
Dolphin	00, 000	2,010	200				332	24
Eels			8	1			6, 420 32, 665	641 2, 206
Flounders Hake			462	5				2, 200
Herring, sea King whiting or "kingfish" Mackerel		3	14	1	500		100	8
Mackerel	434, 026	15, 294	164, 000	6, 400	300	10	100	
Menhaden	20,000	200	22, 065	243	'			17
PilotfishScup		61	1,000	40				1, 416
Sea bass			9 500	75			270, 934	7, 403
Shad		27, 159	2, 300		44, 829	6, 469	3, 750	95
Shapper, red							4,000	400
Snapper, red Spanish mackerel Spot			0.740	110	0.500	175	1,891 900	132 45
Squeteague or "sea trout"	89, 870	4, 529	2, 743	119	2, 500	175		
Squeteague or "sea trout," gray Striped bass	223, 900	9, 711	189, 604	7, 787	9, 406	905	77, 392	3, 529
Striped bassSturgeon	005	521			5, 784	1, 547	16, 820	817
Tautog	990	021					21, 999	879
Tautog Tuna or "horse mackerel"					46, 942	6,008	800	80
White perchYellow perch					1, 010	71		
Total				36, 455	139, 094	19 195	2, 234, 729	194, 251
Total	1, 031, 567	63, 474	044, 719	30, 400	155, 054	10, 100	2, 201, 120	101, 201

Fisheries of New Jersey, 1930—Continued CATCH: By GEAR—Continued

Species	Tra	awl	Tr	roll	Trot, w	th baits	Pound nets		
	Pounds		Pounds	Value	Pounds	Value	Pounds	Value	
Albacore				\$20 000			31, 064 576, 219	\$506 56, 064	
Bluefish Bonito					2		114, 586	7, 841	
Butterfish							2, 340, 296	173, 98	
ButterfishCod	6, 403, 463	\$194, 515					935, 563	30, 81	
Croaker	0, 100, 100	4202,020					511, 972	20, 803	
Croaker Cusk Dolphin	6,500	65					1,900	19	
Dolphin							800	16	
Drum:					1000	44.73	0 704	100	
Black							6, 784 64, 666	11 62	
Red or redfish							10, 278	11, 638	
EelsFlounders	8 000	900					401, 303	29, 370	
Goosefish	0,000	000					37, 892	1, 118	
Gravfish							11 440	229	
Grayfish Haddock Hagfish	15	1					5, 782	204	
Hagfish							7, 200	72	
Hagish Hake Herring, sea King whiting or "kingfish" Mackerel	14,000	440					5, 782 7, 200 205, 855	3, 510	
Herring, sea							587, 533	5, 87	
King whiting or "kingfish"							61, 148	6, 78	
Mackerel							55, 742	3, 699	
Menhaden							1, 208, 850	13, 226	
Mullet							150	100	
Pilotfish							2,046	106	
Pollock							2,964	111	
Scup.							2, 733, 907 1, 218, 246 117, 747 23, 559	87, 513 61, 332	
Sea bass Sea robin							117 747	1, 946	
Shad							23 559	3, 641	
Shad Sharks Skates Spanish mackerel Spot							175, 669	3, 699	
Skates	31, 636	907					204, 905	3, 366	
Spanish mackerel	01,000		250	13			12, 920	1, 297	
Spot							437, 336	17, 340	
Squeteague or "sea trout."									
Spot Squeteague or "sea trout," gray							8, 054, 464	264, 131	
Striped bass							5, 105	971	
Sturgeon							280	200	
Tautog							133, 650	4, 462	
Thimble-eyed mackerel Tuna or ''horse mackerel''							35, 722	1, 115	
Tuna or "horse mackerel"							36, 762	2, 393	
White perch							2,020	80	
Whiting Crabs:							3, 754, 942	59, 428	
Hard			January 1		15 059	\$1,333	Section 1	Carried A	
King						φ1, 000	1, 247, 000	11, 489	
Soft						55	1, 211, 000	11, 100	
Squid						00	1, 233, 326	32, 882	
Turtles:					-		2, 200, 020	02,002	
Loggerhead							800	24	
Snapper							1,800	27	
				-	-				
Total	6, 463, 614	196, 728	334, 927	30, 835	15, 206	1, 388	26, 612, 193	924, 487	
Species	Wei	irs	Stop 1	Stop nets		nets	Dip nets		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Alewives			4, 284	\$690	1, 413, 000	\$14, 150			
Carp			71,889	9, 716					
Catfish and bullheads			1, 190	111	23, 617	1,848			
Croaker	1,560	\$60							
Eels	1 500				41, 312				
Flounders	1, 500	105			157, 330	6,897			
Herring, sea	1 690	01			70,800	758			
SpotSqueteague or "sea trout,"	1, 620	81							
gray	1,880	94							
Striped bass	2,000	0.1			1, 350	401			
Suckers			3, 786	490	392	47			
White perch			0,100	100	68, 800	8, 250			
Yellow perch					173, 400	14, 218			
Crabs:					,	,			
Hard							23,000	\$1,419	
King	3, 967, 500	15, 903							
Soft							19,016	7, 318	
Turtles, snapper					1,700	196			
Total	3, 974, 060	16, 243	81, 149	11,007	1, 951, 701	52, 656	42, 016	8, 737	
						1			

Fisheries of New Jersey, 1930—Continued

CATCH: BY GEAR-Continued

Species	Cont	nets	Dro	Drag nets		Otter trawls				
o pecies	Cast	петя	Dra			Fish		Shrimp		
Bluefish	Pounds	Value	Pounds	Valu			Pounds	Value		
Butterfish					1, 223 8, 233	\$127 755				
Carp	2, 222	\$400	1		0, 200	100				
Cod	2, 222	4100			298, 843	6, 933				
Croaker					650, 285					
Drum:	1 171 7				000, 200	22,110				
Black					120	9				
Red or redfish					258					
Eels					25	3				
Flounders						104, 312				
Grunts					150					
Hake					2, 430	47				
King whiting or "kingfish".					5, 800					
Mackerel					1,800	36				
Mullet					3, 300					
Scup					190 1, 412, 081	16 31, 013				
Sea bass					691, 991	19,000				
Shad					3					
Sharks					800					
Skates					800	12				
					2, 795					
Spot					228, 991	9, 401				
Sturgeon					2, 805	1, 015				
Tautog					7, 507	218				
White perch					4, 119	124				
Whiting					9,000	140				
Lobsters					2, 200	555				
Shrimp			21, 168	\$5, 29	2 51,700	2,061	172, 658	\$7, 132		
Squid					6, 198	137				
Total	2, 222	400	21, 168	5, 29	2 5, 669, 921	198, 391	172, 658	7, 132		
			Po	ots		-				
Species	Cr	a h	E	e]	Lob	Spear		irs		
EelsSea bass	Pounds	Value	Pounds 323, 234	Value \$32, 965	1, 050	Value \$84 41, 337	Pounds 156, 380	Value \$17, 883		
Tautog					18, 810	556				
Crabs, hard	148	\$6			9, 570	698				
Lobsters					_ 1, 008, 379	229, 555				
Total	148	6	323, 234	32, 965		272, 230	156, 380	17, 883		
10001	140	0	020, 201	02, 000	2, 110, 112	272, 200	100, 000			
				Di	edges					
			Crab			Oyster		Scallop		
Species	Cla	m	Cral)	Oys	ter	Scal			
	Cla	m Value	Pounds	Value	Oys Pounds	ter Value	Pounds	Value		
Orabs, hard	Pounds	Value	Pounds					Value		
Crabs, hardDlams: Hard, public	Pounds 100, 592	Value \$6,469	Pounds 204, 280 \$	Value 16, 851	Pounds	Value	Pounds			
Crabs, hard Clams: Hard, public Hard, private	Pounds 100, 592 88, 590	Value \$6,469 16,650	Pounds 204, 280 \$	Value			Pounds			
Crabs, hard	Pounds 100, 592 88, 590	Value \$6,469 16,650	Pounds 204, 280 \$	Value 16, 851	Pounds 3, 552	Value	Pounds			
Crabs, hard	Pounds 100, 592 88, 590 131, 670	Value \$6,469 16,650 15,281	Pounds 204, 280 \$	Value 16, 851	Pounds 3, 552	\$1,475	Pounds			
Crabs, hard	Pounds 100, 592 88, 590 131, 670	Value \$6,469 16,650 15,281	Pounds 204, 280 \$	Value 16, 851	Pounds 3, 552 1, 812 3, 445, 557	\$1,475	Pounds			
Crabs, hard	Pounds 100, 592 88, 590 131, 670	Value \$6,469 16,650 15,281	Pounds 204, 280 \$	Value 16, 851	3,552 1,812 3,445,557 7,654,070	\$1,475	Pounds			
Crabs, hard Clams: Hard, public Hard, private Surf or skimmer Dysters: Market, public, fall Market, private, spring Seed public spring	Pounds 100, 592 88, 590 131, 670	Value \$6, 469 16, 650 15, 281	Pounds 204, 280 \$	Value 16, 851	7, 812 3, 445, 557 7, 654, 070 18, 444, 424	\$1,475 540,516 1,158,462 2,401,056	Pounds			
Crabs, hard	Pounds 100, 592 88, 590 131, 670	Value \$6,469 16,650 15,281	Pounds 204, 280 \$	Value 16, 851	3,552 1,812 3,445,557 7,654,070	\$1,475	Pounds			
Crabs, hard	Pounds 100, 592 88, 590 131, 670	Value \$6,469 16,650 15,281	Pounds 204, 280 \$	Value 16, 851	7, 812 3, 445, 557 7, 654, 070 18, 444, 424	\$1,475 540,516 1,158,462 2,401,056	Pounds			
Crabs, hard	Pounds 100, 592 88, 590 131, 670	Value \$6,469 16,650 15,281	Pounds 204, 280 \$	Value 16, 851	7, 552 1, 812 3, 445, 557 7, 654, 070 18, 444, 424 186, 200	\$1,475 540,516 1,158,462 2,401,056	Pounds			

Fisheries of New Jersey, 1930-Continued

CATCH: BY GEAR-Continued

Species	Ton	igs	Rak	res -	Forks		
Clams: Hard, public————————————————————————————————————	Pounds 814, 856 4, 672	Value \$375, 155 2, 083	Pounds 575, 687 54, 096	Value \$235, 745 4, 850	Pounds	Value	
Soft, public			135, 787	18, 581	124, 831	\$17, 20	
Mussels. Oysters: Market, public, spring. Market, priblic, fall. Market, private, spring. Market, private, fall. Seed, public, spring. Seed, public, fall. Seed, private, spring. Seed, private, spring.	36, 166 112, 476 200, 160 333, 180 138, 914 82, 804 106, 555 4, 000	5, 414 14, 709 44, 892 74, 782 15, 378 9, 959 13, 636 300	109 218 7, 564 18, 176 38, 632 123, 738	16 34 1, 819 4, 533 4, 948			
Total	1, 833, 983	556, 310	954, 007	281, 386	124, 831	17, 20	
Species	Hoe	es	Gaf	fs	Byh	and	
Crabs: King	Pounds	Value	Pounds	Value	Pounds 1, 300	Value \$150	
Soft	86, 660	\$7,800					
	6, 080 234, 679	871 32, 250			64, 341 133, 331 4, 000	29, 858 19, 772 280	
Oysters: Market, public, spring Market, public, fall. Market, private, spring Market, private, fall.					1, 327 6, 720 2, 890 4, 570	241 1,600 728 978	
Seed, private, spring Terrapin, diamond-back Turtles:			215	\$414	22, 850 5, 826	1, 918 6, 658	
Loggerhead			105 3, 930	7 358			
Total	327, 419	40, 921	4, 250	779	247, 155	62, 163	

OPERATING UNITS: BY COUNTIES

Item	Atlantic	Bergen	Burling- ton	Camden	Cape May	Cumber- land	Glou- cester
Fishermen: On vesselsOn boats and shore—	Number 86	Number 3	Number 3	Number	Number 336	Number 2, 663	Number
Regular Casual	292 160	2 20	64 74	2 9	410 260	81 172	1 51
Total	538	25	141	11	1,006	2, 916	52
Vessels: Motor— 5 to 10 tons					32 17 3 2 1 1 1	36 92 23 8 4 4 1	
Total Net tonnage		1 15	1 11		58 846	169 3, 033	
Sail— 5 to 10 tons						18 20 15 8 5	

Fisheries of New Jersey, 1930—Continued

OPERATING UNITS: BY COUNTIES-Continued

Item	Atlantic	Bergen	Burling- ton	Camden	Cape May	Cumber- land	Glou- cester
Vessels—Continued. Sail—Continued. 61 to 70 tons. 71 to 80 tons. 91 to 100 tons.	Number	Number	Number	Number	Number	Number 5 1 1	Number
Total Net tonnage						77 2, 085	
Total vessels	18 250	1 15	1 11		58 846	246 5, 118	
Boats: Motor Other. Accessory boats Apparatus: Purse seines—	224 184 28	7	87 34	4	324 156 45	103 77 11	20
Menhaden Length, yards Other Length, yards Haul seines Length, yards	1,600 22 1,818		19 1,980	4 445	456 11 4, 280 14 853	12 1,410	245
Length, yardsGill nets— Anchor Square yards Drift Square yards.	214 47, 720		1, 980 1 840 21 23, 195	110	472 211, 148	100 88, 500	16
Runaround	64 3, 072	7 16, 360	6 198		6 600	4, 400 60 7, 672	
Hand	39 70 178 114, 200 17 17				177 335 344 228, 200 283 295	9,650 4	
Trot, with baits or snoods. Baits or snoods. Pound nets. Weirs. Stop nets	2		7	1	93 65	3 775 18 19	
Square yards Fyke nets Dip nets Cast nets Otter trawls—	4 13		5, 550	45	96 6	15, 800 185 2	2, 500
Fish Yards at mouth Shrimp Yards at mouth Yards at mouth	19 471				42 860 3 72		
Crab Eel Lobster Spears	12				81 508 1	20	
Dredges— Clam Yards at mouth		10			6 4	28 36	
Crab Yards at mouth Oyster Yards at mouth Scallop Yards at mouth	4 4	. 8	6 6			496 594 4 16	
Yards at mouth Tongs Rakes Hoes Gaffs	325 273 14		83 63		134 121	101	

Fisheries of New Jersey, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Hudson	Hunter- don	Mercer	Middle- sex	Mon- mouth	Ocean	Salem	Union
Fishermen: On vessels	Number	Number	Number	Number 3	Number 48	Number 150	Number	Number
On boats and shore— Regular————————————————————————————————————	2	28	21	6 7	551 90	304 211	32 73	·····i
Total	2	28	21	16	689	665	105	1
Vessels:				2	8 3	26	LEN TO	
Total Net tonnage				2 13	11 102	26 164		
Boats:	0			7				179,10
Motor	2 1	9	3	1 3	254 150 13	325 81 10	36 31	1
Haul seines Length, yards Gill nets—		7 1, 225	5 950			2, 162	8 810	
Anchor Square yards					5, 100			
Square yards Runaround.				4	47, 800 42	40	226, 937	
Square yards Stake Square yards				9, 910 2 720	129, 564	261, 800 1, 195 133, 201		
Lines— Hand Hooks					210 216	80 86	1 2	4
TrawlHooks Trot, with baits or snoods					135 74, 400	153 77, 000	1	
Baits or snoods Pound nets Stop nets					48	38	1,000	
Square yards Fyke nets			25		51	876	10, 809 299	
Dip nets Drag nets Yards at mouth					9	5 6 17	1	
Pots— Eel Lobster	200			144 100	2, 727 21, 112	1, 800 12, 200		
Spears Dredges— Clam				6	35 16	15		
Yards at mouth Crab Yards at mouth				6 8 8	16 35 43			
Oyster Yards at mouth Scallop						31 30		
Yards at mouth					5 13 19	206		
Rakes Forks Hoes					49 19 56	161		
Gaffs							15	

Fisheries of New Jersey, 1930-Continued

CATCH: BY COUNTIES

Species	Atlan	tic	Berg	en	Burlin	ngton	Came	den	Cape May	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore									. 50	\$
Alewives	114, 247	A10 000			2, 454	\$62	96	\$5	4,000	20
Bluefish	114, 247	\$16, 223								
Bonito	28 940	2 175							20, 480 942, 307	
Butterfish Carp	20, 510	2, 110			1.947	290	7,400	565	942, 307	59, 04
Catfish and bullheads					1,470	277	565	58		
Cero									20,000	2,00
Cod	2, 380, 381	61,848							3, 091, 981	2, 00 87, 20
Croaker Dolphin	107, 475	2, 002							1, 021, 530 207	
Drum:									207	1
Black									6, 904	13
Red or redfish									64, 924	11,65
Eels	55, 333 1, 162, 650	5, 055	21, 500	\$975	2, 540	279			41, 912	5, 51
FloundersGoosefish	1, 162, 650	44, 765							1, 278, 237	70, 88
Grunts									24, 564 150	98
Hake									5, 315	9
Herring, sea	20,000	215							31, 099	31
King whiting or "king-fish"	4 500	100				Juni				
Maskaral	4, 560								40, 258	4, 21
Mackerel Menhaden	176, 600	0,008						-1	193, 914 4, 833, 023	8, 54 29, 35
Minnows	16,000	200			2,000	20			4, 000, 020	29, 00
Mullet									340	2
Mummichog	16,000									
Pilotfish	300	12							1,360	5
Pollock	500, 000	0 000							200 5, 597, 253	
Sea bass	703, 500	14, 605							1, 126, 343	47, 81
Sea robin									10,000	
Shad	1,050	230	41,500	5, 684	4,865	983	2, 421	592	7,606	
Sharks	500	20							64, 906	
Skates Snapper, red	4, 450	108							90, 808 4, 000	2, 50 40
Spanish mackerel									15, 801	1,48
Spot	9,050	362							215, 679	9, 19
Squeteague or "sea					11111					
trout," gray	431, 200	17, 432			1 000				5, 689, 205	
Striped bassSturgeon	5, 641	1, 107			1, 203	602			16 2, 805	
Suckers					19, 463	2, 456	30	3	2,000	1,01
Tautog									58, 416	
Thimble-eyed mackerel.									21, 467	62
Tuna or "horse mack- erel"		-							14, 792	57
White perch	33, 087	3.630			3. 100	620			4, 269	13
Whiting	10,800	108			3, 100				90, 032	
Crabs:										
Hard	2,600	230	25,000	2, 250					18,616	
KingSoft		7 800							4,641,800	26, 89
Lobsters		1,000							2, 200	55
Shrimp									224, 358	9, 19
Squid	880	44							388, 658	11, 45
Clams:	501 400	000 070		- 656	149 600	64 200			207, 471	107 12
Hard, public Hard, private	6 208	2 788			143, 600	04, 500			80	
Surf of skimmer	0, 200	2, 100							131,670	
Mussels									4, 200	28
Oysters:		of the	MI LE	100	12.00					
Market, public,	4 057	005		1					5, 111	1, 04
Market, public, fall.	4, 057 8, 305	965 2, 085							9, 038	
Market, private,									, 550	_,
spring	164, 958	38, 781			76, 496	15, 795			3, 310	
Market, private, fall.	164, 958 257, 092 21, 942	60, 666			151, 583	31, 187			7,090	1, 57
Seed, public, spring.	21, 942	2, 768			8, 400 182, 700	2, 350			16,800 24,850	
Seed, private, spring Terrapin, diamond-back.	136, 793	16, 771			102, 700	10, 220			333	59
Turtles, snapper									1,300	
vice, comppetition									31, 104, 023	
	6, 972, 697			8,909		134, 446				

Fisheries of New Jersey, 1930-Continued

CATCH: By COUNTIES-Continued

white the state	Cumb	erland	Glou	cester	Hud	son	Hunte	rdon	Mercer	
Species	Pounds	Value	Pound	s Value	Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBluefish	3, 50 18, 51	1,8	48		1				8, 500	\$55
Butterfish Carp Catfish and bullheads	32, 22 10, 10	0 4,7	69 2, 66	03 1, 21	7		300	\$36 5		480
Cod Croaker	8, 46 62, 48		80							
Eels Flounders King whiting or "king-	5, 88 7	0 5 5	51 54	40 6	8 20,000	\$2,000			600	60
fish'' Scup or porgy	2,55		65							
Shad Spot Squeteague or "sea	42, 98 66, 95		17 2, 2,	38 43	7		3, 035	1, 049	5, 013	2, 113
trout," gray Striped bass	19, 07		55					1	100	
SturgeonSuckers	34	0	51 1	42 1	5		3, 100	230	128 4, 500	
Tautog White perch		0 4	80							
Crabs: Hard King	13, 08 574, 00	6 1, 1	98							
Clams: Hard, public Hard, private	79, 63 88, 59		110							
Oysters: Market, public,	28, 43									
Market, public, fall Market, private,	103, 88	3 12,	334							
Market, private, fall Seed, public, spring	3, 214, 85 7, 408, 14 18, 574, 82	3 1, 103, 8 2, 415,	705							
Seed, public, fall	82, 80	9,	959							
Seed, private, spring. Seed, private, fall	8,00	00	300							
Scallops, sea	58, 50	00 9,								
Terrapin, diamond-back_ Turtles: Loggerhead	. 10	05	7							
Snapper	- 78	80	72 5	000	50					
Total	30, 627, 4	4, 098,	190 23, 0	3, 14	20, 00	0 2,00	6, 48	1, 32	22, 741	2, 83
	Middle	sex	Monmou	ith	Ocea	n	Sal	em	Uni	ion
Species	Pounds	Value P	ounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
AlbacoreAlewives			27, 464	\$452	3, 600 1, 435, 800			\$2	8	
Bluefish	13, 278	2 1, 245 1,	777, 021 2 147, 242 732, 479	01, 567 7, 789	256, 095 61, 724 689, 775	23, 33	3		1,600	
Butterfish					14, 110	75	46, 86 7, 38	5, 83 5 62		
Cod. Croaker Cusk		1,	44, 286 1, 900	1,744	1, 150, 311 202, 830 6, 500	8, 11	5 1, 20	7	2	
Dolphin Eels Flounders	2,950	295	238, 638	28, 824 18, 813	125 148, 161 244, 998	14, 76	7 1,69		4	
Goosefish Grayfish Haddock			13, 328 11, 440 5, 797	134 229 205						
Hagfish Hake Herring, sea			141, 766 414, 250	2,790 4,141	7, 200 75, 666 194, 484	1, 12	2			
King whiting or "king- fish". Mackerel.			7, 411	1, 007 10, 100	16, 944 17, 233	1,89	1			
Menhaden		55	890, 196	9, 872	186, 691	2, 07	0			

Fisheries of New Jersey, 1930—Continued

CATCH: BY COUNTIES-Continued

Onesates	Middlesex		Monmouth		Ocean		Salem		Union	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Pilotfish			200	0.00					-	-
Pollock			800							
Scup or porgy			552, 843		2, 704	\$104				
Sea bass			456, 323			29, 173				
Sea robin										
Sea robin			68, 125			421				
Shad			16, 405		8, 926	1, 228	87,673	\$7,230		
Sharks			52, 957			680				
Skates			82, 517	1, 124		647				
Spanish mackerel			28	8	10	2				
Spot	343	\$15	149, 264	6, 485	101, 330	3,446				
Squeteague or "sea										
trout," gray	18,838	922						37		
Striped bass			5, 089		5, 843	1,826				
Sturgeon			280				995	521		
Tautog			67,318	1,899	44, 232	1,512				
Thimble-eyed mackerel . Tuna or "horse mack- erel"			13, 962	478	293	12				
Tuna or "horse mack-	STARTING	100								
erel"			6,370	574	16,400	1,326				
White perch					105, 050	12,510				
Whiting			2,833,775	48, 782	829, 335	9,696				
Yellow perch					179, 210	14,633				
Crabs:	111111111111111111111111111111111111111			ST-SECTION ST						
Hard	9,332	700	180, 758	14, 754			2,664	200		
Soft			12, 368	4,375	6,600	2,925	196	73		
Lobsters	1, 275	370	953, 598		53, 506					
Shrimp					21, 168	5, 292				
Squid			229, 470	4,590		16, 934				
Clams:						,				
Hard, public	7, 104	1,420	107, 097	15, 907	515, 214	223.252				
Hard, private			53, 536	4,600	2, 496	1,000				
Soft, public			628, 184		444	86				
Oysters:			0=0,101	0.,,,==	***	.00				
Market, private.	100									
			6,712	1. 235	189.840	44 787				
Market, private, fall				1, 200	186, 088	41, 619				
Seed, private, spring					87 000	7 250				
Scallops, sea				23, 549						
Dyantlogs		- DEAR								
Loggerhead			800	94						
Snapper			1, 800	97			3 050	276		
опаррег			1,000	21			0,000	210		
						752, 682				

* Industries related to the fisheries of New Jersey, 1930 TRANSPORTING

Item	Atlantic County	Cape May County	Cumber- land County	Mon- mouth County	Ocean County	Total
Persons engaged: On vessels On boats	Number 5	Number	Number 26 117	Number 2	Number 2	Number 35 117
Total	5		143	2	2	152
Vessels, motor: 5 to 10 tons 11 to 20 tons 21 to 30 tons 41 to 50 tons	2		2 1 2 1	1	1	5 2 2 2 1
Total Net tonnage	2 13		6 127	1 13	1 6	10 159
Boats		1	175			176

Industries related to the fisheries of New Jersey, 1930—Continued WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Atlantic and Burlington Counties	Bergen and Hudson Counties	Camden and Glou- cester Counties	Cape May County	
Establishments		15	7	4	22
Persons engaged: ProprietorsSalaried employees			5 9	5 5	26 17
Wage earners— Average for season Average for year	36 26	63 53	89 68	104 62	
Paid to salaried employees		\$20, 260 35, 500	\$22, 940 69, 157	\$16, 300 75, 747	\$52, 230 76, 498
Total salaries and wages		55, 760	92, 097	92, 047	128, 728
Item	Cumber- land County	Essex and Passaic Counties	Monmouth County	Ocean County	Total
Establishments Persons engaged:	30	14	15	17	124
ProprietorsSalaried employees Wage earners—	54 60	17 31	18 6	19 8	165 141
Average for season	734 298	361 351	101 43	48 28	1, 536 929
Paid to salaried employeesPaid to wage earners	\$82, 587 175, 882	\$113, 145 345, 994	\$10, 778 73, 015	\$27, 020 45, 521	\$345, 260 897, 314
Total salaries and wages	258, 469	459, 139	83, 793	72, 541	1, 242, 574

PRODUCTS MANUFACTURED

Item	Quantity	Value
King crabs, dry scrap tons. Clams, soft, fresh-shucked gallons.	458 35, 064	\$17, 857 51, 766
Marine-shell products: Buttons. gross. Novelties	907, 015 (¹)	1, 149, 840 343, 244
Oysters: Fresh-shuckedgallons Shell products—	439, 824	952, 651
Poultry feed tons Lime do Miscellaneous 2	7, 008 1, 618 (¹)	72, 267 8, 158 1, 053, 477
Total		3, 649, 260

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 49]

Eels, smokedpounds	19, 617	\$7, 847
Scallops, sea, fresh-shuckedgallons	18, 000	33, 000
Total.		40, 847

¹ Data not available.

Includes cod and flounder fillets; spiced carp; smoked butterfish, carp, chub, cisco, eels, herring, mackerel, salmon, salmon trout, shad, domestic and Russian sturgeon, lake trout, tullibee, whitefish, and kippered herring; canned hard-clam chowder; king crab meal; menhaden products; and buttons from fresh-water mussels.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 119 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 49 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

PENNSYLVANIA

Fisheries of Pennsylvania, 1930

OPERATING UNITS: BY GEAR

Item	Haul seines	Gill nets, drift	Lines, hand	Fyke nets	Total, exclusive of duplication
Fishermen, on boats and shore, casual	Number 37	Number 19	Number 1	Number 1	Number 52
OtherApparatus:	10	5	1	1	14
Number. Length, yards Square yards.	1, 380	15, 690	1	30	
Hooks, baits, or snoods			1		

CATCH: BY GEAR

2	Haul seines		Gill nets, drift		Lines	, hand	Fyke nets	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	893	\$97	2, 000	\$100				
Catfish and bullheads Eels	125	13			865	\$200	1, 300	\$15
ShadSturgeon	2, 112 182	842 182	2, 743	622				
Suckers	6, 525	597						
Total	9, 837	1, 731	4, 743	722	865	200	1, 300	150

OPERATING UNITS: BY COUNTIES

Item	Bucks	Dela- ware	Philadel- phia
Fishermen on boats and shore, casual	Number 41	Number 9	Number 2
Boats: Motor	12	4 1	1
Apparatus: Haul seines	11 1, 380		
Gill nets, drift	4, 110	5 10, 530	1, 050 1
HooksFyke nets		30	1

Fisheries of Pennsylvania, 1930-Continued

CATCH: BY COUNTIES

	Buc	eks	Delay	ware	Philadelphia	
Species	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	893	\$97	2,000	\$100		
Catfish and bullheads Eels	125	13	1, 300	150	865	\$200
Shad Sturgeon	2, 720 182	1, 053 182	2, 015	363	120	48
Suckers	6, 525	597				
Total	10, 445	1, 942	5, 315	613	985	248

Industries related to the fisheries of Pennsylvania

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Berks, Dela- ware, and Lehigh Counties	Philadel- phia County	Total
Establishments Persons engaged:	3	53	56
Proprietors Salaried employees Wage earners—	5 8	81 116	86 124
Average for season Average for year	52 48	488 405	540 453
Paid to salaried employees. Paid to wage earners.	\$34, 734 36, 873	\$520, 193 571, 478	\$554, 927 608, 351
Total salaries and wages	71, 607	1, 091, 671	1, 163, 278

PRODUCTS MANUFACTURED

Item	Quantity	Value
Herring, sea, smoked	112, 000 7, 600 87, 375 35, 000 9, 234	\$9, 246 1, 600 20, 644 11, 750 23, 044
Fresh-shuckeddo	103, 605	268, 09
Poultry feed tons. Lime do Miscellaneous 1.	5, 738 1, 752 (²)	61, 091 8, 629 1, 623, 110
Total.		2, 027, 205

¹ Includes spiced alewives and herring; smoked alewives, butterfish, carp, chub, ciscoes, cod fillets, haddock fillets, herring bloaters, kippered herring, Nova Scotia herring, salmon, kippered salmon, sturgeon, lake trout, tullibee from Canada, Russian sturgeon, and finnan haddie; fish scrap; marine-shell products, and fresh-water mussel-shell products.

¹ Data not available.

DELAWARE

Fisheries of Delaware, 1930

OPERATING UNITS: BY GEAR

15.00	Purse	101		Gill nets	3		Lines	
Item	seines, men- haden	Haul seines	Drift	Run- around	Stake	Hand	Trawl	Trot, with baits or snoods
Fishermen: On yessels	Number 570	Number	Number	Number	Number	Number	Number	Number
On boats and shore— Regular Casual		124 229	37 71	42 31	31 40	31 11	8 2	<u>1</u>
Total	570	353	108	73	71	42	10	1
Vessels: Steam— 41 to 50 tons 81 to 90 tons 101 to 110 tons 111 to 120 tons 121 to 130 tons 161 to 170 tons	1 1 3 1 1 2							
171 to 180 tons 181 to 190 tons	4							
Total Net tonnage	14 1, 904							
Motor— 61 to 70 tons 101 to 110 tons	1 1							
Total Net tonnage	172							
Total vessels Total net tonnage	16 2, 076							
Boats: Motor Other Accessory boats	51	93 6	39 14 3	12 22 1	7 27 4	13 5	4 1	<u>i</u>
Apparatus: Number Length, yards	16 6, 528	87 23, 970	79	45	209	52	14	1
Square yards Hooks, baits, or snoods			211, 379	40,000	23, 424	104	6, 100	50
and the	Pound	Stop	Fyke	Dip	Cast	Pe	ots	
Item	nets	nets	nets	nets	nets	Eel	Lob- ster	Spears
Fishermen: On boats and shore—	Number	Number	Number	Number	Number	Number	Number	Number
Regular Casual	16 25	2 12	22 27	20 16	7	18 16	11 2	6
Total	41	14	49	36	7	34	13	6
Boats: Motor Other Accessory boats	15 2	9	3 15 2	1 21	4	6 17 2	4	2 3
Apparatus: NumberSquare yards	67	9 3, 368	320	36	7	775	185	6

Fisheries of Delaware, 1930—Continued OPERATING UNITS: BY GEAR—Continued

	Dredges		1330		Territoria		Total,
Item	Clam	Oyster	Tongs	Rakes	Gaffs	By hand	exclu- sive o dupli- cation
Fishermen: On vessels	Number 30	Number 90	Number	Number	Number	Number	Numbe 66
On boats and shore— Regular Casual			67 13	5	1	10	19 37
Total	30	90	80	5	1	10	* 1, 23
Vessels: Steam— 41 to 50 tons. 81 to 90 tons. 101 to 110 tons. 111 to 120 tons. 121 to 130 tons. 161 to 170 tons. 171 to 180 tons. 181 to 190 tons. Total. Net tonnage.							1,90
Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 61 to 70 tons. 101 to 110 tons.	1 1 2	2 2 2 2					
TotalNet tonnage	4 66	6 95					28
Sail— 5 to 10 tons— 11 to 20 tons————————————————————————————————————	1	3 7					
Total	1 14	10 133					13
Total vessels	5 80	16 228					2, 32
Boats: Motor Other Accessory boats Apparatus: Number Y ands at mouth	10	32	2 70 18 80	3 1 6	1	10	6 19 8

CATCH: BY GEAR

	Purse seines, menhaden					Gill	nets	
Species			Haul s	eines	Dri	Runar	ound	
AlewivesBluefish Carp					Pounds 30, 533 17, 500 2, 000	\$389 1,114		Value
Catfish and bullheadsCroaker EelsFlounders.			24, 295 398, 350 4, 282 28, 950	2, 250 9, 992 510	449, 800	9, 200	163, 880	
Gizzard shad King whiting or''kingfish'' Menhaden Mullet	41, 960, 142	\$307, 112	950 3, 080	7 119				
Shad. Spot. Squeteagues or ''sea trout,'' gray Striped bass			1, 016 3, 960 713, 350 25, 250	168 101 25, 892		6, 526 6, 817 3, 645	87, 800	
Sturgeon White perch Yellow perch Yellowtail			96, 775 32, 035					
Total	41, 960, 142	307, 112	4, 436, 168	76, 715	1, 032, 275	47, 544	314, 731	12, 178

Fisheries of Delaware, 1930-Continued

CATCH: BY GEAR-Continued

		Gillne	ets-Con	· Paris				Lin	1es			
Species		S	take		На	nd		Tra	awl		Trot, wit	th baits
		Pound	s Value			Val	ue P	ounds	Val	ue	Pounds	Value
AlewivesBluefish		88, 92 4, 90	26 \$2, 26 0 34	8	860							
Carp		14,00	0 2,04	0								
Catfish and bullheads Cod		93	1 12	6				07 144		600		
Troaker				112,	900	4,	188		φο,			
Eels Flounders		68, 55	0 4, 89								2,605	\$44
Scup		08, 00	4, 89	27.	000	2.	160					
Sea bass			-	_ 20,	250	1,	620					
Shad		7, 20	1 1,28	2	250		620					
SpotSqueteagues or "sea trout." gr	av	41, 90	0 49	0 75.	975	4.	518					
Squeteagues or "sea trout," gr Striped bass		57, 49	4 12,09	0								
Suckers Tautog		15	0	9	000							
White perch		55, 03	0 9,41									
m-4-1		200 00	0 00 05	005	00.5			07.11			0.005	1.00
Total		339, 08	2 32, 95	6 335,	235	16,	892	97, 144	٥,	600	2, 605	443
Species	Poun	d nets	Stop	nets		Fyk	e nets	D	ip n	ets	Cast	nets
	Pounds	Value	Pounds	Value	e Pe	ounds	Valu	e Pou	nds	Valu	e Pound	8 Valu
Alewives	34, 70	6 \$891			-	600) \$	6				
Carp Catfish and bullheads	1, 68 7, 33 2, 81 7, 39	8 212 3 775	4, 659	\$67		630 3, 273	3 27	8			5, 17 1, 31	5 \$734 0 145
Eels	2, 81	8 393	3		- 4	14, 387	7 5, 15	8				
FloundersSqueteagues or "sea trout," gray	7, 39		5		- 2	27, 660 300						
Striped bass	1.45		/			4, 330						
White perch Yellow perch	6, 23	4 799			- 3	32, 032	2 5, 82	1				
Yellow perchCrabs: King				20	5	13, 048	1,27	9				
Soft									800	4, 85	0	
Turtles, snapper						2, 550	13	3				
Total	826, 87	5, 208	5, 764	775	2 12	28, 807	7 15, 60	5 23,	800	4, 85	6, 48	5 879
	-	Pot	S	7.1						Dre	edges	
Species	Ee	al	Lobs	ter		Spear	rs	(Clam		Oys	ter
	Pounds		Pounds	Value	Por	unds	Value \$90	Poun	ds V	alue	Pounds	Value
Catfish and bullheads]	1,000	114					
EelsLobsters	38, 499	\$4, 354	11, 750	\$2 620		998	138					
Clams:				φω, σωσ								
Hard, publicHard, private								6, 9	903 \$2 903 2	2, 020 2, 001		
Oysters: Market private spring	1							28. 1	20 3	, 967		
Market, private, spring Market, private, fall								29, 7	712 4	, 171	201, 926	\$27, 618
Trained, private, range												30 EO
Seed, public, spring								38, 2	250 2	, 550	549, 000	55, 000

Fisheries of Delaware, 1930-Continued

CATCH: BY GEAR-Continued

Species	To	ngs	Ra	ikes	Ga	affs	Byh	hand
Crabs, king	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 206, 260	
Clams, hard, public	9, 600 19, 500			\$750				
Oysters: Market, public, fall Market, private, fall	166, 467 1, 875							
Seed, public, spring Seed, public, fall	176, 850 75, 374	11, 220						
Turtles, snapper					100	\$5		
Total	449, 666	37, 771	2,000	750	100	5	206, 260	27

OPERATING UNITS: BY COUNTIES

Item	Kent	New Castle	Sussex
Fishermen: On vessels.	Number 90	Number	Number 57
On boats and shore— Regular Casual	118 49	1 71	7 25
Total	257	72	90
Vessels: Steam— 41 to 50 tons 81 to 90 tons 101 to 110 tons 111 to 120 tons 121 to 130 tons 161 to 170 tons 171 to 180 tons 181 to 190 tons			
Total Net tonnage			1, 90
Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 61 to 70 tons 101 to 110 tons	2 2 2 2		
Total	6 93		196
Sail— 5 to 10 tons 11 to 20 tons	3 7		
Total	10 133		
Total vessels. Total net tonnage.	16 226		2, 100
Boats: Motor Other Accessory boats Apparatus:	17 80 21	16 26 4	35 86 61
Purse seines, menhaden Length, yards Haul seines Length, yards Gill nets—	24 8, 010	15 1, 530	6, 528 48 14, 430
Drift Square yards Runaround Square yards	35, 000 4 14, 000	133, 889	42, 490 41 26, 000
Stake Square yards	46 9, 490	2,800	156 11, 134

Fisheries of Delaware, 1930—Continued OPERATING UNITS: BY COUNTIES—Continued

Item		New Castle	Sussex
pparatus—Continued.			
Lines—	Number	Number	Number
Hand	20	1 wantoci	3:
Hooks	40		6
Trawl	6		0
Hooks	3, 100		3,000
Trot, with baits or snoods.	3, 100		5,000
Baits or snoods		50	
Pounds nets.	23	15	29
Stop nets.	20	15	- 23
Square yards	3, 200	168	
Fyke nets	3, 200	58	21
Dip nets	40	58	
Cast nets	3		36
Pots—	3	4	
Eel	107		0.4
Lobster	127		64
			18
Spears			
Dredges—			
Clam	10		
	10		
Oyster	30		
Yards at mouth	37		
Tongs	69		1
Rakes	6		
Gaffs		1	
By hand	10		

CATCH: BY COUNTIES

Species	Ken	nt	New	Castle	Suss	sex
Species	Pounds	Value	Pounds	Value	Pounds	Value
Alewives.	1,700	\$34			3, 192, 266	\$9, 708
Bluefish	-,				31, 010	2, 314
Carp	3, 859	596	45, 809	\$6,375	36, 168	2, 074
Catfish and bullheads	3, 319	410	17, 664	1,722	17, 934	1,629
Cod	24, 144	590		-,,	73, 000	3, 010
Croaker	190, 250	5, 798	750	84	933, 930	22, 823
Eels	10, 367	1,064	12, 506		70, 716	8, 432
Flounders		2,001	12,000	1,000	132, 553	9, 503
Gizzard shad			950	7	102,000	0, 000
King whiting or "kingfish"		70			1,680	49
Menhaden	1, 100	10			41, 960, 142	307, 112
Mullet	1,000	50			63, 800	4, 250
Scup		50			27, 000	2, 160
Sea bass					20, 250	1, 620
Shad	7, 201	1, 282	36, 479	7, 774	10, 766	1, 818
Spot		1, 202	30, 413	1,111	146, 761	8, 250
Squeteague or "sea trout," gray	363, 025	18, 198	750	84	870, 950	22, 186
Squeteague or sea trout, gray			520	94	64, 307	13, 605
Striped bass	37, 200	8,750			04, 507	15,000
Sturgeon		9	15, 313	6, 253		
Suckers		9			74 000	2, 300
Tautog		0.050	0.005	004	74,000	27, 968
White perch		6, 853		294	155, 321	4, 319
Yellow perch	100	9	3, 915		43, 745	4, 513
Yellowtail					2, 940	85
Crabs:						
King		1, 265				1 050
Soft					23, 800	4, 850
Lobsters					11, 750	2, 620
Clams:	LOT LOT					
Hard, public	18, 503	3, 790				
Hard, private	6, 003	2,001				
Mussels	19, 500	1,875				
Oysters:	100000					40.084
Market, public, fall	86, 675	8,068			79, 792	10, 874
Market, private, spring	28, 120	3, 967				
Market, private, fall	210, 263	29,002			23, 250	3, 000
Seed, public, spring	753, 300	52,650			10, 800	720
Seed, public, fall	64, 800	3, 795			10, 574	706
Turtles, snapper	2, 550	133	100	5		
Total	2, 854, 014	150, 259	137, 581	24, 553	48, 089, 205	477, 983

Industries related to the fisheries of Delaware, 1930

TRANSPORTING IN KENT COUNTY

Persons engaged on vessels	5
Vessels, motor	į
Net tonnage	3

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Kent County	New Castle County	Sussex County	Total
Establishments	4	5	9	18
Persons engaged: Proprietors. Salaried employees.	8 4	5 3	10 15	23 22
Wage earners— A verage for season A verage for year	34 18	16 9	283 103	333 130
Paid to salaried employees	\$7,782 15,047	\$6, 500 10, 682	\$28, 840 61, 365	\$43, 090 87, 094
Total, salaries and wages	22, 799	17, 182	90, 205	130, 186

PRODUCTS MANUFACTURED

Item	Quantity	Value
Oysters, fresh-shucked gallons	78, 080 (7)	\$153, 584 603, 675
Total		757, 259

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 39]

King crabs, dry scrap.	tons	178	\$7, 104

¹ Includes shucked hard clams; marine and domestic shell products; canned sturgeon caviar; oyster-shell products; and menhaden products.

1 Data not available.

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 5 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 39 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VESSEL FISHERIES AT NEW YORK CITY AND GROTON, CONN.

During 1931 fishing vessels of 5 net tons capacity or greater landed 51,854,000 pounds of fishery products at New York City and Groton, Conn. This is 9 per cent less than during the previous year. The landings consisted of bluefish, 1,788,000 pounds; cod, 5,368,000 pounds; flounders, 8,438,000 pounds; haddock, 28,502,000 pounds; halibut, 47,000 pounds; mackerel, 1,685,000 pounds; scup or porgies and sea bass, 696,000 pounds; tilefish, 2,782,000 pounds; squeteague or weakfish, 37,000 pounds; and miscellaneous species, 2,511,000 pounds.

^{&#}x27;Statistics on the landings at New York City are collected by J. H. Matthews, executive secretary, Middle Atlantic Fisheries Association and forwarded to this bureau where they are combined with Groton landings. The statistics for the two ports are combined to avoid disclosure of individual enterprise.

SHAD FISHERY OF THE HUDSON RIVER

The shad fishery of the Hudson River in 1931 was prosecuted by 252 fishermen, who used 25 motor boats, 107 other boats, 104 drift gill nets, having a total area of 315,298 square yards, 19 stake gill nets having a total area of 19,167 square yards, and 2 haul seines having a combined length of 349 yards. The total catch was 125,943 shad, having a weight of 414,611 pounds and a value to the fishermen of \$49,781. This is an increase of slightly over 100 per cent in number and 49 per cent in value as compared with 1930. The average price per pound received by the fishermen in 1931 was about 12 cents as compared with 16 cents received in 1930.

About 73 per cent of the catch in number was taken with drift gill nets, 25 per cent with stake gill nets, and 1 per cent with haul seines. The remainder was taken incidentally with gear used mainly

for other species of fish.

With the exception of some fishing with stake gill nets from one town in New Jersey, the fishing was prosecuted entirely from points in New York.

Shad fishery of the Hudson River, 1931

	1	New Yor	k	N	New Jerse	y	Total			
Item	Num- ber	Pounds	Value	Num- ber	Pounds	Value	Num- ber	Pounds	Value	
Fishermen: On boats and shore— Regular Casual	5 224			2 21			7 245			
Total	229			23			252			
Boats: Motor Other A pparatus:	22 101			3 6			25 107			
Gill nets— Drift Square yards Stake	104 315, 298 15			4			104 315, 298 19			
Square yards Haul seines Length, yards	12, 167 2 349			7,000			19, 167 2 349			
Shad caught: With drift gill nets With stake gill nets With haul seines Incidentally	92, 353 9, 975 1, 270 445	303, 563 33, 795 3, 815 1, 438	\$36, 546 3, 587 437 270	21, 900	72,000	\$8, 941	92, 353 31, 875 1, 270 445	303, 563 105, 795 3, 815 1, 438	\$36, 546 12, 528 437 270	
Total	104, 043	342, 611	40, 840	21, 900	72,000	8, 941	125, 943	414, 611	49, 781	

FISHERIES OF THE CHESAPEAKE BAY STATES 8

The yield of fishery products in the Chesapeake Bay States (Maryland and Virginia) during 1930 amounted to 316,392,924 pounds, valued at \$11,472,050. This is an increase of 15 per cent in the catch but a decrease of 1 per cent in the value of the catch as compared with the quantity and its value for 1929. Of the total catch in 1930, 199,326,534 pounds, valued at \$4,391,493, were fish; and 117,066,390

⁸ With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

pounds, valued at \$7,080,557, were shellfish and miscellaneous products. These fisheries gave employment to 19,391 fishermen, or 5 per cent more than in 1929. Of the total number of fishermen employed during 1930, 2,579 regular fishermen were engaged on vessels, and 10,635 regular and 6,177 casual fishermen were employed in the shore and boat fisheries.

Fisheries of the Chesapeake Bay States, 1930 SUMMARY OF CATCH

Product	Mary	land	Virgi	nia	Total		
Product	Pounds	Value	Pounds	Value	Pounds	Value	
Fish Shellfish, etc	16, 680, 888 54, 417, 656	\$873, 469 3, 111, 279	182, 645, 646 62, 648, 734	\$3, 518, 024 3, 969, 278	199, 326, 534 117, 066, 390	\$4, 391, 493 7, 080, 557	
Total	71, 098, 544	3, 984, 748	245, 294, 380	7, 487, 302	316, 392, 924	11, 472, 050	

OPERATING UNITS: BY STATES

Item	Maryland	Virginia	Total
Fishermen: On vessels On boats and shore—	Number 1, 127	Number 1,452	Number 2, 579
On boats and shore— Regular Casual	4, 917 2, 483	5, 718 3, 694	10, 635 6, 177
Total	8, 527	10, 864	19, 391
Vessels: Steam. Net tonnage. Motor Net tonnage. Sall Net tonnage. Sull Net tonnage.	2 13 252 2,796	25 2, 902 85 1, 440 27 219	25 2, 902 87 1, 453 279 3, 015
Total vessels. Total net tonnage	254 2, 809	137 4, 561	391 7, 370
Boats: Motor Other Accessory boats Apparatus:	3, 687 2, 435 20	4, 530 3, 168 62	8, 217 5, 603 82
Purse seines— Menhaden Length, yards Other Length, yards Haul seines. Length, yards	18 5, 012 188 34, 784	31 8,720 187 59,430	31 8, 720 18 5, 012 375 94, 214
Gill nets— Anchor Square yards Drift Square yards Runaround Square yards	2, 845 303 447, 800 5, 920	9,600 652 663,042	12, 445 955 1, 110, 842 5, 920
Stake. Square yards. Lines—	2, 564 151, 660	16, 453 607, 190	19, 017 758, 850
Hand. Hooks. Trot, with baits or snoods. Baits or snoods. Trot, with hooks. Hooks.	18 36 1,510 977,035 22 3,450	1, 386 662, 440	18 36 2, 896 1, 639, 475 22 3, 450
Pound nets Stop nets Square yards Fyke nets Dip nets	692 6 10, 350 2, 388 1, 393	2, 262 1, 084 712	3, 450 2, 954 6 10, 350 3, 472 2, 105

Fisheries of the Chesapeake Bay States, 1930—Continued OPERATING UNITS: By STATES—Continued

Item	Maryland	Virginia	Total
pparatus—Continued. Cast nets	Number	Number	Number
Otter trawls Yards at mouth		12 358	12 358
Pots, eel Spears		640	13, 292
Scrapes Yards at mouth	1, 232 1, 232	618 618	1, 850 1, 850
Dredges— Crab		102	103
Yards at mouth Oyster Yards at mouth		182 256 293	182 966 1, 191
Scallop Yards at mouth		924 617	924
TongsRakes	134	4, 820 948	9, 669 1, 082
Picks	8	477	488

CATCH: BY STATES

	Maryl	and	Virgi	nia	Total		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
FISH							
Alewives	5, 741, 307	\$86, 121	15, 387, 018	\$181, 533	21, 128, 325	\$267,654	
Black bass	19, 179	3, 263			19, 179	3, 263	
Bluefish	267, 611	26, 031	230, 006	16, 182	497, 617	42, 213	
Bonito	5, 200	416	43, 615	2, 181	48, 815	2, 597	
Butterfish	615, 480	37, 118	3, 675, 005	163, 675	4, 290, 485	200, 793	
Cabio, or crab eater	200	10			200	10	
Carp	226, 240	22,038	242, 750	11, 757	468, 990	33, 795	
Catfish and bullheads	398, 983	19, 500	407, 787	15, 471	806, 770	34, 971	
Cod			50, 103	1, 200	50, 103	1, 200	
Croaker	2, 113, 780	62, 271	19, 908, 201	462, 763	22, 021, 981	525, 034	
Drum:	40.000	500	04.050	517	64 270	1 015	
Black	40, 000	500	24, 370 36, 200	517	64, 370 52, 200	1, 017 1, 764	
Red or redfish	16, 000	327		1, 437 6, 626	389, 126	33, 741	
Eels	314, 361	27, 115	74, 765	26, 014	661, 939	31, 025	
Flounders	102, 375	5, 011 764	559, 564	3, 234	167, 749	3, 998	
Gizzard shad	31, 999	621	135, 750	3, 234	12, 665	621	
Goldfish or "sand perch"	12, 665	021	1, 422	42	1, 422	42	
Hake			400	20	400	20	
Harvestfish	6, 550	229	83, 900	2, 828	90, 450	3, 057	
Hickory shad King whiting or "kingfish"	1, 600	128	2, 989	144	4, 589	272	
	800	48	47, 874	4, 747	48, 674	4, 795	
Mackerel Menhaden	800	40	115, 841, 600	767, 210	115, 841, 600	767, 210	
Mullet	22, 150	1, 181	93, 000	3, 910	115, 150	5, 091	
Pigfish	400	20	68, 700	3, 444	69, 100	3, 464	
Pike or pickerel	10, 918	2, 019	80	20	10, 998	2, 039	
Pompano	100	25	2,000	400	2, 100	425	
Scup	60, 000	2, 400	403, 514	20, 461	463, 514	22, 861	
Sea bass	20, 200	1, 212	191, 573	14, 479	211, 773	15, 691	
Sea robin	600	6			600	€	
Shad	998, 436	149,742	6, 183, 009	989, 125	7, 181, 445	1, 138, 867	
Skates	800	8	1,800	27	2,600	35	
Spanish mackerel	8, 200	1,010	50, 150	6, 480	58, 350	7, 490	
Spot	126, 295	6, 569	2, 492, 935	124, 874	2, 619, 230	131, 443	
Squeteagues or "sea trout":							
Gray	3, 753, 647	172, 258	15, 512, 389	580, 708	19, 266, 036	752, 966	
Spotted	3, 580	423	198, 000	23, 769	201, 580	24, 192	
Striped bass	1, 227, 990	203, 569	425, 175	67, 076	1, 653, 165	270, 645	
Sturgeon			4, 590	1, 380	4, 590	1, 380	
Tautog	200	10	800	32	1,000	42	
Tomcod	280	8		0.701	280	41 400	
White perch	420, 246	31, 738	196, 245	9, 761	616, 491	41, 499 1, 097	
Whiting	5, 000	200	21, 707	897	26, 707	13, 160	
Yellow perch	107, 516	9, 560	46, 660	3, 600	154, 176	15, 100	
Total	16, 680, 888	873, 469	182, 645, 646	3, 518, 024	199, 326, 534	4, 391, 493	

Fisheries of the Chesapeake Bay States, 1930-Continued

CATCH: BY STATES-Continued

Carried States	Mary	land	Virg	inia	Total		
Species	Pounds	Value	Pounds	Pounds Value		Value	
SHELLFISH, ETC.	21 605 767	êroo oor	00 000 070	\$540 DEC	en ses eer	21 079 061	
HardSoft		\$529, 005 455, 166	28, 939, 870 2, 881, 000	\$543, 056 195, 005	60, 565, 637 8, 194, 016	650, 171	
Squid	100, 000	4,000	125, 383	3, 849	225, 383	7, 849	
Clams, hard, public	80, 8.0	40, 400	1, 212, 736	391, 771	1, 293, 536	432, 171	
Oysters: 1		**** ***		105 100		200 E00	
Market, public, spring		544, 278	1, 581, 175	185, 490	6, 155, 848	729, 768	
Market, public, fall Market, private, spring		1, 272, 071 65, 015	4, 843, 530 2, 980, 752	567, 473 346, 317	15, 491, 841 3, 469, 877	1, 839, 544	
Market, private, fall		188, 608	10, 212, 420		11, 606, 280	1, 371, 273	
Seed, public, spring			2, 509, 715	125, 483	2, 698, 119	136, 555	
Seed, public, fall				280, 605	5, 537, 205	280, 605	
Scallops, bay	*********		1, 824, 948	147, 564	1, 824, 948	147, 564	
Turtles, snapper	1,600	64			1,600	64	
Terrapin, diamond-back	2, 100	1,600			2, 100	1, 600	
Total	54, 417, 656	3, 111, 279	62, 648, 734	3, 969, 278	117, 066, 390	7, 080, 557	
Grand total	71, 098, 544	3, 984, 748	245, 294, 380	7, 487, 302	316, 392, 924	11, 472, 050	

PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

	Mary	land	Virg	inia	Total		
Product	Quantity	Value	Quantity	Value	Quantity	Value	
Crabs: number. Hard	15, 939, 048	\$529, 005 455, 166 40, 400	86, 819, 610 8, 643, 000 151, 592	\$543, 056 195, 005 391, 771	181, 696, 911 24, 582, 048 161, 692	\$1, 072, 06 650, 17 432, 17	
Market, public, springdo Market, public, falldo Market, private, springdo Market, private, falldo Seed, public, springdo Seed, public, falldo	1, 436, 437 65, 982 188, 029 37, 681	544, 278 1, 272, 071 65, 015 188, 608 11, 072	230, 492 706, 054 434, 512 1, 488, 691 501, 943 1, 107, 441	185, 490 567, 473 346, 317 1, 182, 665 125, 483 280, 605	847, 607 2, 142, 491 500, 494 1, 676, 720 539, 624 1, 107, 441	729, 76 1, 839, 54 411, 33 1, 371, 27 136, 55 280, 60	

¹ Statistics on oyster used in this table are based on yields of 7.413 pounds of meats to the bushel for market oysters in Maryland, 6.86 pounds for market oysters in Virginia, and 5 pounds for seed oysters in both States. In reports for previous years all oysters in both States have been computed on the basis of a uniform yield of 7 pounds to the bushel.

Industries related to the fisheries of the Chesapeake Bay States, 1930

Item	Maryland	Virginia	Total
ransporting: Persons engaged Vessels—	Number 354	Number 501	Number 855
Motor Net tonnage Sail. Net tonnage	2, 227 23 707	253 3, 046 1 30	404 5, 273 24 737
. Total vessels	174 2, 934	254 3, 076	428 6, 010
Wholesale and manufacturing: Establishments. Persons engaged—	323	220	543
Proprietors	509 216	303 78	812 294
Average for season	2,891	4, 448 1, 817	10, 569 4, 708
Salaries and wages paid	\$1,756,224 \$5,155,591	\$1, 220, 122 \$5, 228, 100	\$2, 976, 346 \$10, 383, 691
Fishermen's manufactured products: Persons engaged Products	\$8, 140	\$100, 000	\$108, 140

¹ These production figures are not comparable with those shown in previous bulletins, since packaged resh and frozen fishery products are now included.

MARYLAND

Fisheries of Maryland, 1930 OPERATING UNITS: BY GEAR

				Gill	nets			Lines			
Item	Purse seines	Haul seines	Anchor	Drift	Runaround	Stake	Hand	Trot, with baits or snood	Trot, with hooks	Pound nets	Stop nets
Fishermen: On vessels	Num- ber 74	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber
On boats and shore— Regular————————————————————————————————————	46	294 285	18 2	$\frac{74}{374}$	$^{14}_{2}$	74 83	18	1, 317 160	10 3	510 176	1 10
Total	120	579	20	448	16	157	18	1, 477	13	686	11
Vessels: Motor—5 to 10 tons Net tonnage	1 7										
Sail— 5 to 10 tons	1 2 6 1										
Total Net tonnage	10 222					s					
Total vessels Total net tonnage	11 229										
Boats: Motor Other Accessory boats	20 1 20	186	9	166 95				1, 233 208	13	236 263	3 4
Apparatus: Number Length, yards	18		11	303		2, 564 151, 660		1, 510	22	692	10, 350
Square yards Hooks, baits, or snoods			2, 645				36	977, 035	3, 450		

Note.—Of the total number of persons engaged in the preparation of fishermen's manufactured products, 628 have been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Fisheries of Maryland, 1930—Continued

OPERATING UNITS: BY GEAR-Continued

Item	Fyke nets	Dip nets	Cast nets	Pots, eel	Spears	Scrapes	Dredges, oyster	Tongs	Rakes	Picks	By hand	Total, exclusive of duplication
Fishermen: On vessels	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber 1,085	ber	ber	Num- ber	Num- ber	Num- ber 1, 127
On boats and shore— Regular————————————————————————————————————	35 107		3	123 42		640 22		3, 345 1, 114				4, 917 2, 483
Total	142	1, 399	3	165	18	662	1, 286	4, 462	134	8	51	8, 527
Vessels: Motor—5 to 10 tons Net tonnage								1 6				2 13
Sail— 5 to 10 tons							194 23 18 6 4 2					194 24 21 7 4 2
Total Net tonnage							247 2, 676					252 2, 796
Total vesseis Total net ton- age							247 2, 676					254 2, 809
Boats: Motor Other Accessory boats	68		3	138	12 6	584	20 88		48 37	8		3, 687 2, 435 20
Apparatus: Number Yards at mouth	2, 388	1, 393	3	12, 652	18	1, 232 1, 232	710 898	4, 849	134	8		

CATCH: BY GEAR

						Gill	nets	
Species	Purse	seines	Hauls	eines	And	t		
Alewives			Pounds 101, 200			Value	46,809	\$724
Black bass	88, 136	\$8,818	11,475 31,300					
CarpCatfish and bullheads			149,593 114,825	14, 210 5, 554				
Croaker Eels	73, 218	1,957	620, 200 1, 960	20,982			8,400	253
Flounders Gizzard shad			9,700 2,100	507				
Goldfish or "sand perch" Hickory shad			9,665	491				
Mullet. Pike or pickerel.			1,300 2,685	74	18,000	\$916		
Shad			2,837 44,000	397			225, 625	
Squeteagues or "sea trout":	-,			-,				*******
GraySpotted			87,650 2,400	288				
Striped bass			219,903 107,085	40, 315 8, 149				28, 533
Yellow perch			15, 835 48, 314	1,431 5,566			400	4(
Total	645, 407	70, 536	1,584,027	113, 457	21, 200	1,356	463, 446	64, 076

Fisheries of Maryland, 1930—Continued

CATCH: BY GEAR-Continued

	0.	II note	Cont'-	4		1	т.			
	Gi	nets—	Continue	ed		Cort.	Lir	nes		
Species	Runar	round	Sta	ke		Har	ıd	Т	rot, with	h baits ods
	Pounds	Value	Pounds	Value		ounds	Value	F	Pounds	Value
Alewives Bluefish Bonito	49,800	\$4,784	18,600	\$335		40,000	\$4,000 160			
Catfish and bullheads Croaker			200 400	10 12		5, 800 6, 400	174 320			
lizzard shad			684 300	27 24						
cup or porgy ea bass had			135, 211	20,398		22, 400 20, 000	896 1, 200			
panish mackerel. queteagues or "sea trout," gray triped bass.	200	50	1,500	120		32,000	1,600			
Vhite perch	2,500	450	122,000 10,800 1,200	18, 839 820 120)					
Yellow perch								-	, 315, 632	
Total	52, 500	5, 284	290, 895	40, 705	1	28,600	8,350	30	, 315, 632	505, 730
Species	Lines-	Contd.	Pour	d nets		Sto	p nets		Fyke	e nets
	Pounds	Value	Pounds	Valu		Pound	ls Valu	-	Pounds	Value
AlewivesBlack bass			5, 574, 29	98 \$83, 8	530 46				400 7,454	\$
Bluefish			58, 3	75 5, 8	599					
Bonito Butterfish Cabio or crab eater			3, 20 615, 48	80 37, 1	256 118 10					
CarpCatfish and bullheadsCroaker	8,300	\$415	14, 85 137, 3 1, 405, 4	22 1, 1 72 6, 6 62 38, 8	100 625 869		\$3,6	36	6,025 138,286 300	6,89
Drum: Black			40, 00		500					
Red or redfish Eels Flounders	1,840	147	16, 0 19, 0 86, 2	14 1, . 75 4,	$\frac{327}{561}$ $\frac{184}{184}$				23, 087	
Gizzard shad			26, 9	15 00	633 16 193				2,300 2,600 400	11
King whiting or "kingfish" Mackerel			1,6	00	128 48					
MulletPigfish				00	88 20 117				1,000 7,639	
Pike or pickerel Pompano Scup or porgy			37,6	00 1,	25 504		-			
Sea bass Sea robin Shad				00 00 63 95,	$\frac{12}{6}$					
kates panish mackerel pot			8,0	00	8 960					
Gray			79,5 3,461,5 1,1							
Spotted			399.2	80 68 67,3	$\frac{135}{392}$ $\frac{10}{10}$				2,300	43
Vhite perch			198.7	80 40 15	8 063				90, 321	6, 62
Vhiting			5, 0 14, 5 100, 0	05 1,	$\frac{200}{319}$ $\frac{200}{000}$				75,576	
urtles, snapper	1,500								100	
Total	11,640	622	12,951,0	39 523,	112	31,80	3,6	536	357, 788	26, 24

Fisheries of Maryland, 1930-Continued

CATCH: BY GEAR-Continued

Species	Di	p nets	Cast	nets	Pots	s, eel	Spe	ears	Scrap	pes
Core			e Pounds			Value	Pound	Value	Pounds	Value
Carp. Eels Crabs: Hard. Soft.	89,6	350 \$1,58			251,860				1, 220, 485 3, 199, 944	\$21,690 270,364
Total		-	21 24,000		-	-	-	-	-	-
Species	Dredges,	oyster	Tor	ngs		Rakes		Picks	Byh	nand
Clams, hard public	Pounds		Pounds 72, 360						ue Pound. 660 1,320	
Market, public,	1, 127, 087	\$145, 247	3,447,586	399,	031					
Market public,	2,683,550	347, 213	7,964,761	924,	858					
Market, private, spring	29,652	4,800	452,060	59,	215 7,	413 1,	000			
Market, private,	51,150	7,780	1,320,470	177,	828 22,	240 3,	000		- Johns	
Seed, public, spring Terrapin, diamond- back			188, 404		17 74				2 10	0 1,600
Total				-			_		_	0 2,260

OPERATING UNITS: BY COUNTIES

İtem	Anne Arun- del	Balti- more	Cal- vert	Caro- line	Cecil	Charles	Dor- chester	Har- ford
Fishermen: On vessels. On boats and shore—	Number 7	Number 110	Number 20	Number	Number	Number	Number 397	Number
Regular Casual	384 370	46	129 286	3 45	9 102	98 278	730 192	52
Total	761	156	435	48	111	376	1,319	52
Vessels: Motor—5 to 10 tons Net tonnage							*******	
Sail— 5 to 10 tons. 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons 51 to 60 tons		. 3	1				88 4 3	*******
Total Net tonnage		-	4 88				95 786	******
Total vessels		18 545	4 88				95 786	
Boats: Motor. Other. Accessory boats.	139	17 20 8	183 148	6 21	44 41	141 62	508 258	31 11
Apparatus: Purse seines. Length, yards Haul seines	600	1,054	17			31		
Length, yards	1, 688	1, 400	3, 675	900	2,000	4, 655	1,850	1, 400

Fisheries of Maryland, 1930—Continued OPERATING UNITS: By counties—Continued

Item	Anne Arun- del	Balti- more	Cal- vert	Caro- line	Cecil	Charles	Dor- chester	Har- ford
pparatus—Continued. Gill nets— Anchor	Number	Number	$Number \ 2$	Number	Number	Number	Number	Number
Square yards			1, 200					
Drift			1	14	26	50	6	76
Square yards Runaround			600	9, 200	44, 120 1	181, 320	2,400	38,000
Square yards					600		1, 320	
Stake		120	8			470	20	12
Square yards		10, 150	240			30, 515	530	540
Trot, with baits or snoods	111	26	124			27	331	
Baits or snoods	64, 650	14, 700	57, 600			25, 200	253, 985	
Trot, with hooks			10	2				
Hooks			250	200			100	
Pound nets	32	10	38	14 4	28 2	54	160	2
Stop netsSquare yards				8, 100	2, 250			
Fyke sets	174	246		60	758	21	16	92
Dip nets	47		95			12	152	
Pots, eel	215	450			374	18	4, 124 72	600
Scrapes Yards at mouth				~~~~~			72	
Dredges, oyster		36	8				282	
Yards at mouth		58	12				358	
Tongs	646		311			185	519	
Item	Kent	Prince Georges	Queen Annes	St. Marys	Somer- set	Talbot	Wicom- ico	Wor- cester
Fishermen:	Number	Marmhan	Number	Marmhar	Number	Number	Number	Number
On vessels	35	Number	Numoer	18	416	124	1 wantoer	24 60000
On boats and shore—	00			10				
Regular	418	2	588	415	942	672	303	224
Casual	143	39	157	411	97	74	92	99
Total	596	41	745	844	1, 455	870	395	323
Vessels:								
Sail— 5 to 10 tons		1		2	77	25		
11 to 20 tons	1			1	14	1		
	3			1	5	1		
21 to 30 tons				1				
21 to 30 tons	1				2			
21 to 30 tons								
21 to 30 tons. 31 to 40 tons. 41 to 50 tons.				4	2 1 99	27		
21 to 30 tons	1				1	27 205		
21 to 30 tons	5			4	2 1 99			
21 to 30 tons	5 120	4	379	4 53	99 999	205	200	153
21 to 30 tons	1 5 120 262	4 21	379	4	2 1 99	459 129	200	15:
21 to 30 tons	5 120			4 53	99 999 565	205		
21 to 30 tons	5 120 262 116 10			4 53	99 999 565	459 129 2		
21 to 30 tons	5 120 262 116 10 5			4 53 330 442	99 999 565	459 129 2		66
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	262 116 10 5 1,316	21		4 53	99 999 565	459 129 2 7 2,042 3	37	6
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	5 120 262 116 10 5		110	4 53 330 442	99 999 565 814	459 129 2 7 2,042	37	6
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	262 116 10 5,316 20 1,316 22	21	110	330 442	2 1 99 999 565 814	459 129 2 7 2,042 3	37	7
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total. Net tonnage. Boats: Motor. Other. Accessory boats. Apparatus: Purse seines. Length, yards. Haul seines. Length, yards. Gill nets. Anchor.	262 116 10 5,316 20 1,316 22	21	110	330 442	2 1 99 999 565 814	459 129 2 7 2,042 3	37 	7
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	5 120 262 116 10 5 1,316 222 4,493	21 8 965	110	330 442	2 1 99 999 565 814	205 459 129 2 2,042 3 977	37 	7, 64
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	262 116 10 5,316 20 1,316 22	21	110	330 442	2 1 99 999 565 814 	205 459 129 2 7 2,042 3 977	37 	6
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	262 116 10 5 1,316 22 4,493	21 	110	330 442	2 1 99 999 565 814 	205 459 129 2 2,042 3 977	37 	7, 64
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total. Net tonnage. Boats: Motor. Other. Accessory boats. Apparatus: Purse seines. Length, yards. Haul seines. Length, yards. Gill nets. Anchor. Square yards. Drift. Square yards. Runaround. Square yards.	262 116 10 5 1, 316 22 4, 493	21 	110 12 4, 536	330 442 7 2, 190	2 1 99 999 565 814 5 3,500 6,000 2 4,000	205 459 129 2 2,042 3 977	1 480 29 21, 200	7, 64
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total	262 116 10 5 1,316 22 4,493 	21 	110 12 4,536	330 442 7 2, 190	2 1 99 999 565 814 	205 459 129 2 2,042 3 977	37 1 480 29 21, 200	7, 64
21 to 30 tons. 31 to 40 tons. 41 to 50 tons. Total. Net tonnage. Boats: Motor. Other. Accessory boats. Apparatus: Purse seines. Length, yards. Haul seines. Length, yards. Gill nets. Anchor. Square yards. Drift. Square yards. Runaround. Square yards.	262 116 10 5 1, 316 22 4, 493	21 	110 12 4, 536	330 442 7 2, 190	2 1 99 999 565 814 5 3,500 6,000 2 4,000	205 459 129 2 2,042 3 977	1 480 29 21, 200	7, 64

Fisheries of Maryland, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Kent	Prince Georges		St. Marys	Somer- set	Talbot	Wicom- ico	Wor- cester
pparatus—Continued. Lines—Continued. Trot, with baits or snoods	245	Number	146	133	63	251	Number 4	45
Baits or snoods Trot, with hooks Hooks	3,000		78, 600	94, 000		187, 800	2, 250	38, 65
Pound nets Fyke nets Dip nets	727 28	8 71	17 119 91	77 258	623	96 44 82	20 12	3
Cast nets Pots, eel Spears	336	30	1, 110		320	4, 835		24
Scrapes Yards at mouth					1, 160 1, 160 278			
Dredges, oyster Yards at mouth Tongs Rakes	366		659	12 12 938	351 203	54 73 545	331	3 14 13
Picks				*******				Ac

CATCH: BY COUNTIES

	Anne Ar	rundel	Balti	more	Calv	ert	Caro	line
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives Black bass Bluefish	406, 494 600 31, 425	\$5, 250 120 2, 968		\$1,560 40 1,929	450, 800 200	\$5, 641 20	10, 800 100	\$166 18
Butterfish Carp Catfish and bullheads Croaker Eels Els Glzzard shad	80 13, 022 20, 388 114, 234 11, 344 8, 081 17, 975	1, 293 918 3, 372 1, 244 358 386	19, 900 56, 436 3, 124	1, 990 2, 822 94 1, 190	200 6, 400 17, 300 111, 600	30 512 865 2, 486 5	2, 000 2, 000	1, 146 645 60 160
Mullet. Pike or pickerel. Spot. Squeteagues or "sea trout":	3, 354 25, 969 18, 795	671 3, 894 968		75	400 150 71,800 1,600	10, 526		172
Gray	149, 201 200	9, 467	25, 259	2, 020	51, 100	3, 452	3,400	272
Spotted	68, 340 11, 590 6, 700	13, 276 993	23,600	18, 720 1, 744 724	41, 450 25, 800 800	7, 559 2, 104 80	12, 500 14, 650 1, 500	2,500 938 150
HardSoftOysters:	2, 770, 000 42, 699	56, 620 5, 401		3, 960	671, 400 150, 927	10, 071 13, 584		
Market, public, spring Market, public, fall Market, private, spring Market, private, fall	1, 343, 517	173, 938		34, 022	206, 660 482, 638 103, 693 219, 625	71, 617 13, 988	*******	
Turtles, snapper					2, 617, 493	203, 537	1, 600 74, 300	6, 291

Fisheries of Maryland, 1930-Continued

CATCH: BY COUNTIES-Continued

	CATCE	I. BY CO	JUNTIES-	-Contin	ued			
Species	Ce	cil	Ch	arles	Dor	chester	Har	ford
Species	Pounds	Value	Pound	s Value	e Pound	s Valu	e Pounds	Value
AlewivesBlack bass		\$1,680 774	4, 6	75 8	09		60 223, 000	\$3,945
Bluefish	59, 530	0.700	44, 4	00 2 1	60 25, 4	00 2, 1 13 3	84	280
CarpCatfish and bullheads			67, 8	50 3, 18 35 3, 00	85 06 27, 0	34 1, 3	21 2,800 52 5,700	280 285
Croaker			6, 5	50 40	05 = 201.8	78 5, 2	38	#(5t)
Eels	_ 19, 937	1,994	2,4	10 16	65, 2	40 5, 9	95 10, 200	1,020
Flounders Gizzard shad Goldfish or "sand perch" Hickory shad	2, 100	63	7 50	00 1	32 25, 2 38 3, 5	94 1, 0		
Goldfish or "sand perch"	2,100	00	7, 50 9, 70	35 50	00	24 1	41	
Hickory shad	1,000	35						
Munet			1,70	00 15		00	32 200	
Pike or pickerel	1,659	313 12, 527			33 120.0	00 17 0	200	50 5, 882
ShadSpot		12, 021		00	12 12.5	00 7	31	0,004
Squeteagues or "sea trout", gray.			19, 10	00 1, 53	30 41, 3	00 2, 4	78	
Striped bass	26, 306	4, 734	56, 98	85 7, 51	11 116, 0	88 19, 4	84 11,800	2, 200
Squeteagues or "sea trout", gray. Striped bass. White perch. Yellow perch.	48, 621 10, 676	3, 699 908	41, 44 8, 66	15 3, 20	88, 5	00 6, 4	84 11,800 56 8,200 3,200	656 256
Crabs:	- 10,070	900	0, 00	30 77			0, 200	200
Hard			585, 20	00 8, 78	58 9,639,5	32 151, 5	02	
Soft			1, 20	00 13	50 446, 4	09 37, 2	54	
Oysters:	1200		16 16	20 9 1	19 607 1	90 00 7	5.5	
Market, public, spring Market, public, fall			16, 16 97, 88	50 2, 14 85 15, 47	43 827, 1 77 2 010, 5	20 99, 7 46 247, 1	55	
Market, private, spring			97, 88 8, 33 74, 39	85 15, 47 54 1, 24 97 12, 04	77 2, 010, 5 40 84, 3 43 180, 1	46 247, 1 82 10, 3 36 23, 9	08	
Market, private, spring Market, private, fall			74, 39	97 12, 04	180, 1	36 23, 9	00	
Total	. 425, 705	36, 063	1, 096, 00	06 65, 61	14 14, 827, 1	03 646, 9	89 307, 116	14, 574
Species	Ker Pounds		Prince Pounds		Queen	Annes	St. M.	Value
Alewives	400, 509	\$6,008	800	\$16	67, 200	\$1,024	526, 600	\$8,433
Black bass	1,310	202	8,000	1,300				
BluefishButterfish	29, 486	2,803			16, 300	1,630 120		707
Corp	1,500 42,000	150 4, 616		1, 232	16, 300 1, 200 2, 500	238		48
Carp	58, 140	2, 907	18, 500		19,500	980	200	8
Croaker	85, 294	2, 559			102, 400	3,682	60, 800 800	
Eels	10, 410 1, 400	833 70	2, 950	274	21, 400 2, 000	1, 708 116	5, 200	
Flounders Goldfish or "sand perch" Hickory shad	1, 100	10	2,900	121	2,000	440	0, 200	
Hickory shad						****	2,850	86
Mullet			850	52	200	50		
Mullet Pike or pickerel Shad	3, 430 206, 183	522 30, 926			300 16, 000		97,666	15, 185
	12, 600	756		400	12, 400			
Squeteagues or "sea trout": Gray	275, 487	17, 220	3, 100	248	29, 100	2, 451	41,000	2, 124
Spotted							180	1.5
Striped bass	474, 183	73, 139	5, 400	850 620	60, 600	10, 674 1, 696	98, 300 19, 750	19,588 1,647
Striped bass	474, 183 65, 700 31, 080	4, 645 2, 586	7, 170		21, 340 16, 500	1, 496	3, 125	248
Hard	2, 684, 800 33, 941	40, 272 4, 073			1, 804, 200 56, 700	27, 263 6, 329	1, 432, 000 98, 510	26, 280 10, 820
Oysters:	00, 041	4, 070						
Market, public, spring	290, 775	23, 074			627, 696	63, 227	126, 132	13, 375
Market, public, spring Market, public, fall	850, 086	75, 322			1, 539, 495	154, 916	549, 437 9, 637	59, 503 1, 145
Market, private, spring					8, 896	960	41, 142	5, 000
Market, private, spring Market, private, fall Seed, public, spring	188, 404	11,072						
Total.	5, 746, 718			6, 906	4, 425, 727	281, 810	3, 125, 579	166, 491

Fisheries of Maryland, 1930-Continued

CATCH: BY COUNTIES-Continued

	Some	set	Talt	oot	Wicor	nico	Worce	ester
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	482, 000	\$6,830	1, 997, 896	\$29, 974	74, 200	\$1, 294	12, 000	\$240
Bluefish		4, 196	46, 400	4,604	400	40	48, 400	4,840
Bonito							5, 200	416
Butterfish Cabio or crab eater	10,000	600			2, 500	210	600, 000 200	
Carp			2,600	212	2,400	192	800	
Catfish and bullheads		310		936	16, 100	805		190
Croaker	611, 100	20, 344		6, 940	106, 200	3, 186		
Drum:	011,100	20,011	002, 000	0,010	200, 200	0, 200	200,000	24, 200
Black							40,000	500
Red or redfish	1,000	27					15,000	300
Eels	5, 800	580				16		1,862
Flounders	10, 100	462		132	3,800	190	39,800	1,990
Gizzard shad	900	36						
Hickory shad	1,500	60			1, 200	48	*********	
King whiting or "kingfish"							1,600	
Mackerel Mullet					800	40	800 18, 000	
Pigfish						40	400	20
Pompano							100	2
Scup or porgy							60,000	2,400
Sea bass							20, 200	1, 212
Sea robin							600	-,
Shad	110,800	16,619	163, 701	24, 555	18, 876	3, 189		1,500
Skates							800	8
Spanish mackerel	200	50					8,000	960
Spot	9,600	476	2, 700	177	8, 200	492	42,000	1,680
Squeteagues or "sea trout":								
Gray	110, 100	5,606	146, 200	10, 160	22, 100	1,432	2, 837, 200	113, 808
Spotted	3, 200	384						
Striped bass	17, 000	3,064	109, 443	17, 697	13, 740	2, 513		
Tautog							200 280	
Tomcod White perch	10,750	700	21, 700	1 774	10,000	700		
Whiting	10, 750	102	21, 700	1, 114	10,000	190	5,000	200
Yellow perch			10, 100	1 010			0,000	200
Crabs:			10, 100	1,010				
Hard	3, 013, 635	54,906	7, 871, 400	128, 941	71,600	1,432	950, 000	19,000
Soft				5, 998			18,680	1,682
Squid							100,000	4,000
Clams, hard, public							80, 800	40, 400
Oysters:								
Market, public, spring	537, 635	73, 416		88, 623	197, 164	26, 597		
Market, public, fall		172, 852		192, 747	552, 743	74, 564	105 000	
Market, private, spring	69, 193	9, 334	74 071	0.000	75, 983	8, 200	137, 883	20, 800
Market, private, fall	153, 197	20, 666		9,090	269, 463	29, 080	372, 133	55, 280
Terrapin, diamond-back	1,800	1,300	300	300				
Total	10, 867, 416	762, 795	13, 452, 209	533, 880	1, 447, 669	154, 308	5, 860, 196	322, 761

Industries related to the fisheries of Maryland, 1930 TRANSPORTING

Item	Anne Arun- del County	Balti- more County	Cal- vert County	Dor- chester County	St. Marys County	Som- erset County	Talbot County	Total
'ersons engaged on vessels	Number 49	Number 20	Number 19	Number 76	Number 9	Number 153	Number 28	Number 354
Tessels: Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons.	2		5 1 2 1	13 9 3 3	1	31 23 12 5	7 4 2	73 44 21 9 4
Total	23 260	3 75	9 126	31 554	1 9	71 1,045	13 158	2, 227
Sail— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons. 51 to 60 tons. 71 to 80 tons. 81 to 90 tons.	1	1 2 1		20 an 20 an an	1 2	1 3	1	3 6 5 2 3 2 1
Total	1 12	5 303		6 152	53 53	. 146	2 31	23 707
Total vessels	24 272	8 378	9 126	37 706	4 72	1, 191	15 189	174 2,934

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Anne Arundel County	Balti- more County	Cal- vert County	Caroline and Dor- chester Counties	Ceril and Harford Counties	Kent County	Queen Anner County
Establishments Persons engaged: Proprietors Salaried employees.	11 17 4	60 81 133	9	35 47 22	7 6 3	11 15 2	11
Wage earners— Average for season Average for year	293 180	714 363	137 79	1, 552 633	1 63 27	108	296 153
Paid to salaried employees	86, 293 79, 773	8210, 705 334, 519	\$1, 120 32, 810	836, 028 302, 476	\$760 10, 960	\$2, 340 26, 336	\$59, 255
Total, salaries and wages	86,006	545, 224	33, 900	338, 504	11,740	25, 676	50, 255
Item		Charles and St. Marys Counties	Somer- set County	Tulbet County	Wico- tnico County	Worees- fer County	Total
Establishments		7	137	19	6	7	223
Persons engaged: Proprietors. Salaried employees. Wage carners.			261 41	31 6	2	9	.109 216
Average for season		142 47	1,749 808	777 389	179 68	47 30	6, 171 2, 891
Paid to salaried employees			\$42,643 418,228	84, 265 126, 277	\$1, 490 19, 421	\$18,000	\$306, 214 1, 449, 990
Total, salaries and wages		22, 465	400, 971	130, 542	20, 901	15, 000	1, 736, 224

Industries related to the fisheries of Maryland, 1930—Continued PRODUCTS MANUFACTURED

Item	Quantity	Value
Alewives: Corned pounds.	116, 800	\$3,990
Corned pounds Pickled do do do do do de de de de de de de de de de de de de	404, 826	19, 716
Salted, tight-packdo	2, 157, 400	53, 245
Canned standard cases.	38, 493	117, 581
Roe, canneddo	14, 975	82, 581
Crab meat, packaged (fresh-cooked)pounds	3, 351, 023	939, 945
Oysters:	- Cale of D	
Fresh-shuckedgallons	1, 835, 283	2, 958, 141
Shell products—	10 000	010 000
Poultry feedtons	40, 625	310, 263
Limedo	20, 080	50, 944
Miscellaneous 1	(2)	619, 185
Total		5, 155, 591

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 52]

Alewives, salted pounds Eels, salted do do	40, 000 63, 400	\$1,800 6,340
Total	103, 400	8, 140

¹ Includes smoked alewives, butterfish, carp, cisco, eels, herring, lake trout, salmon, shad, and sturgeon; corned shad; canned terrapin meat and oysters; dry scrap and oil from alewife cuttings and waste; dry scrap from blue crab shells; and marine-shell products.

² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products 49 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

VIRGINIA

Fisheries of Virginia, 1930

OPERATING UNITS: BY GEAR

	Purse			Gill net	ts	Lines, trot,				
Item	seines, men- haden	Haul seines An-chor Drift Stake or snoods		Pound	Fyke	Dip nets	Otter			
Fishermen: On vesselsOn boats and shore—	Num- ber 1, 036	Num- ber	Num- ber		Number	Number	Number 6		Num- ber	Num- ber 46
Regular Casual		398 221	2	519 390	264 260	1, 335 71	1, 242 1, 101	82 81	467 245	
Total	1,036	619	2	909	524	1, 406	2, 349	163	712	46
Vessels: Steam— 61 to 70 tons	5						2222222			
91 to 100 tons 101 to 110 tons 111 to 120 tons 131 to 140 tons	3 2 2									
141 to 150 tons 151 to 160 tons 161 to 170 tons	1 2 2									

Fisheries of Virginia, 1930—Continued OPERATING UNITS: BY GEAR—Continued

Approx 1 1 1 1	Purse		steri'l	Gill ne	ts	Lines, trot,				18.07
Item	seines, men- haden	Haul seines	An- chor	Drift	Stake	with baits or snoods	Pound	Fyke	Dip	Otter
Vessels—Continued. Steam—Continued. 171 to 180 tons 191 to 200 tons	Num- ber 1	Num- ber	Num- ber		Number	Number	Numbe	Num- ber	Num	Num- ber
Total Net tonnage	25 2, 902									
Motor— 5 to 10 tons	1 3 1 1						1			2991
Total Net tonnage	609						1 7			12 173
Total vessels Total net tonnage	31 3, 511						1 7			12 173
Boats. Motor Other Accessory boats	62	159 162	1 1	235 424	172 302	1, 094 283	731 377	106 62	227 470	
Apparatus: Number Length, yards Square yards Yards at mouth Hooks, baits, or snoods	8, 720	187 59, 430	9,600	652 663, 042	16, 453 607, 190	1, 386	2, 262	1, 084	712	358
Item	Pots eel	, Scrap		Dred	ges Scallo		Rakes	Picks	By hand	Total, exclu- sive of dupli- cation
Fishermen: On vessels	Num	Numb	Nu ber ber 14	r ber	Numbe		Num- ber	Num- ber	Num- ber	Number 1, 452
On boats and shore— Regular————————————————————————————————————	8		6 1	8 164			948	477	450	5, 718 3, 694
Total	8	33	8 16	381	479	4,810	948	477	450	10, 864
Vessels: Steam— 61 to 70 tons 71 to 80 tons 81 to 90 tons 91 to 100 tons 101 to 110 tons 111 to 120 tons 131 to 140 tons 141 to 150 tons 151 to 160 tons 161 to 170 tons 171 to 180 tons										2 1 5 3 3 2 2 1 2 2 2 1 1
Total Net tonnage										25 2, 902

Fisheries of Virginia, 1930—Continued OPERATING UNITS: By GEAR—Continued

	3 9	- Y B	er Nig	Dredg	es			- 13		Total,
Item	Pots, eel	Scrapes		Oyster	Scallop	100	Rakes	Picks	By	sive of dupli- cation
Vessels—Continued. Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 41 to 50 tons 61 to 70 tons 71 to 80 tons 131 to 140 tons 181 to 190 tons										51 24 3 1 1 2 1
Total Net tonnage			45 389	17 233		4 29				1, 440
Sail— 5 to 10 tons				24 3						24
TotalNet tonnage				27 219		*****				27 219
Total vessels			45 389	44 452		4 29			*****	137 4, 561
Boats: Motor Other Accessory boats			6	56 28	348 193	2, 928 748	73 858	421	12 438	4, 530 3, 168 62
Apparatus: Number	640	618	102	256 293	924 617	4,820	948	477		31, 627

CATCH: BY GEAR

	Purse se	eines			Gill nets					
Species	menha		Hauls	eines	Ane	hor	Drift			
Alewives			Pounds 33, 400 19, 600 5, 300	Value \$668 1,896 265	Pounds		Pounds 18, 400 4, 000	Value \$359 360		
Carp. Catfish and bullheads Croaker			126, 300 139, 100 931, 000	5, 947 5, 191 23, 781			316, 400	8, 390		
Drum, red or redfishFloundersGizzard shad			10, 275 33, 150 61, 700	410 1,618 1,406	10,000		1, 200	36		
Hickory shad		\$762, 190	1, 200	48	*******		13, 100	3, 825		
Pigfish Pike or pickerel Pompano			44,000 80 2,000	2, 208 20 400			13, 000	650		
Shad Spanish mackerel Spot			14, 100 16, 300 1, 749, 000	2, 115 2, 445 87, 623			758, 498 6, 000 95, 800	115, 582 850 4, 523		
Squeteagues or "sea trout": Gray Spotted			641, 300 194, 800	40, 734 23, 385			30, 600	1, 801		
Striped bass			65, 860 53, 000 3, 600	9, 919 2, 841 148			45, 300	7, 195		
Yellow perch	114, 953, 600		5, 460 4, 150, 525	372 213, 440	18, 000	540	1, 399, 198	144, 295		

Fisheries of Virginia, 1930—Continued

CATCH: BY GEAR-Continued

Species	Gill ne	ts, stake	Lines, trot		Pound	Pound nets		
AlewivesBluefish			Pounds		Pounds 15, 220, 718 206, 166	Value \$178, 20 13, 89		
Bonito					43, 615	2, 18		
Butterfish					3, 668, 698 15, 850	163, 366		
Carp					32, 300	1, 58		
Cod	F 000	150			49,743	1, 193		
Croaker Drum:					17, 492, 421	390, 003		
Black				*******	24, 370	517		
Red or redfish Eels					24, 725 28, 800	2, 624		
Flounders Gizzard shad	8,500	425			28, 800	11, 74		
Gizzard shad	600				12, 150	356		
Harvestfish or "starfish" Hickory shad	1 000	20			400 67, 800	2, 196		
King whiting or "kingfish"					2,400	120		
Mackerel					47, 874	4, 747		
Mullet	2,000	80			888, 000 100	5, 020		
I Ignon	100	0			11,600	580		
Scup or porgy Sea bass					91, 997 20, 207	3, 680		
Shad	710, 967	111, 109			4, 639, 844	751, 259		
Skates					1,800	27		
Spanish mackerel	2,500				27, 850 589, 235	3, 185 28, 671		
Squeteagues or "sea trout":		121			,			
Gray	25, 500	1,742			14, 660, 362	528, 790 384		
Striped bass	63,000	10, 310			3, 200 192, 550	31, 001		
Sturgeon					2,000	600		
Tautog White perch					800 58, 100	32		
Whiting					17, 255	707		
Crabs, hard			20, 113, 470	\$373,069	105.045	0.048		
Squid					125, 345	3, 847		
Total	821, 167	124, 063	20, 113, 470	373, 069	58, 526, 725	2, 136, 738		

Species	Fyk	e nets	Dip	nets	Otter	rawls	Pots, eel		
Alewives	Pounds 112, 500	Value \$2, 263	Pounds	Value	Pounds	Value	Pounds	Value	
		24			40	0.4			
Bluefish	200					\$4			
Butterfish	500	25				25			
Carp	100,600	5, 030							
Catfish and bullheads	236, 387	8, 697							
Ood					360	7			
Croaker	182,600	5, 417			962, 780	34, 483			
Eels	5, 965	514				-,	40,000	\$3,48	
Flounders		485			249, 464	11, 745	10,000		
					210, 101	11, 110			
Gizzard shad	55, 300	1, 252			1 400	42			
Hake					,	42			
Hickory shad	800	40							
King whiting or "kingfish"						24			
Scup or porgy					311, 517	16, 781			
Sea bass						13, 089			
Shad	59,600	9,060				,			
	1, 400	74			55, 000	3, 820			
Spot	1,400				126, 427	5, 491			
Squeteagues or "sea trout," gray	28, 200	2, 150			120, 427	0, 491			
Striped bass	58, 465	8, 651							
sturgeon					2, 590	780			
White perch	84, 550	3,850			595	24			
Whiting	800	40			52	2			
Yellow perch	41, 200	3, 228							
Crabs:	11, 200	0, 220							
			308, 400	\$5,397					
Hard									
Soft	*****		897, 040	75, 967	38	2			
Squid					38				
Total	979, 067	50, 800	1, 205, 440	81, 364	1, 882, 747	86, 319	40,000	3,488	

Total....

Fisheries of Virginia, 1930—Continued CATCH: BY GEAR-Continued

Lagran Poli	er a nive		The state of		D	redges				
Species	S	Scrapes		ab		Oyster		Scallops		
Crabs: Hard	Pound 1, 024, 0 1, 983, 9	00 \$15,360	Pounds 7, 494, 000	Value \$149, 230	Poun	ds Va	lue P	ounds	Value	
Market, public, spring					81, 6 296, 5 940, 3 3, 287, 7	57 43, 14 111,	130 876 033	24, 948	\$147, 564	
Total	3, 007, 9	60 134, 398	7, 494, 000	149, 230	4, 606, 2	56 559,	939 1, 8	24, 948	147, 564	
Species		Тог	ngs	R	akes	Pic	eks	Ву	hand	
Clams, hard, public Oysters: Market, public, spring Market, public, fall Market, private, spring Market, private, fall_ Seed, public, spring Seed, public, fall	g	Pounds 1, 018, 424 1, 492, 681 4, 526, 393 1, 896, 680 6, 356, 188 2, 509, 715 5, 537, 205	Value \$321, 592 173, 090 522, 843 223, 588 747, 073 125, 483 280, 605	Pounds 132, 400 6, 860 20, 580 133, 468 537, 611	Value \$44, 075 500 1, 500 10, 103 40, 309	Pounds 18, 712		43, 200 10, 290	\$18,900	

830, 919

96, 487

18,712

7, 204

84, 360

21,900

23, 337, 286 2, 394, 274

0	PERAT	ring u	NITS:	By cou	NTIES				
Item	Acco- mac	Alex- andria	Caro- line	Charles City	Ches- ter- field	Din- widdie	Eliza- beth City	Essex	Fair- fax
Fishermen: On yessels	Number 41	Number	Num- ber	Number	Num- ber	Num- ber	Number 96	Num- ber	Num- ber
On boats and shore— Regular	1, 255 282	18	10	231	14	10	344	144	36
Total	1,578	18	10	231	14	10	440	144	36
Vessels: Motor— 5 to 10 tons————————————————————————————————————							15 9 1		
Total Net tonnage	1 6						25 279		
Sail, 5 to 10 tons Net tonnage	9 62								
Total vessels Total net tonnage	10 68						25 279		
Boats: Motor Other Apparatus:	768 782	10	5	2 165	5 4	2 7	114 26	45 61	26 14
Haul seines Length, yards Gill nets—	3, 280			2, 700	600 600			7 1, 960	5 840
Anchor Square yards Drift Square yards Stake	9, 600 4 7, 600 145	8 14, 400	5 6, 000	231 254, 100 40	7 4, 200	330	11 9, 900	7, 000	6 10, 800
Square yardsLines, trot, with baits or snoods	2, 400 2, 400 267 146, 800			1, 320		6,600	14 10, 500		

Fisheries of Virginia, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item		Acco- mac		lex- dria	Caro- line	Cha		Che ter field	widd		Essex	Fair- fax
Apparatus—Continued. Pound nets. Fyke nets		Numbe 326 5 290			Num- ber	Nun	21		ber	Number 368		Num- ber
Otter trawls Yards at mouth Pots, eel		640								150	5	
Scrapes		618	3									
Crab Yards at mouth Oyster Yards at mouth Scallop		122 130 697	3							13	6 8 6 6	
Yards at mouth Tongs		465 819 474 168								60	0 106	
Item	Glou		len- ico	Isle (Wigh		mes	Ki ar Qu	nd	King George	King Wil- liam	Lan- caster	Ma- thews
Fishermen: On vesselsOn boats and shore—	Numl	ber Nu	mber	Num	ber Nu	ımber	Nun	nber	Number	Number	Number 322	Number 18
Regular	19 33		200	40)2	101		57	29 59	83	295 522	308 378
TotalVessels:	53	30	200	40)2	101		57	88	83	1, 139	704
Steam— 61 to 70 tons 81 to 90 tons 91 to 100 tons 141 to 150 tons											2 1 1 1	
Total Net tonnage											5 463	
Motor— 5 to 10 tons———— 11 to 20 tons———— 61 to 70 tons———— 71 to 80 tons————											2 2 1 3	2 2 2
Total Net tonnage		1									8 329	36
Total vessels Total net tonnage		1									13 792	4 36
Boats: Motor Other Accessory boats Apparatus:	33 12		20 150	27	79	39 40		49	40 38	10 68	439 33 18	363 32
Purse seines, menhaden_ Length, yards Haul seines Length, yards			20	60	300	2 600			1, 300	2 400	2, 430 3 600	
Gill nets— Drift Square yards Stake Square yards	13, 20	1	,700 ,000	4, 80 8, 40 278, 6	00 2	19 9, 200 2, 620 8, 600	37,	42 800	237 54, 550	54 54, 000	1,800	11, 000
Lines, trot, with baits or snoods	44, 80	78 00 95 12		38, 5	77 00 20 36	54		4	$\begin{array}{c} 17 \\ 4,250 \\ 25 \\ 46 \end{array}$	8	34, 400 231 8	130 104, 000 463
Dip nets Dredges— Oyster Yards at mouth Tongs	4	50		33	36	15			29	20	8 11 510	147 8 11 194

Fisheries of Virginia, 1930-Continued OPERATING UNITS: BY COUNTIES-Continued

Item	Middle- sex	Nanse- mond	New Kent	Norfolk	North- amp- ton	Nor- thum- berland	Prince George	Prin- cess Anne
Fishermen: On vessels	Number 5	Number	Number	Number 26	Number 3	Number 767	Number	Number
On boats and shore—				20		101	*******	
Regular	200	50	68	95	589	505		66
Casual	543	121		111	30	418	37	*******
Total	748	171	68	232	622	1, 690	37	66
	to the same	-		-	-	-	-	-
Vessels: Steam—								
71 to 80 tons						1		
81 to 90 tons						4		
91 to 100 tons						2		
101 to 110 tons						- 3		
111 to 120 tons						2		
131 to 140 tons						2		
151 to 160 tons						2		
161 to 170 tons						2	******	*******
171 to 180 tons						1		
191 to 200 tons						1	******	******
						-		
Total						20		
Net tonnage			****	****	******	2, 439		A 4 4 A 4 A 4 A 4
Marian				-	-			FUEL
Motor— 5 to 10 tons	1							
11 to 20 tons	A.			3		****		
21 to 30 tons				1				
41 to 50 tons				1				
131 to 140 tons						*********		
181 to 190 tons						î	********	
101 10 100 1010 1010								
Total	1			. 5	1	2		
Net tonnage	8			114	11	317		*****
				-				
Sail, 5 to 10 tons						* 8		******
Net tonnage						. 58		
		-					-	
Total vessels	1			. 5	. 1	30		
Total net tonnage	8			114	- 11	2,814		
Boats:								
Motor	474	76	16	20	331	377	16	31
Other	6	28	39	169	513	400	13	12
Accessory boats				100		44.		
Apparatus:								
Purse seines, menhaden						22		
Length, yards						6, 290		
Harri saires	9		3	7	15		6	2
Haul seines							1,800	500
Length, yards	2,700		800	2,750	5, 020			
Length, yards Gill nets—			800	2, 750				
Length, yards Gill nets— Drift	2	1	800 60	2, 750	45		32	*******
Length, yards		300	800					*******
Length, yards	2	300 1, 180	800 60	90	45		32	
Length, yards Gill nets— Drift Square yards Stake Square yards	1, 200	300 1,180 57,200	800 60	90 7, 200	45 15, 960		32	
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods.	1, 200	300 1, 180 57, 200 21	800 60,000	90 7, 200 89	15, 960 106	264	32	
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods. Baits or snoods	1, 200 97 24, 250	300 1,180 57,200	800 60	90 7, 200 89 35, 600	15, 960 106 54, 600	83, 200	32	
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets	1, 200	300 1, 180 57, 200 21 4, 200	800 60,000	90 7, 200 89	15, 960 106 54, 600 131		32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets	1, 200 97 24, 250	300 1, 180 57, 200 21	800 60,000	90 7, 200 89 35, 600	15, 960 106 54, 600	83, 200 368	32	6
Length, yards Gill nets— Drift. Square yards. Stake. Square yards. Lines, trot, with baits or snoods. Baits or snoods. Pound nets Fyke nets Dip nets.	1, 200 97 24, 250	300 1, 180 57, 200 21 4, 200	800 60,000	90 7, 200 89 35, 600 13	15, 960 106 54, 600 131	83, 200	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets	1, 200 97 24, 250	300 1, 180 57, 200 21 4, 200	800 60,000	90 7, 200 89 35, 600	15, 960 106 54, 600 131	83, 200 368	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets Dip nets Otter trawls	1, 200 97 24, 250	300 1, 180 57, 200 21 4, 200	800 60,000	90 7, 200 89 35, 600 13	15, 960 106 54, 600 131 1	83, 200 368	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets Dip nets Otter trawls Yards at mouth Dredges— Crab	1, 200 97 24, 250	300 1, 180 57, 200 21 4, 200	800 60,000	90 7, 200 89 35, 600 13	15, 960 15, 960 106 54, 600 131 1	83, 200 368	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets Dip nets Otter trawls. Yards at mouth Dredges— Crab Yards at mouth	1, 200 97 24, 250 21	300 1, 180 57, 200 21 4, 200	800 60,000	7, 200 89 35, 600 13	15, 960 106 54, 600 131 1	83, 200 368 275	32 25, 600	6
Length, yards Gill nets— Drift. Square yards. Stake. Square yards. Lines, trot, with baits or snoods. Baits or snoods. Pound nets Fyke nets Dip nets. Otter trawls. Yards at mouth Dredges— Crab. Yards at mouth Oyster.	1, 200 97 24, 250 21	300 1, 180 57, 200 21 4, 200	800 60,000	7, 200 89 35, 600 13	15, 960 15, 960 106 54, 600 131 1	83, 200 368 275	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets Dip nets Otter trawls Yards at mouth Dredges— Crab. Yards at mouth Oyster Yards at mouth	1, 200 97 24, 250 21	300 1, 180 57, 200 21 4, 200	800 60,000	7, 200 89 35, 600 13	15, 960 106 54, 600 131 1	83, 200 368 275	32 25, 600	6
Length, yards Gill nets— Drift. Square yards. Stake. Square yards. Lines, trot, with baits or snoods. Baits or snoods. Pound nets. Fyke nets Dip nets. Otter trawls. Yards at mouth. Dredges— Crab. Yards at mouth. Oyster. Yards at mouth. Scallop.	1, 200 97 24, 250 21	300 1, 180 57, 200 21 4, 200	800 60,000	7, 200 89 35, 600 13	15, 960 15, 960 106 54, 600 131 1 2 3	83, 200 368 275	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets Dip nets Otter trawls Yards at mouth Dredges— Crab Yards at mouth Scallop Yards at mouth Scallop Yards at mouth	2 1, 200 97 24, 250 21 2 3	300 1, 180 57, 200 21 4, 200 21	800 60,000	7, 200 899 35, 600 13 1 30	15, 960 106 54, 600 131 1 2 3 227 152	83, 200 368 275 30 34	32 25, 600	
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Found nets Fyke nets Dip nets Otter trawls Yards at mouth Dredges— Crab Yards at mouth Oyster Yards at mouth Scallop Yards at mouth Tongs.	1, 200 97 24, 250 21	300 1, 180 57, 200 21 4, 200	800 60,000	7, 200 89 35, 600 13	15, 960 106 54, 600 131 1 2 3 227 152 229	83, 200 368 275	32 25, 600	6
Length, yards Gill nets— Drift Square yards Stake Square yards Lines, trot, with baits or snoods Baits or snoods Pound nets Fyke nets Dip nets Otter trawls Yards at mouth Dredges— Crab Yards at mouth Scallop Yards at mouth Scallop Yards at mouth	2 1, 200 97 24, 250 21 2 3	300 1, 180 57, 200 21 4, 200 21	800 60,000	7, 200 899 35, 600 13 1 30	15, 960 106 54, 600 131 1 2 3 227 152	83, 200 368 275 30 34	32 25, 600	

Fisheries of Virginia, 1930-Continued OPERATING UNITS: BY COUNTIES-Continued

Item	Prince William	Rich- mond	Spot- syl- vania	Staf- ford	Surry	War- wick	West- more- land	York
Fishermen: On vesselsOn boats and shore—	Number	Number	Number	Number	Number	Number	Number 51	Number 120
Regular Casual	42 38	108	13	36	39	302 4	154 70	450 18
Total	80	108	13	36	39	306	275	588
Vessels:							2	27 7 1
Total Net tonnage							2 15	35 317
Sail— 5 to 10 tons 11 to 20 tons							7 3	
Total Net tonnage							10 99	
Total vessels Total net tonnage							22 114	35 317
Boats: Motor Other Apparatus:	31 10	35 35	13	15 4	26 10	166 13	95 46	308 179
Haul seines Length, yards Gill nets—	$14 \\ 1,680$			4 600	9 2, 700		7 1, 200	47 22, 800
Drift	18 30, 062 1 1, 000	26, 720		9, 000 20 9, 320	8, 400 1, 384 44, 960	306 14, 400	4,800	25, 200
Lines, trot, with baits or snoods		1 400 30	1, 480	2 460 6		4, 000 56	25, 600 64	45, 400 36
Fyke netsOtter trawlsYards at mouth	207	6	40	44	18	17	19	11 6 178
Dredges— Crab Yards at mouth								68 123
Oyster Yards at mouth Tongs_ Rakes_							62 71 139	396 170

CATCH: BY COUNTIES

Species	Acco	mac	Alexa	ndria	Caroline		Charles City	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBluefish	898, 900 57, 000	\$13, 484 4, 231			1, 500	\$30	16, 800	\$336
Bonito_ Butterfish Carp	6, 800 1, 537, 975	340 61, 864					43, 000	2, 150
Catfish and bullheadsCod	20, 800	624	1,800	\$72	300	15		
Croaker	2, 159, 130	64, 794						
Black Red or redfish	20, 370 10, 800	407 431						
EelsFlounders	56, 900 40, 100	4, 840 1, 891			200	10		

Fisheries of Virginia, 1930-Continued

CATCH: By COUNTIES-Continued

Species	Acco	mac	Alexa	ander	Caroline		Charles City	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Clarend shed							24, 200	\$48
Gizzard shad	400	\$20						
Harvestfish or "starfish"					******			
Mackerel	3, 200	320						
Mullet	100	5						
Pigfish	1, 400	79						
Scup or porgy	27, 100	1, 084		******			*******	
Sea bass	11, 300	678						
Shad	304,600	45, 700	5, 940	\$990	1, 200	\$240	539, 700	80, 95
Skates	1,800							
Spanish mackerel	1,600	160						
Spot	45, 700	2, 363						
Squeteagues or "sea trout":								
Gray	5,543,661	169, 688						
Spotted	300	45			*******			
Striped bass	8, 650	1, 675						
Sturgeon	1,000	300			******			
Tautog	800	32			*******			400
White perch	5,000	338					6, 150	
Whiting	15, 500	620						
Yellow perch			2, 400	192	*******		******	****
Crabs:								
Hard	5, 881, 670	132, 896						*****
Soft	2, 511, 000	158, 565						
Squid	8, 800							
Clams, hard, public	368, 976	157, 044						
Ovsters:	2004							
Market, public, spring	144, 623	19.582						
Market, public, fall	386, 547							
Market, private, spring	892, 246							
Market, private, fall.	2, 676, 738	302, 760						
	1, 442, 988							
Scallops, bay	1, 412, 955	121, 900		*****				
Total	25, 094, 474	1, 421, 907	10, 140	1, 254	3, 700	320	693, 550	90, 210

Species	Cheste	erfield	Dinw	riddie	Elizabet	h City	Essex	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBluefish					17, 500	\$7,300 1,750		
BonitoButterfish					1, 000 565, 000	22, 600		
Carp	4,700	165					13, 500	
Catfish and bullheads						126	20, 100	1,003
Croaker					7, 798, 000	162, 040		-
Flounders Bizzard shad	2, 300	46			200	3, 793		
lickory shad								
sea bass					34, 000	3, 300		
hadpanish mackerel	11, 400	1,710	4, 400	\$660	730, 000 18, 250	109, 500 1, 825	1, 500	22
pot equeteagues or "sea trout," gray					151, 000	6, 160	7	7
striped bass	1,400	210	800	120	13, 000	24, 774 1, 560		
Sturgeon	1. 200	60			1,000 3,650	300 108	7, 200	57
Crabs, hard					2, 576, 000	48, 160		
Dysters:					,	35, 500		
Market, public, spring Market, public, fall						1, 545 2, 880		5, 380 16, 864
Market, private, spring					114, 130	13, 308	31, 597	4, 606
Market, private, fall Seed, public, spring						24, 751 3, 250	178, 277	25, 988
Seed, public, fall					130, 003	6, 500		
Total	27, 200	2, 347	5, 200	780	14, 372, 604	489, 690	441, 068	56, 293

Fisheries of Virginia, 1930—Continued

CATCH: BY COUNTIES-Continued

Species		Fairfax			Gloucester			Hen	rico	Isle of Wight	
Species	Pou	nds	Value	Po	unds	Value	P	ounds	Value	Pounds	Value
Alewives					46, 600			8, 000	\$160	70, 000	\$1,40
BluefishButterfish					1,800	18					
Carp					0, 500	44		10, 000	500	43, 500	9 17
Carp Catfish and bullheads Croaker	93,	687	\$3,74	4				8, 500	255	43, 000	2, 17 1, 29
Croaker				2, 9	93, 200	59, 87	6			164, 000	4, 92
Drum: Black				1	600	1.	8			1000	
BlackRed or redfish					200		0				
Eeis					0.000					1, 500	
FloundersGizzard shad					9,000	45	0	9,000	180	18, 500 25, 000	92 50
Hickory shad					5, 300	16-	4	3, 000	100	1,000	2
Hickory shad King whiting or "kingfish"					2, 400	120	0				
King writing or "kingush" Mullet. Shad Spot Squeteagues or "sea trout," gray Striped bass. White perch Yellow perch Crabs, hard. Clams, hard, public		000	69/		20 600	10.00		20 000		8, 500	34
Spot	0,	900	030	1	32, 600 75, 600	19, 89	0	38, 000	5, 700	349, 400	52, 41
Squeteagues or "sea trout," gray	y			1,6	66, 400	50, 04	0			45, 000	3, 15
Striped bass		100			400			8, 400	1, 260	44, 200	6, 63
White perch	12,	400	1 446	E .	2, 200 500	13:	2	2 000	100	33, 000	1, 03
Crabs, hard	10,	000	1, 440	1.4	20, 000	22, 400)	2,000	100	192, 500	3, 01
cidado, adia, padrio				, ,	40, 960	12, 800)				
Oysters:	100			1.	10 500	12 000				050 500	00.00
Market, public, spring Market, public, fall				23	16, 599 35, 806	26, 470				252, 530 757, 605	22, 08 55, 21
Market, private, spring					54, 880	6, 358	5			222, 950	19, 50
Market, private, spring Market, private, fall				16	64, 640	19, 065	5			668, 850	58, 50
Seed, public, spring Seed, public, fall				10	05, 002 15, 004	5, 250				722, 514 1, 806, 297	36, 12 90, 31
		_		-			-		-	1, 000, 201	30, 31
Total	127,	987	6, 558	7, 30	00, 391	251, 972	2 8	83, 900	8, 155	5, 469, 846	359, 66
Species		Ja	imes Ci	ty	King	and Qu	een	King	George	King V	Villiam
Species		Pou	inds V	alue	Pour	nds Val	ue	Pound	ls Valu	e Pounds	Value
Alewives		25	. 800	\$516	1, 2	200	\$36	22, 60	00 \$4	08 2,800	\$56
Carp		21	500	1,075							
Catfish and bullheads		18	,500	$\frac{555}{252}$		500 500	75	13, 20	00 5	28 2, 200 2, 000	110
Croaker Flounders		0,	, 400	202							48
Gizzard shad		14,	800	296							
Hickory shad		955	900 -3	8, 835	10, 8	300	$\frac{432}{691}$	12, 84	2, 1	3, 000 28, 650	120 4, 298
Shad	v	8.	,000	800		500	30	12,01	2, 1	500	25
Striped bass		25	500	3,825	2,		360	18, 26	3, 5		210
White perchYellow perch		9,	600	422	1, 2	200 300	$\frac{60}{64}$	8, 00 2, 60		80 1,800 08 500	90 40
Crabs, hard								102, 00	0 2,0		
										40 4 000	100
Market, public, spring								13 45	0 1 0	48 4, 802 62 15, 092	420 1, 760
Market private spring								10, 10		61, 740	7, 200
Market, private, fall										185, 220	21,600
Market, public, spring Market, public, fall Market, private, spring Market, private, fall Seed, public, spring Seed, public, fall		35, 65.	001	$1,750 \ 3,250$							
Total					36, 9			197, 40		88 311, 304	36, 038
Species	Lanc	Lancaste		М	latthe	WS		Middle		Nansem	
	Pounds	1	Value	Pour	nds	Value	Po	unds	Value	Pounds	Value
lewives	1, 496, 50		14, 971	1,626	, 000	\$16, 260		51, 500	\$1,030	1,600	\$32
Bluefish	9, 46 480, 00	00	757 33, 600	21	, 250 , 100	1, 700 - 105 -					
Butterfish	1, 80		90 -		, 100	100		12,000	480		
Catfish and bullheads	2, 50	00	125					2,000	80	400	20
atush and bunneads							•	56, 500	5, 305	49, 200	1,476
Croaker	301, 20	00		1, 226	, 400	24, 688	2	00, 000	0, 000	43, 200	-, -, -
ZelsElsFlounders	301, 20 2, 80 50, 40	00	9, 036 224 2, 040		, 800	1, 032		1, 200	60		220

Fisheries of Virginia, 1930-Continued

CATCH: By counties-Continued

	Lane	caster		Ma	itthe	ows		M	ddle	sex		Nam	sen	nond		
Species	Pounds	Valu	ie 1	Pound	is	Val	ue	Poun	ds	Val	lue	Pound	5	Value		
Menhaden	30, 578, 60	0 8202. 8	804													
Pigfish				1,	700		\$85					*****				
Pigfish Pike or pickerel								400	80	_	\$20 .		200	20.000		
had panish mackerel.	930, 88	4 126, 2	221	1, 100,		220,		48,	200	7,	, 230	35, 8				
panish mackerel	90, 60	0 4,8	530		200	1	648	16	000	***	800		7			
pot	50,00	4,1	200	40,	200	.,	UKO	40,	-		000					
gray	315, 40	0 9,4	174	1, 322,	700	39,	761	27,	700		, 385 .					
triped bass	21, 70	0 3, 2	262	1,	400		210		500	3,	, 075	4 2	100	60		
Vhite perch	9, 20		552		700		42	11,	000		330	-	200	20		
Vhitingvellow perch	1, 20	0	Appropriate Control						777							
rabs:					-						-					
Hard	856, 40	0 12, 8	846	2, 175,			625		000	14,	, 600	105, 0	000	2, 100		
Soft				50,	000	4,	440				****	*****				
Dysters: Market, public, spring	206.41	7 30,0	000	38	690	5.	076	239	675	34	, 938	70.3	115	6,030		
Market, public, fall	564, 64	7 82,		195,	236		614				812	210, 9	145	15, 375		
Market, private, spring	59, 68	2 8.7	700	20,	580	2,	400	129,	201	18	, 834	161, 8	196	14, 160		
Market, private, fall	1, 222, 31	5 178,	180	322,			600	258,	389	37	, 666	620, 1	144	45, 200		
Seed, public, spring									000	1,	,000	16, 5 64, 6				
Seed, public, fall			- 4 5 -					40,	001	-	, 000	04, 0	-01	0, 200		
Total	37, 205, 65	5 720,	070	8, 179,	956	413,	462	2, 582,	956	233	, 645	1, 343, 0	001	97, 668		
	New I	Kent		Norf	olk		N	orthan	ptor	1	No	ethum	ber!	land		
Species			-			-										-
	Pounds	Value	Pot	inds	Val	ue	Po	unds	Valu	10	Pot	unds	1	alue		
Alewives	7.200	\$144	1	9, 500	9	3293		57, 600	\$5	197	9.7	762, 711	9	114, 289		
Alewives	1,200	0.444		440		44		92, 156	4, 7			10, 400				
Bonito								35, 815	1, 7	91].						
Butterfish			1	0, 507		525	1, 0	16, 823	40, 6	173		21, 400		1,498		
Bonito Butterfish Carp Catfish and bullheads Cod	12,000	180														
Cod	0,000	150		3, 360		67		19, 643	3	183						
_roaker			59	6,780	13,	883		74, 291		311	1,2	292, 400		35, 932		
Drum, black								2, 400		72		1 000				
Eels				0,064		545		9,865 57,750		103		1,800 38,800		1,675		
Gizzard shad	6, 500	140				040		01,100				90,000		2,010		
Eels Flounders Gizzard shad Hake	0,000			1.422		42										
Hickory shad King whiting or ''kingfish'' Mackerel	800	40										51,800		1,604		
King whiting or "kingfish"				589		24										
Mackerel Menhaden								44, 674 48, 000	4, 4	340	85 5	215, 000		564, 066		
Mullet								84, 400			ou, .	110,000				
Pigfish				200		10		1,400		70						
Scup or porgy			1	3, 517		541		64, 897		596			***			
Sea bass Shad	61 900	10.020	2	7, 366 2, 450	7.	589 841		8, 907 13, 407	2,0	712	17	037, 023		162, 143		
Spanish mackerel	01, 500	10,070		2, 400	υ,	041		200		20	1,1	101, 020		102, 110		
Spanish mackerel Spot Squeteagues or "sea trout":			1, 41	7,000	70,	850	1	22, 135		116		4, 100		222		
Squeteagues or "sea trout": Gray			11	8, 527 14, 500	ο,	706 340		07, 351	245, 9	970	. 2	338, 900		12, 572		
Striped bass	7.500	1. 125		14, 500		040		6,065		923		78,600		13, 848		
				90		30										
White perch		115		595		24		******				2,000		112		
WhitingYellow perch	100	10		3, 252		130		1, 755		87						
Crabs:	100	10														
Hard			1, 44	1,800	26,	045	1,3	16, 100	25, 5	572		472, 500		52, 087		
Soft								10 71				320,000		32,000		
Squid Clams, hard, public				38		2		16, 545								
Oysters:							1	05, 600	10, (307						
Market, public, spring Market, public, fall								2, 278	1	232		62,928		9, 173		
Market, public, fall								6,846		598	1	235, 346		9, 173 34, 252		
Market, private, spring			67	78, 008	74,	068		42, 098				110, 446		16, 100		
Market, private, fall Seed, public, spring			4, 13	1, 092	200,	, 932		55, 001	37, 3	750	1	475, 398		69, 300		
Seed, public, fall			12	25, 003	10.	000		10,002		500						
Scallops, bay								81,960	25, 6	564						
Total	104 000	10 404	0 0	0.000	440	FO.	10 -	17 000	507	20.5	100	701 770		101 070		
Total	104, 200	12, 424	0, 05	9, 600	448,	, 531	10, 6	17, 603	507, 6	035	102, 8	551, 552	1,	121, 849		

Fisheries of Virginia, 1930—Continued

CATCH: BY COUNTIES-Continued

Species		Prin			Prin		100	Prin Willi		Ri	chn	nond	Spotsy	lvania
Special Control of the Control of th		Pounds	Value	Po	unds	Value	Po	unds	Valu	ie Pour	nds	Value	Pounds	Valu
Alewives		21, 500	\$430		7					74,	000	\$1, 480		
BluefishButterfish					2, 400									
Corp		25 500	1, 275	1	2,000	600					250	210		
Carp Catfish and bullheads	10000	16, 500	495				3	0, 600	\$1.2	24 18	200	910		\$56
Croaker				10	7,000	2, 140)				000		14,000	
Eels										1,	500	105		
Flounders		15 000			1,800	90)							
Gizzard shad Shad		15, 000 42, 200	8 575	11	0.000	19, 800		6, 608	1 0	49 14	050	2, 228		
Spot		42, 200	0,010	15	1, 200	7, 560			1, 0	14,	850 500	75		
Squeteagues or "sea trout	":			1	1, 200	1,000				,	000			
				1	7,000	850								
Spotted					3, 200	384								
White perch		8, 350	1, 252				٠,	8, 200	1, 6	40	0.50	698		
SpottedStriped bass		0, 700	333				1	8, 200 3, 600 5, 460	8	10 13,	950	698	8, 400	58
Crab, hard							1	0, 400		3.	500	70	36, 000	75
Ovsters:	- 1000			1			1							1
Market, public, sprin Market, public, fall Market, private, spri Market, private, fall	g									32,	269	4, 704		
Market, public, fall_	nor.			10	0 743	20 002				96,	808	14, 112		
Market private, spri	ng			26	5 130	57 078				201	856	18, 109 26, 608		
market, private, fair.				20	0, 100	01, 510				201,	000	20, 000		
Total		135, 750	10, 702	80	2, 480	118, 664	64	, 468	5, 1	54 619,	713	70, 069	58, 400	1, 86
energy and a second	St	afford	S	urr	У	V	Varv	vick	V	Vestmo	rela	ind	York	
Species									_ _					
Species	Poun	ds Valu	ie Pou	nds	Valu	e Pou	nds	Valu	ie I	ounds	Vε	lue F	ounds	Value
Alewives			20	500	\$41	.0 74	000	\$1, 1	10	291, 307	\$5.	200	41, 500	\$41
Bluefish					7,00								17,600	1, 72
Butterfish						-	500		25				19,800	1, 7
Carp			40,	600	1, 53	0				10, 400 27, 600 21, 800)	832		
Catfish and bullheads	11, 6	500 \$58	43,	800	1,30	8 53	000	1, 0	ico	27, 600	1,	426 1	658, 700	30 0
Drum:			0,	200	10	55	, 000	1, (100	21, 000	1	450 1,	000, 100	00, 0
Black													1,000	- 5
Red or redfish													25, 200	99
Eels													200	
EelsFlounders				200		- 10	, 000		00	400			226, 700	10, 11
Pigfish	2, 0	000	25,	600	7.0	18	400		10	400	1	0	64,000	3, 20
Pompano													2,000	4(
Pompano Scup or porgy													170,000	8,00
Sea bass													130, 000 112, 000	9, 20 18, 30
Sea bass Shad Spanish mackerel	2, 2	205 37	78 78,	200	11, 73	81	, 000	13, 2	30	38, 382	6,	660	112, 000	18, 30
spanish mackerel													29, 300 368, 500	4, 39
Spot Squeteagues or "sea													300, 000	20, 21
trout':														
Grav						_ 20	, 800	1, 2	48	28, 050)	709	258, 600	14, 52
Spotted							0.10		20	95 000		440	150, 000	18, 00
Striped bass Sturgeon	2,	700 40	05 14,	700	2, 20	15	, 240	2, 4	30	35, 260	0,	440	43, 400 2, 500	6, 51
White perch	6 6	000 3	18 12,	300	61	5 6	, 300	E	04	19,000)	950	500	1
Yellow perch	1.5		14	300						3,400)	272		
Yellow perch Crabs, hard	9, (35			- 62	, 400	1, 2	48	960,000	14,	400 7,	600,000	152, 10
Clams, hard, public													583, 600	146, 42
Oysters:														
Market, public,						64	, 724	5, 6	61	30, 774	4	486	255, 535	22, 33
Market, public, fall_							172	16, 9	83	296, 791	43.	264	766, 605	73, 03
Market, private,								20,0			,			
spring													30, 527	2, 67
Market, private, fall_ Seed, public, spring_							-===						71, 275	6, 23
Seed, public, spring.						911	, 519	45, 5	75			1	579, 177 158, 356	28, 95
Seed, public, fall						_ 1, 823	, 537	91, 1	10			l,	100, 000	01,01
	0= 0	000	-0 01	200	10.75	00.010	700	100 5	71 1	782 164	24	027 14	266 575	347 42

35, 305 2, 050 241, 700 18, 752 3, 318, 592 180, 771 1, 763, 164 84, 037 14, 366, 575 647, 436

Industries related to the fisheries of Virginia, 1930 TRANSPORTING

Item	Acco- mac Coun- ty	Eliza- beth City Coun- ty	Glou- cester Coun- ty	Isle of Wight Coun- ty	King and Queen Coun- ty	Lan- caster Coun- ty	Math- ews Coun- ty	Mid- dlesex Coun- ty
Persons engaged on vessels	Number 95	Number 18	Number 23	Number 8	Number 11	Number 83	Number 57	Number 40
Vessels:	36 10 4 2	3 5	6 6	2 2	3 1	21 14 3	18 11	9 6 2 1
TotalNet tonnage	52 577	8 95	12 123	4 42	5 72	40 585	29 287	18 244
Sail— 21 to 30 tons Net tonnage							1 30	
Total vessels	52 577	8 95	12 123	4 42	5 72	40 585	30 317	18 244
Item	Nanse- mond Coun- ty	Nor- folk Coun- ty	North- amp- ton Coun- ty	North- umber- land Coun- ty	Rich- mond Coun- ty	West- more- land Coun- ty	York Coun- ty	Total
Persons engaged on vessels	Number 26	Number 5	Number 14	Number 74	Number 15	Number 2	Number 30	Number 501
Vessels: Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons 71 to 80 tons 81 to 90 tons 101 to 110 tons			8	25 9 3	5 1	1	9 6	155 77 12 5 2 1
TotalNet tonnage	13 121	2 19	8 59	39 561	7 85	1 19	15 157	253 3, 046
Sail— 21 to 30 tons Net tonnage								1 30
Total vessels	13 121	2 19	8 59	39 561	7 85	1 19	15 157	254 3, 076

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Accomac County	Arling- ton and West- more- land Counties	Eliza- beth City County	Essex and Rich- mond Counties	Glouces- ter, King William, and Mathews Counties	Isle of Wight County	Lancas- ter County
Establishments Persons engaged:	77	4	20	5	4	3	30
Proprietors	96 7	4	29 16	9	5 2	6	41
Average for season Average for year	600 297	16 7	495 241	94 29	105 52	63 22	823 262
Paid to salaried employees Paid to wage earners	\$6, 110 190, 847	\$1,020 4,735	\$30, 916 151, 515	\$13, 040	\$1, 190 28, 060	\$1,040 11,680	\$11,000 130,599
Total salaries and wages	196, 957	5, 755	182, 431	13, 040	29, 250	12, 720	141, 599

Industries related to the fisheries of Virginia, 1930-Continued

WHOLESALE AND MANUFACTURING-Continued

OPERATING UNITS, SALARIES, AND WAGES-Continued

Middle- sex County	Norfolk County	North- ampton County	North- umber- land County	Warwick and York Counties	Total
7	15	18	29	8	220
8 1	24 37	28 4	43 5	10 1	303 78
127 41	883 441	409 153	791 245	42 27	4, 448 1, 817
\$150 22, 348	\$63, 209 303, 012	\$4, 620 60, 278	\$20, 400 138, 335	\$1, 200 24, 818	\$140, 855 1, 079, 267
22, 498	366, 221	64, 898	158, 735	26, 018	1, 220, 122
	7 8 1 127 41 \$150 22,348	Sex County 7 15 8 24 1 37 127 883 41 441 \$150 \$63, 209 22, 348 303, 012	sex County Norion County ampton County 7 15 18 8 24 28 1 37 4 127 883 409 41 441 153 \$150 \$63, 209 \$4, 620 22, 348 303, 012 60, 278	Norfolk Norfolk Ampton County Norfolk Norfolk Norfolk Sex County Counties	

PRODUCTS MANUFACTURED

Item	Quantity	Value
Alewives:		
Saltedpounds_	6, 207, 590	\$197, 178
Cannedstandard cases	38, 239	114, 540
Roe, canneddo	36, 677	185, 133
Scrap, drytons	860	41, 004
Oilgallons	31, 389	6, 673
Butterfish, pandressedpounds_	63, 986	7, 610
Croaker:		
Pandresseddo	858, 705	83, 926
Fresh filletsdo	23, 000	2, 82
Flounders, pandresseddo	85, 565	10, 032
Haddock, fresh filletsdo	249, 581	43, 050
Menhaden:		
Dry scrap and mealtons_	14, 325	698, 439
Oilgallons	1, 682, 733	338, 377
Spot, pandressedpounds_	34, 445	4, 451
Squeteague: Pandresseddo	1000000	39 50
Pandresseddo	802, 309	85, 014
Fresh filletsdo	213, 435	35, 285
Whiting, pandresseddo	88, 445	6, 023
Crab meat, packaged (fresh-cooked)dodo	1, 364, 334	510, 562
Fresh-shuckedgallons_	1, 384, 836	2, 340, 024
Shell products— Poultry feedtons	18, 519	166, 444
Lime	10, 798	62, 186
Lime, "burned" do	9, 847	89, 290
Scallops, bay, fresh-shucked gallons	64, 526	84, 967
Unclassified products:		
Packaged 1	(2)	73, 478
Oil 3gallons	8, 435	1, 847
By-products tonstons	1, 542	39, 742
Total		5, 228, 100

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 479]

Scallops, bay, fresh-shuckedgallons	136, 000	\$100,000

¹ Includes fresh cod and shad fillets, pandressed bluefish and haddock, shucked hard clams, and canned crab meat.

² Data not available.

³ From mixed species.

⁴ Includes crab scrap and miscellaneous fish scrap and meal.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country: therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 479 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

SHAD AND ALEWIFE FISHERIES OF THE POTOMAC RIVER

The catch of shad in the Potomac River in 1931 amounted to 294,425 roes, and 331,074 bucks, having a combined weight of 2,061,036 pounds, and a total value to the fishermen of \$193,505. The catch of alewives for the same season amounted to 18,380,850 in number with a total weight of 7,352,340 pounds, and a value to the fishermen of \$55,460. These figures indicate an increase of 243 per cent in the weight and 97 per cent in the value of shad as compared with 1930 and 136 per cent in the weight and 12 per cent in the value of the alewives. About 70 per cent of the shad were taken in pound nets, nearly 30 per cent in gill nets, and the remainder incidentally with haul seines. More than 99 per cent of the alewives were taken in pound nets. The remainder were taken in gill nets and haul seines.

Shad and alewife fisheries of the Potomac River, 1931

	N	Maryland	ĺ	er edite	Virginia			Total	
Item	Num- ber	Pounds	Value	Number	Pounds	Value	Number	Pounds	Value
Fishermen on boats and shore— Regular————————————————————————————————————							375 306		
Total	182			499			681		
Boats: Motor Other	53 55						218 185		
Apparatus: Pound nets Gill nets Square yards_	700 266, 955			764 215, 190			405 1, 464 482, 145		
Haul seines Length, yards.							2, 100		
Shad caught: With pound nets With gill nets With haul seines		33, 308 304, 210			1, 398, 837 320, 631 4, 050		438, 565 185, 734 1, 200		45, 865
Total	100, 417	337, 518	24, 431	525, 082	1, 723, 518	169, 074	625, 499	2, 061, 636	193, 505
Alewives caught: With pound nets. With gill nets With haul seines.		391, 100			22, 000	385		22,000	55, 055 385 20
Total	977, 750	391, 100	3, 851	17, 403, 100	6, 961, 240	51, 609	18, 380, 850	7, 352, 340	55, 460

TRADE IN FRESH, FROZEN, SMOKED, AND PACKAGED FISHERY PRODUCTS IN WASHINGTON, D. C.

The municipal fish wharf and market in Washington, D. C., is located in the southwestern part of the city on an arm of the Potomac River. At the present time 16 fishery firms have stalls in the market, 3 firms are in private buildings across the street, and 4 firms have stalls in the new Center Market. Altogether the 23 above firms employed 120 persons who received \$89,542 in salaries and wages during 1931. Of the total employees, 103 were regularly employed. These firms conduct a wholesale and retail business, chiefly wholesale however.

During the year 1931 the receipts of fresh and frozen fishery products as received at the municipal wharf amounted to 9,305,465

pounds. This is an increase of 4 per cent as compared with the year 1930, and an increase of 11 per cent as compared with the 5-year

average.

During the year 1931 four firms in Washington, D. C., smoked fishery products which amounted to 268,000 pounds, valued at \$27,885. Of this amount, 240,000 pounds valued at \$20,950 consisted of herring; 25,050 pounds valued at \$6,815 were whitefish while the remainder, 3,000 pounds, valued \$120, were alewives or "river herring." There were two firms which shucked oysters mostly for select retail trade. Their production amounted to 7,600 gallons, valued at \$16,720. Most of the smoked fish and shucked oysters were marketed in the city.

Fishery products received at municipal fish wharf and market, Washington, D. C., 1931

Species	January	February	March	April	May	June	July
0,7 100 00 3 7 100	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Alewives (river herring)	14, 500	47, 400	156, 900	302, 700	154, 800	8, 200	
Black bass	7,600	14,700	29, 500	26, 400	2, 400	6, 800	8, 200
Bluefish	200	1, 400	1, 100	400	13, 700	9,900	15, 700
Butterfish	100	800	1, 800	3, 800	45, 100	60, 124	65, 700
Carp.	16, 050	5, 200	15, 000	5, 700	12, 700	5, 900	2, 840
Catfish	5, 500	7, 500	17, 800	18, 900	10, 100	7, 900	700
Cod	1, 600	3, 200	4,000	2,000	1,000	300	400
Charles	45, 800	41, 000	40, 500	276, 600	193, 400	199, 900	332, 000
Croaker Drum, red or redfish			40, 500	270,000	195, 400	440	150
Druin, red or rednsn	3, 500	1,000	000	1 200			100
Eels	200	200	200	1, 300	1,400	200	14 000
FloundersGizzard shad	35, 800	49, 700	53, 700	26, 600	19, 900	10,000	14, 800
Gizzard shad	10, 900	9, 800	2, 200	1, 400			
Haddock	44, 160	54, 730	75, 070	60, 660	36, 610	29, 470	29, 730
Hake	200		200	1, 900	3, 500		
Halibut	5, 300	4, 400	9, 300	8, 800	5, 700	7,300	5, 800
Halibut Hickory shad or ''jacks''	700	6, 300	4, 900	2, 400	100		
				500	400		
Kingfish or "king mackerel"				1,600	500		
King whiting or "kingfish"		500	600	-/			
Kingfish or ''king mackerel'' King whiting or ''kingfish'' Mackerel	35, 400	42, 600	32, 800	14, 100	18, 300	25, 510	25, 900
Mullet	6,600	10, 100	1, 400	400	,	200	600
Perch	11, 150	8,000	25, 900	33, 000	6, 300	2,600	1, 200
Pike or pickerel	900	1, 100	1, 500	1,000	600	800	500
Pollock	1, 300	1, 300	800	1,000	2,000	2,500	1, 200
	1, 500	600	000	200	2,000	2,000	1, 200
Pompano	1 000		1,800	1, 500	3,700	4,700	4,700
Salmon	1,000	3, 500		8, 300	3, 600	4, 200	1,700
Scup or porgy	7,800	26, 000	27, 700	8, 500	100	4, 200	1, 700
Sea bass	04 000	10 000		024 140	377, 600	7,000	
Shad	34, 900	13, 800	55, 800	234, 140	377,000	7,000	
Sheepshead			200				
Skates			100				
Smelt	1, 200	2, 825	4, 530	1, 200			
Snapper, red	200	800	200	200	200	300	100
Spot	1,000				400	10, 800	31, 400
SpotSqueteagues or ''sea trout'' Striped bass	106, 400	54, 100	37, 500	32, 900	280, 400	235, 500	187, 000
Striped bass	3,700	4, 300	12,800	38, 000	8, 100	2, 500	3, 900
Sturgeon				100	150		
Swordfish			400			100	500
Tilefish	600	800	500	400	200		100
Whitefish		100	100	100		800	900
Whiting		2,800					
Crabs:		2,000					
Hard				525	16, 425	76, 275	103, 950
Soft				2, 205	12, 420	11,745	11, 115
Ovster		5		_,	,		
	2,000	1,795	2, 990	5, 925	15, 505	25, 905	26, 730
Crab meat	150	400	850	4, 350	4, 050	3, 750	1,800
Lobsters (alive)	150	400	750	4, 000	1, 000	0, 100	1,000
Lobsters (cooked)		125	100	190	125	20	325
Lobster meat			8, 600	4, 800	8, 400	8, 300	4, 300
Shrimp	5, 100	6, 300	8, 600	4, 500	300	100	1,000
Squid	2, 900	0.000		0 400		6, 656	7,072
Clams, hard	5, 152	3, 968	5, 024	6, 400	6, 944	0, 000	1,012
Oysters:	00.055	10.155	75 000	0 540	21		
In the shell (meat)	32, 333	17, 115	15, 393	3, 549	21		
Opened (meat)	78, 522	64, 838	60, 401	16, 345		000	
Scallops	960	80	560	640	640	280	
Frogs		13		84	134	95	15
Terrapin	1, 024	144		80			
Turtles	872		144	416	968	620	96
Total	533, 273	515, 338	711, 612	1, 153, 709	1, 268, 992	777, 690	891, 123

Fishery products received at municipal fish wharf and market, Washington, D. C., 1931—Continued

Species	August	Septem- ber	October	Novem- ber	Decem- ber	Total
es per la reconterado	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Alewives (river herring)						684, 50
Black bass	3, 900	4, 200	4, 300	2, 200	3, 800	114, 00
Bluefish	13, 400	18, 700	34, 300	11, 500	5, 600	125, 90
Butterfish	48, 500	40, 300	41, 100	78, 500	25, 718	411, 54
Carp.	1, 500	11, 500	7, 500	8,000	9,600	101, 49
Catfish	700	7,900	15, 300	22,000	16, 400	130, 70 18, 10
Ood	500	149 400	800	1,000	2,800	
OroakerOrum, red or redfish	180, 600	148, 400	76, 300 30	59, 600 200	89, 500	1, 683, 60 5, 42
Eels		200	1, 500	2,000	3, 400	10, 60
Flounders	9, 700	17, 100	21, 500	33, 000	29, 900	321, 70
Fizzard shad	0, 100	17, 100	400	240	8, 800	33, 74
Haddock		16, 270	24, 895	24, 030	32, 300	442, 10
Take	14, 100	10, 210	21,000	800	5, 800	12, 40
Halibut	4, 700	5, 900	6,600	5,000	3, 600	72, 40
lickory shad or "jacks"	1, 100	0,000	0,000	0,000	0,000	14, 40
Hogfish	200	200				1, 30
Kingfish or "king mackerel"	600	200		200	4, 400	7, 50
Kingfish or ''king mackerel'' King whiting or ''kingfish''	000		1,500	2,600	-,	5, 20
Mackerel	15,600	19, 400	11,800	10, 400	14, 200	266, 01
Mullet	400	4, 400	8,600	11, 900	4, 400	49,00
Perch	2, 500	5, 400	8, 100	6, 700	10,800	121, 65
Pike or pickerel	600	2,000	1,700	1, 100	500	12, 30
Pollock	2, 400	400	2, 100	1, 200	400	16, 60
Pompano						80
almon	2, 400	3, 600	3, 100	3, 100	1,600	34, 70
cup or porgy	500	400			1, 200	81, 40
Sea bass						10
Shad						723, 24
Sheepshead				200		40
8kates						10
melt				60	705	10, 52
napper, red	500	1, 100	400	600	300	4, 90
Spot	51, 200	115, 400	125, 400	15, 800	4, 200	355, 60
spot queteagues or ''sea trout'' striped bass	133, 300	208, 600	278, 600	223, 500	108, 800	1, 886, 60
striped bass	2, 600	6,600	22, 900	17, 700	12,600	135, 70
SturgeonSwordfish	600	800	80 500	200		2, 90
Cilefish	400	300	500	300	200	3, 50
Vhitefish	900	1,900	900	800	600	7, 10
Vhiting	500	1, 500	300	800	000	2, 80
Prabs:						2, 00
Hard	60, 750	51, 450	10, 050	75		319, 50
Soft.	12, 195	15, 795	9, 270	135		74, 88
Oyster	12, 100	20, 100	0,210	100		11,00
Crab meat	14, 285	12, 645	11, 450	5, 835	4, 875	129, 94
ea crawfish or ''spiny lobster'' Jobsters (alive)	11, 200	22,010	22, 200	150	50	20
Lobsters (alive)	650	750	2,850	1, 350	650	21, 60
obsters (cooked)						75
Lobster meat	100	30	135	50		1, 20
Shrimp	5, 200	3,900	7, 900	5, 800	3, 400	72,00
quid			100	400	2, 400	6, 20
Clams, hard	6, 720	6, 880	5, 920	3, 552	4,096	1 68, 38
)ysters:						
In the shell (meat)		2, 044	26, 355	50, 442	105, 413	2 252, 66
Opened (meat)		2, 686	48, 781	63, 149	98, 411	3 433, 13
callops	160	240	720	1, 280	1, 080	6, 64
rogs			12			35
Cerrapin			600			1, 84
Curtles	4					3, 12
Total	500 444	727 700	994 940	076 040	600 400	0 205 40
Total	592, 444	737, 790	824, 348	676, 648	622, 498	9, 305, 46

^{1 8,548} bushels.

Note.—The clams have been reduced to pounds on the basis of 8 pounds of meat to a bushel, the oysters on the basis of 7 pounds of meat to a bushel, and $8\frac{3}{4}$ pounds to a gallon.

FISHERIES OF THE SOUTH ATLANTIC AND GULF STATES 9

The yield of fishery products in the South Atlantic and Gulf States (North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas) during 1930 amounted to 417,759,466

² 36,095 bushels.

^{8 49,501} gallons.

With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

pounds, valued at \$11,064,819. This is a decrease of 22 per cent in the volume of the catch and 26 per cent in its value as compared with the previous year. Of the total catch in 1930, 301,218,657 pounds, valued at \$5,277,727, were fish, and 116,540,809 pounds, valued at \$5,787,092, were shellfish and miscellaneous products. These fisheries gave employment to 23,590 fishermen or a decrease of 11 per cent as compared with the previous year. Of the total number of fishermen employed during 1930, 3,454 regular fishermen were engaged on vessels and 15,965 regular and 4,171 casual fishermen were employed in the boat and shore fisheries.

Fisheries of the South Atlantic and Gulf States, 1930 SUMMARY OF CATCH

	North C	arolina	South C	arolina	Geor	gia
Product	Pounds	Value	Pounds	Value	Pounds	Value
FishShellfish, etc	163, 145, 785 5, 792, 920	\$1,469,682 366,799	1, 017, 836 4, 087, 761	\$83, 337 169, 522	25, 610, 484 9, 262, 037	\$181, 160 355, 134
Total	168, 938, 705	1, 836, 481	5, 105, 597	252, 859	34, 872, 521	536, 294
	Flor	ida	Alab	ama	Mississ	sippi
Product	Pounds	Value	Pounds	Value	Pounds	Value
Fish Shellfish, etc	99, 740, 175 20, 674, 961	\$2, 829, 759 1, 815, 993	3, 761, 479 3, 351, 760	\$192, 423 123, 045	1, 671, 153 14, 064, 377	\$87, 787 652, 347
Total	120, 415, 136	4, 645, 752	7, 113, 239	315, 468	15, 735, 530	740, 134
	Louis	iana	Tex	as	Tota	al
Product	Pounds	Value	Pounds	Value	Pounds	Value
FishShellfish, etc	1, 954, <u>5</u> 86 47, 931, <u>3</u> 14	\$114,678 1,845,679	4, 317, 159 11, 375, 679	\$318, 901 458, 573	301, 218, 657 116, 540, 809	\$5, 277, 727 5, 787, 092
Total	49, 885, 900	1, 960, 357	15, 692, 838	777, 474	417, 759, 466	11, 064, 819

OPERATING UNITS: BY STATES

Item	North Caro- lina	South Caro- lina	Georgia	Flor- ida	Ala- bama	Missis- sippi	Louis- iana	Tex- as	Total
Fishermen: On vessels	Num- ber 1, 159	Num- ber	Num- ber 144	Num- ber 867	Num- ber 142	ber	Num- ber 370	Num- ber 178	Num- ber 3,454
On boats and shore— Regular————————————————————————————————————	2, 693 1, 353	705 756		6, 176 737			2, 775 238		15, 965 4, 171
Total	5, 205	1, 500	987	7, 780	666	2, 103	3, 383	1, 966	23, 590
Vessels: Steam Net tonnage			3 166						3 166
Motor Net tonnage	110 2, 140	10 124		98 3, 174	30 335		148 1, 074	44 535	589 9, 255
Sail Net tonnage	67 631			527		5 66			78 1, 224
Total vessels Total net tonnage_	177 2, 771	10 124		104 3, 701	30 335		148 1, 074	44 535	670 10, 645

Fisheries of the South Atlantic and Gulf States, 1930—Continued OPERATING UNITS: By STATES—Continued

Item	North Caro- lina	South Caro- lina	Georgia	Flor- ida	Ala- bama	Missis- sippi	Louis- iana	Tex- as	Total
sulfa 7 Turadiga	Num-	Num-	Num-	Num-	Num-	Num-	Num-	Num-	Num-
oats:	ber	ber	ber	ber	ber	ber	ber	ber	ber
MotorOther	1, 375 1, 586	51 969	178 421	2, 332 3, 220	185 183	401 615	997 1, 073	431 498	5, 950 8, 565
cessory boats	123	303	12	21	13	010		100	169
paratus:						1			
Purse seines— Menhaden	52		3	17	368				72
Length, yards	13, 335		900	4,960					19, 195
Other	4			2					6
Length, yards	700			600					1,300
Haul seines— Common	580	21	16	173	8	45	138	63	1,044
Length, yards	80, 708	3,535				9, 220	27,875	11, 250	204, 558
Long	87			80					167
Length, yards Gill nets—	84,650			64, 200					148, 850
Anchor	2,529	282	27	42				2	2, 882
Square yards	1, 287, 852	82,000	6,090	25, 200				2,000	1,40 ,142
Drift	170	157		212					685
Square yards Runaround	172, 203 426	160, 790 27	275, 045 45	330, 450 2, 213			1	109	938, 488
Square yards	198, 979	13,000		2, 812, 854			30	23,854	2, 814 3, 063, 027
Stake	11, 229 741, 300		105	2				383	11, 719
Square yards	741, 300			1, 080 180		55	50	95, 294 80	892, 214 449
Trammel nets Square yards				129, 568			13, 712		216, 408
Lines—				120,000	20, 002	11,100	20,112	20, 001	
Hand	98	127		1, 579	149	167	147	459	
Hooks	396 15	460	16	2, 809 1, 309	271	201	152	678	4, 983 1, 334
Hooks	15			1, 814	2			8	1, 839
Trot, with baits or				2,021	1 1 1				
snoods	177	6		8	14	66	288	33	598
Baits or snoods Trot, with hooks	122, 800 14	4,800		1, 700 241	2, 475 177	20, 795	58, 370	4, 300	217, 190 539
Hooks	840			106, 740	17, 900		300	5, 500	
Pound nets	2, 343			52					2, 395
Weirs Wheels	4 50								50
Fyke nets	847		60	2, 950	119				3, 976
Dip nets—					an local				
Common	244	10		62 31		020	1 700		316
DropCast nets			40	44		232 54	1,700		1, 963 141
Otter trawls—			10						
Fish	4								4
Yards at mouth_ Shrimp	74 52	36	182	327	138	363	940	264	2, 302
Yards at mouth	908	675	3, 774			4, 607			
Box traps	10								10
Wire baskets Turtle traps	30			520					520 30
Pots—	00								00
Crab			30	1,383					1, 413
Eel Sea crawfish	1, 502			90 2, 533					1, 592
Spears	54	30		2, 555	21	76		175	2, 533 382
Dredges—				-	7				
Clam				1			72		73
Yards at mouth_ Crab	80						72		72 80
Yards at mouth	107								107
Oyster	243	2				437		38	720
Yards at mouth_ Scallop	241 328	3		2		443		37	724 330
Yards at mouth	318			2					320
Tongs	480	77	108	420	116	440	526	330	2, 497
Rakes	643	47	6						696
ForksGrabs		501	84	58					58 585
Hooks-		001	04						000
Sea crawfish and			Sile or I	et l	Wine.				
stone crab				2,000 283					2, 000 283

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Fisheries of the South Atlantic and Gulf States, 1930—Continued CATCH: BY STATES

Alewives		North Ca	arolina	South C	arolina	Geor	rgia
Alewires	Species	Pounds	Value	Pounds	Value	Pounds	Value
Black bass 106, 413 15, 545 100 10 1, 012 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 1, 012 10 10 10 1, 012 10 10 10 1, 012 10 10 10 1, 012 10 10 10 1, 012 10 10 10 1, 012 10 10 10 1, 012 10 10 10 10 1, 012 10 10 10 10 10 1, 012 10 10 10 10 10 10 1, 012 10 10 10 10 10 10 10	FISH				(facult	0.72.50(6.,10)	12-12-10
Black bass Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Bluefish Blowfin Bluy 200 Bowfin Bluefish Black Bed or redfish Black Bluefish B	Namina	0 000 707	960 200	2 000	810		
Bluefish		106, 413		2,000	φ10		
Bowfin 19,230 558 Butterfish 1852,560 4, 301	Bluefish	842, 935	41, 781	100		1,012	\$227
Butterfish	Bonito	18, 850					
Carp. 470, 189 32, 409 Cero Cartish and builheads. 460, 072 20, 307 2, 000 40 228, 000 Cero 9, 000 680 Crooker 5, 108, 310 75, 419 2, 000 60 115, 500 Drum: Black	Butterfich	182 560					
Cero							
Cod. Crapple	Catfish and bullheads			2,000	40	228, 000	7, 100
Crappie							
Croaker 5, 108, 310 75, 419 2, 000 60 15, 500 Drum: Black 500 25 1,000 Red or redfish 145, 050 2,474 8,350 466 5, 250 Eels 142, 200 10, 787 1788 30, 025 2, 266 8, 800 Garish 100 6 6 6 7, 354 6 Grunts 18, 000 300 8, 000 640 300 Grunts 18, 000 300 8, 000 640 300 Harvestfish or "starfish" 343, 300 10, 111 111 <td>Crappie</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Crappie						
Red or redfish	Croaker						310
Eels	Black						30
Flounders	Red or redfish			8, 350	400	5, 250	210
Garfish. 000 66 Girzard shad. 38, 991 614 Groupers. 07, 354 Groupers. 18, 000 360 8, 000 640 300 Harvestfish or "starfish" 343, 300 10, 111 Hickory shad. 323, 960 13, 857 7, 500 330 25, 500 Harvestfish or "kingfish" 122, 350 11, 165 38, 080 3, 451 38, 250 Jewfish 18, 001 20, 200 15, 35, 631 Henhaden. 134, 061, 240 535, 631 Henhaden. 2, 286, 303 14, 344 412, 000 20, 972 176, 800 Hulet. 2, 286, 31, 434 412, 000 20, 972 176, 800 Hulet. 9, 200 1, 596 725 22 Plike or pickerel. 9, 200 1, 137 Plike or pickerel. 9, 200 1, 137 Plike or pickerel. 9, 200 1, 137 Porgles. 173, 260 907 100 15 Porgles. 173, 260 907 100 15 Sea bass. 173, 260 907 100 15 Sea bass. 173, 260 907 100 15 Sea bass. 173, 260 907 100 15 Sharks. 11, 172, 161 260, 989 214, 492 32, 365 274, 755 Sharks. 11, 1615 585 100 10 Sharks. 10, 000 200 Sharks. 10, 000 200 Sharks. 10, 000 200 Sharks. 11, 1615 585 100 10 Skates. 10, 000 50 Sharks. 13, 165 11, 776 Spot. 2, 326, 700 38, 334 28, 300 669 11, 900 Spatieflish. 100 6 350 Squirelfish. 150 6 350 18 Squirelfish. 150 6 350 18 Squirelfish. 150 6 350 18 Squirelfish. 150 6 350 18 Squirelfish. 150 6 6 350 18 Squirelfish. 150 6 6 350 18 Striped bass. 450, 876 60, 550 Sturgeon. 2, 600 840 Squirelfish. 8, 707 Tripletall. 500 19 White perch. 442, 208 32, 902 Yellow perch. 96, 200 6, 621 Total. 163, 145, 785 1, 469, 682 1, 0,17, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 Hard. 1, 159, 500 18, 905 26, 000 780 228, 000 Sources. 350 11, 200, 14, 00 2, 240 White perch. 442, 208 32, 902 Yellow perch. 96, 200 6, 621 Total. 163, 145, 785 1, 469, 682 1, 0,17, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 Hard. 1, 159, 500 18, 905 26, 000 780 228, 000 Sources. 350 11, 200 1, 400 2, 240 White perch. 96, 200 6, 621 Total. 163, 145, 785 1, 469, 682 1, 0,17, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 Hard. 1, 166, 258 72, 725 1, 742, 057 58, 87, 200, 978 Market, public, foll. 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, public, foll. 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, public, foll				30, 025	2, 266	8, 800	613
Grunts	Garfish	100	6				
Grunts		38, 991	614			7 954	44
Harvestish or "starfish" 343,300 10, 111 Hickory shad 323,960 13, 857 7, 500 330 25,500 Jewfish 232,960 13, 857 7,500 330 25,500 Jewfish 272,350 11, 165 38,080 3, 451 38,250 Menhaden 134,051,240 535,631 412,000 20,072 176,800 Hullet 2,386,350 91,434 412,000 20,072 176,800 Pligfish 94,200 1,596 725 22 Plike or pickerel 9,970 1,137 922 Plike or pickerel 0,970 1,137 920 15,857 22,840 Pompano 8,600 907 100 15 Pompano 8,600 907 100 15 Porgles 1,000 30 100 8 Sea bass 173,250 7,975 107,250 15,887 22,840 Shad 1,172,161 200,989 214,492 32,365 274,755 Sharks 10,000 50 Sheepshead 111,615 585 100 10 700 Skates 10,000 50 Shappers: 3,000 420 200 Skates 13,116 1776 Spanish mackerel 131,165 11,776 Spanish mackerel 131,165 11,776 Spanish mackerel 94,300 58,271 10,900 1,000 48,450 Squeteagues or "sea trout": 2,323,127 82,613 24,000 1,720 3,000 Squeteagues or "sea trout": 2,333,127 82,613 24,000 1,720 3,000 Squeteagues or "sea trout": 2,333,127 82,613 24,000 1,720 3,000 Squeteagues or "sea trout": 2,333,127 82,613 24,000 1,720 3,000 Squeteagues or "sea trout": 2,333,127 82,613 24,000 1,720 3,000 Squeteagues or "sea trout": 3,500 840 14,964 2,993 4,500 Surgeon 2,600 840 14,964 2,993 4,500 Suckers 15,650 724 Sunfish 8,707 185 Striped hass 456,876 60,550 18 Striped hass 456,876 60,550 18 Striped hass 456,876 60,550 18 Striped hass 450,876 60,550 18 Striped hass 450,876 60,550 18 Striped hass 561 57,068 57,068 Striped has 561 57,068 57,068 Striped has 561 57,068 57,068 Striped has 561 57,068 57,068 Striped has 561 57,068 57,068 Striped has 561 57,068 57,068 57,068 Striped has 561 57,068 57,068 57,068 Striped has 561 57,068 57,068 57,068 57,068 Striped has 561 57,068 57,		18,000	360	8,000	640	390	32
Jewfish King whiting or "kingfish"	Harvestfish or "starfish"	343, 300					
Menhaden	Hickory shad	323, 960	13, 857	7, 500	330	25, 500	2, 010
Mullet	Vine whiting or "binefish"	979 350	11 165	38, 080	3.451	38, 250	1, 463
Mullet	Menhaden	134, 051, 240				24, 701, 250	94, 100 9, 793
Pike or pickerel. 9,970 1,187 2,000 80 Pinfish or sailors choice. 31,900 480 2,000 80 Pompano. 8,600 907 100 15 Porgies. 1,000 30 100 8 Shad. 1,172,161 209,989 214,492 32,365 274,755 Shad. 1,172,161 209,989 214,492 32,365 274,755 Shads. 11,615 585 100 10 700 Sheepshead. 11,615 585 100 10 700 Sheepshead. 11,615 585 100 10 700 Sheates. 30 17 300 240 200 Shades. 430 17 300 240 200 Shades. 131,165 1,776 28,300 669 11,950 Spacet. 23,326,790 38,334 28,300 669 11,950 Squirrelish. 150 69	Mullet	2, 386, 350	91, 434			176, 800	9, 79
Pinfish or sailors choice 31,900 480 2,000 80 Pompano 8,600 907 100 15 Porgies 1,000 30 100 8 Sea bass 173,250 7,75 197,250 15,587 22,840 Shad 1,172,161 209,999 214,492 32,365 274,755 Sharks 10,000 200 200 200 Sheepshead 11,615 585 1,000 50 Snappers 3,000 240 200 Red 4,750 195 29,854 Spadefish 430 17 1 Spatish mackerel 131,165 11,776 29,854 Spot 2,326,790 38,334 28,300 669 11,950 Squetesques or "sea trout" 2,332,17 82,613 24,000 1,720 3,000 Squirrelfish 150 6 350 18 18 Striped bass 456,876 60,550 <			1, 596	725	22		
Pompano	Pinfish or sailors choice			2,000	80		
Sea Dass	Pompano	8, 600	907	100			
Shad	Porgies	1,000				22 840	2, 083
Sharks		1 172 161					54, 75
Sheepshead				10,000	200		
Snappers	Sheepshead	11, 615	585			. 700	42
Mangrove 4,750 195 3,000 240 200 Spadefish 430 17 29,854 Spadefish 131,165 11,776 29,854 Spot 2,326,790 38,334 28,300 669 11,950 Squeteagues or "sea trout": 2,333,127 82,613 24,000 1,720 3,000 Spotted 604,309 58,271 10,900 1,090 48,450 Squirrefish 150 150 18 500 Striped bas 456,876 60,550 18 500 Sturgeon 2,600 840 14,964 2,993 4,500 Suckers 15,650 724 14,964 2,993 4,500 Surgeon 2,600 840 14,964 2,993 4,500 Surgeon 2,600 840 14,964 2,993 4,500 White perch 442,208 32,992 4,500 32,900 32,900 Yellow perch 96,200 6,62				1,000	- 50		
Red	Mangrove			3,000	240		16
Spanish mackerel	Red					29, 854	2, 462
Spot	Spadefish						
Squeteagues or "sea trout": 2, 333, 127 82, 613 24, 000 1, 720 3, 000 Spotted 604, 309 58, 271 10, 900 1, 000 48, 450 Squirrelfish 150 6 350 18 Striped bass 456, 876 60, 550 18 Striped bass 2, 000 840 14, 964 2, 903 4, 500 Suckers 15, 650 724 500 14, 964 2, 903 4, 500 Sunfish 8, 797 185 5 500 19 500 19 500 19 500 19 500 19 500 19 500 19 500 19 500 19 500 10 500 19 500 10 500 10 500 10 500 10 500 10 500 10 500 10 500 10 500 10 500 10 500 10 500 10 500 10	Snot			28, 300	669	11,950	219
Spotted 694, 309 58, 211 10, 900 18 500 18 500 5	Squeteagues or "sea trout":			04.000	1 700	2 000	19/
Squirrelish 150 6 350 18 Striped bass 456, 876 60, 550 500 Sturgeon 2, 600 840 14, 964 2, 993 4, 500 Suckers 15, 650 724 500 724 70 <	Gray						3, 895
Strigeon 2 000 840 14, 964 2, 993 4, 500 Sturgeon 2 000 840 14, 964 2, 993 4, 500 Suckers 15, 650 724 Sunfish 8, 77 185 Tripletail 500 19 White perch 442, 208 32, 992 Yellow perch 96, 200 6, 621 Total 163, 145, 785 1, 469, 682 1, 017, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 1, 159, 500 18, 995 26, 000 780 228, 000 Soft 378, 880 57, 068 Stone 378, 880 57, 068 Stone 1, 298, 610 40, 752 792, 733 31, 814 8, 852, 712 Clams, hard, public 1 316, 720 40, 680 11, 200 1, 400 2, 240 Oysters: 1 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 4, 1039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 4, 1039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 546, 078 33, 363 50, 709 Market, private, fall 778, 778, 778	Sanirrelfish						
Suckers	Striped bass				0.000		100
Sunfish				19,909		4, 500	900
Tripletail 500 19 White perch 442, 208 32, 992 Yellow perch 96, 200 6, 621 Total 163, 145, 785 1, 469, 682 1, 017, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 Hard 1, 159, 500 18, 995 26, 000 780 228, 000 Soft 378, 580 57, 068 Stone 350 11 Shrimp 1, 298, 610 40, 752 792, 733 31, 814 8, 852, 712 Clams, hard, public 316, 720 40, 680 11, 200 1, 400 2, 240 Oysters: 1 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 4, 109, 414 14, 988 57, 537		8, 797	185				
White perch 442, 208 96, 200 32, 992 6, 621 Yellow perch 96, 200 6, 621 Total 163, 145, 785 1, 469, 682 1, 017, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 Hard 1, 159, 500 18, 995 26, 000 780 228, 000 Soft 378, 580 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 068 57, 070	Tripletail	500	19				
Total 163, 145, 785 1, 469, 682 1, 017, 836 83, 337 25, 610, 484 SHELLFISH, ETC. Crabs: 1 Hard 1, 159, 500 18, 995 26, 000 780 228, 000 Soft 378, 580 57, 068 Stone 1, 298, 610 40, 752 792, 733 31, 814 8, 852, 712 Clams, hard, public 2 316, 720 40, 680 11, 200 1, 400 2, 240 Oysters: 1 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 4, 103, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 546, 078 33, 363 50, 709 Market, private, fall 276, 414 14, 988 57, 537	White perch						
SHELLFISH, ETC. Crabs: 1 Hard	Yellow perch	96, 200	0, 021				
Crabe: 1 Hard 1, 159, 500 378, 580 18, 995 57, 068 11 26, 000 780 780 228, 000 Stone 378, 580 350 11 792, 733 40, 680 31, 814 120 8, 852, 712 1400 2, 240 Clams, hard, public 2 Oysters: 3 Market, public, spring Market, public, fall 1, 166, 258 1, 039, 416 72, 725 82, 725 1, 742, 057 1,	Total	163, 145, 785	1, 469, 682	1, 017, 836	83, 337	25, 610, 484	181, 160
Hard. 1, 159, 500 18, 995 22, 000 780 228, 000 Soft. 378, 580 57, 088 Stone. 350 11 Shrimp 1, 298, 610 40, 752 792, 733 31, 814 8, 852, 712 Clams, hard, public 3 316, 720 40, 680 11, 200 1, 400 2, 240 Oysters: 3 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 4, 1039, 416 82, 423 640, 078 33, 363 50, 709 Market, private, spring 276, 414 14, 988 57, 537	SHELLFISH, ETC.						
Soft	Crabs: 1	4 480 800	10.007	26,000	790	228 000	4, 56
Stone 350 11 792, 733 31, 814 8, 852, 712 Clams, hard, public 2 316, 720 40, 680 11, 200 1, 400 2, 240 Oysters: 3 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 546, 078 33, 363 50, 709 Market, private, fall 276, 414 14, 988 57, 537			18, 995 57, 068	20, 000	700	220,000	3,000
Shrimp 1, 298, 610 40, 752 792, 733 31, 814 8, 892, 712 Clams, hard, public 2 316, 720 40, 680 11, 200 1, 400 2, 240 Oysters: 1 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 546, 078 33, 363 50, 709 Market, private, spring 276, 414 14, 988 57, 537		350	11			0.050.510	004 58
Oysters: 1 Market, public, spring 1, 166, 258 72, 725 1, 742, 057 58, 887 29, 978 Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 546, 078 33, 363 50, 709 Market, private, spring 276, 414 14, 988 57, 537	ShrimpClams, hard, public 1	1, 298, 610 316, 720		792, 733 11, 200		8, 852, 712 2, 240	334, 576 356
Market, public, fall 1, 039, 416 82, 423 683, 960 25, 914 21, 161 Market, private, spring 546, 078 33, 363 50, 709 Market, private, fall 276, 414 14, 988 57, 537	Oysters: 1	1 166 259	72 725	1, 742, 057	58, 887	29, 978	2,74
Market, private, spring 546,078 33,363 50,709 276,414 14,988 57,537	Market, public, fall			683, 960	25, 914	21, 161	1, 44
Market private fall 270, 414 14, 988 57, 537	Market, private, spring				33, 363	50, 709	3, 423
	Market, private, fall	421 920	53 092	270, 414	14, 958	01,001	0,000
Scallops, bay	Octorus		150	3, 500			5, 04

See footnotes at end of table,

Fisheries of the South Atlantic and Gulf States, 1930—Continued CATCH: By STATES—Continued

rate in the second	North C	arolina	South C	arolina	Geo	rgia
Species	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH, ETC.—continued						
Turtles:						
Loggerhead	70 500	\$2 25				
Snappers						
Total	5, 792, 920	366, 799	4, 087, 761	\$169, 522	9, 262, 037	\$355, 134
Grand total	168, 938, 705	1, 836, 481	5, 105, 597	252, 859	34, 872, 521	536, 294
	Flori	ida	Alaba	ama	Missis	ssippi
Species	Pounds	Value	Pounds	Value	Pounds	Value
FISH						0.00
Alewives	365, 732	\$5, 486				
Amberjack	21, 220 333, 086	667				
Black bass	333, 086	31, 615	00 054	2000	10 101	81 045
Bluefish Blue runner or hardtail	1, 153, 547 754, 245	65, 954 14, 000	20, 654 2, 205	\$926 63	19, 191	\$1, 047
BonitoBuffalofish	1, 190	24	100, 855	5, 503	14, 969	680
Cabio or crab eater	10, 307	437	2, 200	100	1, 837	98
Catfish and bullheads	4, 346, 231	192, 912	90, 904	6, 001	61, 422	2, 792
CeroCigarfish	9, 950 58, 412	480 1, 752				
Crappie	898, 976	34, 389				
Crevalle	90, 356	2, 459	2, 558	70	9, 957	272
Croaker Dolphin	33, 020 5, 000	735 500	7, 447	247	11, 275	397
Drum: Black Red or redfish	34, 624 1, 023, 884	893 34, 033	11, 693 104, 334	569 6, 107	20, 755 122, 030	972 6, 721
Eels	17, 143	856				
FloundersGroupers	119, 611 3, 064, 802	6, 252 92, 194	24, 180 177, 945	1, 960 5, 338	68, 989 71, 093	6, 001 2, 133
Grunts	21, 883	657	111,010	0,000	11,000	2, 100
Hickory shad	29, 616	888				
Hogfish	2, 000 26, 050	100 782	5, 021	151	1, 274	38
Kingfish or "king mackerel"	3, 685, 865	175,006			1, 211	
Kingfish or "king mackerel" King whiting or "kingfish" Menhaden	153, 133	5, 165 176, 446	5, 798	199	5, 604	183
Mojarro	40, 414, 170 81, 275	2, 508				
Mullet Muttonfish	22, 021, 806 225, 039	669, 468 15, 446	2, 205, 378	86, 007	801, 755	32, 120
Paddlefish or spoonbill cat	220, 000	10, 410	2, 251	125		
Permit	14, 882	449				
Pigfish Pinfish or sailors choice	62, 155 78, 050	1, 601 1, 524				
Pompano	573, 353	111, 716	5, 062	790	791	228
Porgies	55, 033	1, 643				
Porkfish Sea bass	48, 640	36 3, 206				
Shad	879, 732 2, 187, 500	129, 014				
SharksSheepshead	2, 187, 500 872, 133	3, 500 29, 768	17, 569	988	30, 517	1, 735
Snappers: Mangrove	121, 820	4, 847				
Red	5, 035, 702 368, 109	427, 140 11, 275	847, 918	67, 833	188, 725	15, 875
Spadefish	48, 561	1, 445	110	3		
Spanish mackerel	6, 140, 217 142, 556	294, 175 4, 012	5, 808 1, 561	338 66	1, 355	88
Squeteagues or "sea trout":						
Gray	599, 200	43, 355	6, 587	246	107, 167	3,720
SpottedSturgeon	2, 790, 566 8, 410	202, 541 1, 259	105, 981 1, 816	8, 268 297	125, 112 73	12, 344 22
Sunfish	434, 183	13, 043				
Tenpounder Tripletail	181, 361 4, 869	5, 213 168	5, 369	215	4,725	142
Turbot	900	54	275	13	2, 537	179
Yellowtail	89, 470	6, 671	2 761 470	100 400	1 671 150	07 707
Total	99, 740, 175	2, 829, 759	3, 761, 479	192, 423	1, 671, 153	87, 787

Fisheries of the South Atlantic and Gulf States, 1930—Continued CATCH: By STATES—Continued

Flori	ida	Alaba	ama	Missis	sippi
Pounds	Value	Pounds	Value	Pounds	Value
					William !
111 905	\$4 102	70 069	\$1 140	\$672 OC1	\$11.10
111, 290	\$4, 103				\$11, 12 1, 74
307, 550	26, 630				
		2 082 200	07 210	8 480 050	318, 87
	000, 000	2, 002, 200	01, 210	0, 400, 000	010, 01
687, 888	44, 540				
20, 000	200				
	F1 400	40.144	0.555	0.050.100	000.00
			17, 723	3, 959, 190	260, 06 60, 54
35, 545	3, 063	4, 080	480		
79, 298	6, 563	17, 064	1, 896		
406	83	2, 018	635		
01 550	1 070				
682	409				
3, 781					
91, 155	42, 955				
20, 674, 961	1, 815, 993	3, 351, 760	123, 045	14, 064, 377	652, 34
120, 415, 136	4, 645, 752	7, 113, 239	315, 468	15, 735, 530	740, 13
Louisiana Texas				Tot	al
Pounds	Value	Pounds	Value	Pounds	Value
				10, 206, 459	\$73, 80
••					66 47, 16
				2, 037, 604	109, 95
					14, 06
				19, 230	56
				115, 824	6, 18
				182, 560	4, 30
				470, 189	32, 40
89, 143	\$3, 213	97, 572	4, 380	5, 375, 344	236, 74 1, 16
				58, 412	1, 75
					34, 49
165	15	154	4		2, 82
59, 863	4, 205	31, 913	1,095	5, 269, 328	82, 46
				5, 000	50
166, 436	6, 451	1, 051, 968	33, 656	1, 286, 976	42, 59
334, 882	25, 959	872, 597	72, 446		148, 41
23.067	2.083	71, 297	7, 083		11, 64 43, 71
1, 320	120			1, 420	12
3 500	105	20.855	630		61 100, 84
3,000		20,000		48, 273	1, 68
					10, 11 17, 08
				2,000	10
6, 000	180	1, 430 3, 080 15, 730	56	44, 404	1, 43
		3, 080	120 572	3, 688, 945 583, 312	175, 12 23, 90
54 267	1 704		012	100,000	806, 17
54, 367	1,704	10, 750		199, 166, 660	000, 17
54, 367	1,704	7 001	929	199, 166, 660 81, 275 28, 020, 082	2, 50
54, 367 8, 972	1, 704	7, 921	232	81, 275 28, 020, 982 225, 039	2, 50 910, 33 15, 44
6, 000 54, 367 8, 972	311	7, 921	232	81, 275 28, 020, 982	2, 50 910, 33
	Pounds 111, 295 307, 550 288, 309 16, 848, 576 687, 888 23, 688 20, 000 790, 168 878, 242 35, 545 79, 298 21, 867 406 21, 550 11, 578 82, 918 370, 465 682 3, 781 91, 155 20, 674, 961 120, 415, 136 Louis Pounds Pounds 89, 143 165 59, 863 166, 436 334, 882 23, 067 1, 320 3, 500	111, 295 \$4, 103 307, 550 286, 309 26, 731 16, 848, 576 635, 506 687, 888 44, 540 23, 688 1, 890 20, 000 200 790, 168 51, 468 878, 242 81, 104 35, 545 3, 063 79, 298 6, 563 21, 867 2, 139 406 83 21, 550 1, 078 11, 578 235 82, 918 26, 556 370, 465 858, 699 682 3, 781 2, 041 91, 155 42, 955 20, 674, 961 1, 815, 993 120, 415, 136 4, 645, 752 Louisiana Pounds Value 89, 143 \$3, 213	Pounds Value Pounds 111, 295 \$4, 103 79, 968 307, 550 26, 630 28, 309 288, 309 26, 731 2, 982, 200 687, 888 44, 540 2, 982, 200 790, 168 51, 468 40, 144 878, 242 81, 104 225, 506 35, 545 3, 063 4, 080 79, 298 6, 563 17, 064 21, 550 1, 078 11, 578 21, 550 1, 078 11, 578 235 409 406 83 2, 018 21, 550 1, 078 11, 578 235 82, 918 26, 556 370, 465 858, 699 682 409 3, 781 2, 041 91, 155 42, 955 20, 674, 961 1, 815, 993 3, 351, 760 120, 415, 136 4, 645, 752 7, 113, 239 Louisiana Tex 89, 143 \$3, 213 97, 572	Pounds Value Pounds Value 111, 295 \$4, 103 79, 968 780 \$1, 142 195 307, 550 288, 309 26, 731 16, 848, 576 635, 506 2, 982, 200 97, 219 687, 888 44, 540 23, 688 1, 890 20, 000 200 200 200 790, 168 51, 468 878, 242 81, 104 35, 545 3, 063 4, 080 480 480 480 480 17, 723 480 79, 298 6, 563 21, 867 2, 139 406 83 2, 018 635 635 21, 550 1, 078 11, 578 235 235 20, 2018 635 82, 918 26, 556 370, 465 858, 699 682 409 3, 781 2, 041 91, 155 42, 955 20, 674, 961 1, 815, 993 3, 351, 760 123, 045 120, 415, 136 4, 645, 752 7, 113, 239 315, 468 Louisiana Texas Pounds Value Pounds Value 89, 143 \$3, 213 97, 572 4, 380 165 \$14 59, 863 4, 205 31, 913 1, 095 166, 436 6, 451 334, 882 25, 959 872, 597 72, 446 23, 067 1, 320 120 71, 297 7, 083 3, 500 105 20, 855 630	Pounds Value Pounds Value Pounds 111, 295 \$4, 103 79, 968 \$1, 142 \$673, 281 307, 550 26, 630 28, 309 26, 731 16, 848, 576 635, 506 2, 982, 200 97, 219 8, 489, 050 687, 888 44, 540 3688 1, 890 39, 200 200 39, 219 8, 489, 050 790, 168 51, 468 40, 144 3, 755 3, 959, 190 937, 056 37, 958 37, 55 3, 959, 190 937, 056 37, 958 37, 55 3, 959, 190 937, 056 37, 958 3, 751, 17, 064 1, 896 3, 959, 190 93, 755 3, 959, 190 937, 056 37, 056 37, 056 3, 959, 190 93, 75, 56 37, 755 3, 959, 190 93, 75, 17, 064 1, 896 3, 751 937, 056 3, 751 937, 056 3, 751 937, 056 3, 751 937, 056 3, 751 937, 056 3, 751 941 91, 155 42, 949 3, 781 94, 949 3, 781 94, 949 3, 781 94, 94

See footnotes at end of table.

Fisheries of the South Atlantic and Gulf States, 1930—Continued CATCH: BY STATES-Continued

must reliable to the	Louisi	ana	Tex	as	To	tal
Species	Pounds	Value	Pounds	Value	Pounds	Value
FISH—continued			SAX REPORT		of sulfation	-
Pinfish or sailors choice Pompano Porgies	1, 112	\$301	13, 010	\$2,963	111, 950 602, 028	\$2, 08 116, 92
Porgies					56, 133	1,68
Porkfish					600	3
Sea bass					441, 980	28, 85
Shad	300, 000	1,400			2, 541, 140	426, 11 5, 10
Sharks Sheepshead Skates	102, 124	5, 993	42, 251	1, 933	2, 497, 500 1, 077, 009 1, 000	41, 0
Snappers:					2,000	Land Maria
Mangrove					125, 020	5, 10
Red	76, 400	6, 112	929, 578	75, 385	7, 112, 927	595, 00
Snook or sergeantfish			39, 446	2, 816	407, 555	14, 09
Spadefish			550	20	49, 651	1, 48
Spanish mackerel	1,800	108	74, 289	4, 176	6, 354, 634	310, 66
Spot. Squeteagues or "sea trout". Gray	9, 704	290			2, 520, 861	43, 55
Gray Gray	323, 329	9, 809			3, 396, 410	141, 59
	387 101	45, 864	1, 043, 353	111, 320		443, 59
Squirrelfish	001, 101	20,002	1,010,000	111,020	500	2
Striped bass					457, 376	60, 65
Sturgeon					32, 363	6, 31
Suckers						72
Sunfish			**	********	442, 980	13, 22
Tenpounder					191, 455	5, 57
Fenpounder Tripletail Turbot	5, 301	455			13, 482	83
White perch					900	32, 99
Yellow perch					96, 200	6, 62
Yellowtail					89, 470	6, 67
Total	1, 954, 586	114, 678	4, 317, 159	318, 901	301, 218, 657	5, 277, 72
SHELLFISH, ETC.						
Crabs: 1			electron (1)			
Hard	4, 185, 995	63, 457	29, 046	1,063	6, 493, 085	105, 22
Soft	145, 732	58, 068		-,	530, 892	117, 07
Stone					307, 900	26, 64
Stone Sea crawfish or spiny lobster					288, 309	26, 73
Shrimp	38, 664, 487	1, 159, 626	10, 189, 318	377, 016	88, 117, 686	2, 995, 38
Clams: 2					1 010 040	00.07
Hard, public Hard, private					1, 018, 048 23, 688	86, 97 1, 89
Conchs					20, 000	20
Oysters: 3					20,000	20
Market public spring	271, 464	11, 751	515, 752	35, 888	8, 515, 011	497, 27
Market, public, fall	406, 668	24, 940	633, 819	43, 396	4, 825, 828	497, 27 337, 48
Market private spring	1, 797, 832	201, 657	3, 040	475	4, 825, 828 2, 437, 284 2, 805, 353	242, 46
Market, private, fall Scallops, bay	2, 370, 336	311, 698	4,704	735	2, 805, 353	338, 88
					453, 693	56, 06
Octopus	38, 750	12, 980			4, 500 66, 783	44
Terrapin, diamond-back Turtles:	38, 130	12, 980			00, 783	20, 86
0					21, 550	1, 07
Green_ Loggerhead_ Snappers	50, 050	1, 502				1, 50
Snappers		1, 502				2
Soft-shell					11, 578	23
Sponges:			-1 1			Frequency of
Grass Sheepswool					82, 918	26, 55
Sneepswool					370, 465	858, 69
Velvet					682	2 04
Wire Yellow					3, 781 91, 155	2, 04 42, 95
					01, 100	12, 30
Total	47, 931, 314	1, 845, 679	11, 375, 679	458, 573	116, 540, 809	5, 787, 09
Grand total	49, 885, 900	1, 960, 357	15, 692, 838	777, 474	417, 759, 466	11, 064, 81

¹ Statistics on hard crabs used in this table are based on 4 pounds per dozen in North Carolina, South Carolina, and Georgia; 6.45 pounds in Florida; 7 pounds in Alabama, Mississippi, and Texas; and 6.34 pounds in Louisiana. In reports for previous years, hard crabs in these States have been computed at

pounds in Louisiana. In reports for previous years, nard crabs in these states have been computed at 4 pounds per dozen.

² Statistics on hard clams used in this table are based on 8 pounds of meats per bushel in Florida, and 10 pounds in the other States. In reports for previous years, all hard clams in these States have been computed on the basis of a uniform yield of 8 pounds of meats to the bushel.

³ Statistics on market oysters used in this table are based on yields of 5.36 pounds of meats per bushel in North Carolina, 4.61 pounds in South Carolina, 4.41 pounds in Georgia, 3.34 pounds in Florida, 3.23 pounds in Alabama, 1.91 pounds in Mississippi, 3.99 pounds in Louisiana, and 4.65 pounds in Texas. In reports for previous years, all oysters have been computed on the basis of a uniform yield of 7 pounds of meats to the bushel. the bushel.

Fisheries of the South Atlantic and Gulf States, 1930—Continued PRODUCTION OF CERTAIN SHELLFISH IN NUMBERS AND BUSHELS

	North C	Carolina	South C	arolina	Geor	gia
Product	Quantity	Value	Quantity	Value	Quantity	Value
Crabs:		Para and		1 2 3 3		
Hardnumber_ Softdo	3, 478, 500 1, 135, 740	\$18, 995 57, 068	78, 000	\$780	684, 000	\$4, 560
Clams, hard, publicbushels_ Oysters:	31, 672	40, 680	1, 120	1, 400	224	350
Market, public, springdo Market, public, falldo Market, private, springdo	217, 505 193, 849	72, 725 82, 423	377, 870 148, 358 118, 450	58, 887 25, 914 33, 363	6, 800 4, 800 11, 502	2, 740 1, 440 3, 423
Market, private, falldo Scallops, baydo	71, 971	53, 923	59, 957	14, 988	13, 051	3, 005
	Flor	ida	Alaba	ama	Missis	sippi
Product	Quantity	Value	Quantity	Value	Quantity	Value
Crabs: Hard number Soft do Clams:	206, 988	\$4, 103	137, 088 2, 340	\$1, 142 195	1, 154, 196 17, 400	\$11, 129 1, 740
Hard, publicbushels_ Hard, privatedo	85, 986 2, 961	44, 540 1, 890				
Oysters: Market, public, springdo Market, public, falldo Market, private, springdo	236, 577 263, 096 10, 672	51, 468 81, 104 3, 063	12, 440 69, 881 1, 264	3, 755 17, 723 480	2, 070, 706 490, 092	
Market, private, falldo Scallops, baydo	23, 742 3, 644	6, 563 2, 139	5, 288	1, 896		
Makedy to a same of a second	Louis	iana	Tex	as	Tota	al
Product	Quantity	Value	Quantity	Value	Quantity	Value
Crabs: Hard number Soft do	7, 794, 780 437, 196	\$63, 457 58, 068	49, 785	\$1,063	13, 583, 337 1, 592, 676	\$105, 229 117, 071
Clams: Hard, publicbushels Hard, privatedo					119, 002 2, 961	86, 970 1, 890
Oysters: Market, public, springdo Market, public, falldo Market, private, springdo Market, private, falldo Scallops, baydo	68, 087 101, 998 450, 924 594, 516	11, 751 24, 940 201, 657 311, 698	110, 938 136, 334 654 1, 012	35, 888 43, 396 475 735	3, 100, 923 1, 408, 408 593, 466 697, 566 75, 615	497, 275 337, 486 242, 461 338, 885 56, 062

Industries related to the fisheries of the South Atlantic and Gulf States, 1930

Item	North Carolina	Caro		Georgia	4	Florida	Alabama
Transporting: Persons engaged— On vessels On boats	Number 54 5	Nun	sber 184 7	Numbe	7	Number 51 47	Number 12 18
Total	59	100 100	191			98	30
Vessels— Motor. Net tonnage. Sail. Net tonnage.	33 315		13 138 40 368			24 379 3 41	6 55
Total vessels	33 315	Desi	53 506			27 420	6 55
Boats Wholesale and manufacturing: Establishments. Persons engaged— Proprietors.	3 71 90		33 32 30		29 25	41 224 279	3 21 31
Salaried employees. Wage earners: A verage for season. A verage for year. Salaries and wages paid. Manufactured products '	1, 052 305 8233, 924 8836, 751	\$250	27 1, 327 491 9, 398 2, 538	1, 0 4 \$253, 4 \$629, 6	07 45	1,837 861 \$900, 298 \$1,995,751	16 492 218 8138, 240 8329, 990
Persons engaged— On vessels On boats Total Vessels— Motor Net tonnage Sail. Net tonnage Total vessels Total net tonnage Boats Tholesale and manufacturing: Establishments Persons engaged— Proprietors Salaried employees Wage earners: A verage for year Salaries and wages paid Manufactured products Ishermen's manufactured products: Persons engaged Products Item Transporting: Persons engaged— On vessels On boats Total Vessels— Motor Net tonnage Sail Net tonnage Total vessels Total net tonnage Total ressels Total net tonnage Boats Wholesale and manufacturing: Establishments Persons engaged— Proprietors	\$130, 219	52	37 8, 937			\$46, 277	\$7,699
Item	Missis	sippi	Lo	uisiana		Texas	Total
Transporting: Persons engaged— On vessels. On boats.			N	umber 133 246	2	Number 3	Number 437 349
Total		26		379		3	786
Motor. Net tonnage				65 525		1 6	142 1, 418 43
Net tonnage			****	65 525		1 6	185 1,827
Boats		13		128			221
Persons engaged— Proprietors		53 72 37		102 133 100		55 66 35	587 726 374
Wage earners: A verage for season A verage for year Salaries and wages paid Manufactured products Fishermen's manufactured products:	84	2, 546 1, 056 75, 692 41, 119		3, 821 1, 783 \$938, 868 , 618, 333		1, 370 727 \$264, 176 \$886, 255	13, 535 5, 848 \$3, 464, 041 \$12, 320, 405
Persons engaged		61 \$9, 658	*****			210 \$42, 375	1, 011 \$265, 165

¹ These production figures are not comparable with those shown in previous bulletins since packaged fresh and frozen fishery products are now included.

Note.—Of the total number of persons employed on transporting craft, 408 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 904 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

NORTH CAROLINA

Fisheries of North Carolina, 1930

OPERATING UNITS: BY GEAR

The best wash not		1	urse	seir	nes	Haul	seines	Gen.		Gill	nets	
Item			len- den	Ot	her	Com- mon	Long	Anch	or	Drift	Run- around	Stake
Fishermen: On vessels On boats and shore—		Nu	mber 734	Nu	mber	Number 18	Number 138		ber 1 81	Vumber	Numbe	Number
Regular			56 8		28	1,092 500	308 19		310 93	189 20	193 117	324 97
Total			798		28	1,610	465		184	209	310	421
Vessels: Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons.			8 5 3			6	34 2		15 1			
31 to 40 tons			10 6 6 3 2 1									
Total Net tonnage		1,	44 634			6 37	36 249		16 14			
Boats: MotorOther Accessory boats			8		4 8	241 540 2	93 55 15		76 40	81 75	84 137	219 123
pparatus: Number Length, yards Square yards		13,	52 335		700	580 80, 708	87 84, 650	2, 5		170 72, 203	426 198, 979	11, 229 741, 300
Sole Ix Ix	Mag	I	ines								Otter	trawls
Item	Hand	Troll	Tr wi bait sno	th s or	Trot with hook	1	d Weirs	Wheels	Fylnet			Shrimp
Fishermen: On yessels	Num- ber 15	Num- ber	Nun	nber	Nun	Num ber	Num- ber	Number			Num- ber 12	Number 10
On boats and shore— Regular Casual	4 40	15	7	104 72	8			6 10	4			92 2
Total	59	15		176	9	706	1	16	5	3 244	12	104
Vessels: Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons	4										3 1	5
Total Net tonnage	4 29										- 4 70	5 38
Boats: MotorOther ccessory boats	12 10 2	15		99 60	9	285 248	1	6 20	3: 2:			47
Number Yards at mouth Hooks, baits, or snoods_	98	15	122, 8	177	14 840		4	50	84	244	- ⁴ 74	52 908

OPERATING UNITS: BY GEAR-Continued

		Tur-			I	redge	S			-	Total,
Item	Box	tle traps	Pots, eel	Spears	Crab	Oys- ter	Scal- lop	Tongs	Rakes	By hand	sive of dupli- cation
Fishermen: On yessels	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber 220	Num- ber	Num- ber 3	Num- ber	Num- ber	Numbe 1, 15
On boats and shore— Regular Casual	10	1	34 20	6 48	40	65 41	155 29	216 261	271 327	100 95	2, 693 1, 353
Total	10	1	54	54	40	326	184	480	598	195	5, 20
Vessels: Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons 51 to 60 tons 61 to 70 tons 71 to 80 tons 81 to 90 tons											6'1
Total Net tonnage						8 68					2, 14
Sail— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons.						49 14 3		1			50
Total Net tonnage						66 624		1 7			63
Total vessels Total net tonnage_						74 692		1 7			17 2, 77
Boats: MotorOtherAccessory boats	4		16 35	54	40	39 26	134 10	192 201	58 441	80	1, 37 1, 58 12
Apparatus: NumberYards at mouth	10	30	1, 502	54	80 107	243 241	328 318	480	643		

CATCH: BY GEAR

		10	1 3910	17/11/11	1 11		2.000	The second	
Constant	1	Purse sein	nes			Haul seines			
Species	Menhae	den	Other		Comr	non	Long		
(1-1-		Value	Pounds			Value	Pounds	Value	
AlewivesBlack bass					1, 998, 727		164, 900 32, 770	\$1, 14 4, 91	
Bluefish					56, 143 198, 650				
Bonito					7, 850		120, 200	1,00	
Bowfin					4, 929	123		5	
Butternsh					2, 600				
Carp Catfish and bullheads					182, 225			9, 08	
Cod.							59, 322	2, 30	
Croaker	İ				733, 000		2, 024, 760	32, 22	
Drum, red or redfish					21,800	472	91, 050	1, 32	
Eels					100		1,610	12	
FloundersGizzard shad					35, 450 5, 900			70 12	
Harvestfish					15, 750			5, 42	
								28	
King whiting or "kingfish"					70, 050		13,800	48	
Menhaden	133, 656, 440						394, 800	1, 15	
Mullet		2, 288			923, 240			3, 49	
Pigfish					7,500	151	71, 700	1, 19	

CATCH: BY GEAR-Continued

Chaoles	and .	Purse sei	nes			Haul	seines	
Species	Menha	den	Oth	ner	Comr	non	Lon	g
Pike or pickerel	Pounds		Pounds	Value	Pounds 4, 330	Value \$472	1.190	Value \$145
					900	128	30, 000	450
orgies					1,000	30	2, 200	22
ompano orgies ea bass had heepshead padefish panish mackerel pot oueteagues or "sea trout":					47, 200	2, 760		
had					48, 411	9,086	10, 450	2, 08
neepsnead					2, 300	112	3, 590 380	17
panish mackerel					9, 150	608	1,815	1 14
pot					840, 250	13, 234		11, 56
queteagues or "sea trout": Gray								
Gray					399, 450	15, 968	419, 937	16, 37
Spottedtriped bass			10 000	\$1.500	251, 000 151, 486	21, 535 11, 493	229, 409 52, 040	17, 30 9, 47
Valley bass Vanfish Vellow perch			10,000	φ1, 000	6, 275	131	1.722	3, 47
Vhite perch					178, 962	13,051	98, 246	6, 11
ellow perch					23, 600	1, 326	11,400	71
Crabs: Soft			14.		207, 796	33, 363		
Stone					350			
Shrimp					94, 250	3, 497		
Stone Strimp Furtles, loggerhead					70	2		
Total					6, 658, 154	225, 124	5, 133, 932	134, 77
	Anc	hor	Dr	ift	Runa	round	Stal	ce .
	Co.01 . 1							
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Rhafish	Pounds 451, 000	Value \$3,880	Pounds	Value \$10	Pounds 4,000	Value	Pounds	Value
Rhafish	Pounds 451, 000	Value \$3,880 3,360	Pounds 21, 000 71, 000 10, 000	Value \$10 3, 24	Pounds 4,000	Value	Pounds	Value
Rhafish	Pounds 451, 000	Value \$3,880 3,360 33 69	Pounds 21, 000 71, 000 10, 000	Value \$10 3, 24 20	Pounds 5 4, 000 0 56, 350	Value \$23 3, 257	Pounds 195, 200 246, 150	Value \$1, 179 11, 24
Bluefish Bonito Butterfish Darp	Pounds 451, 000 79, 000 1, 000 2, 100 3, 750	Value \$3,880 3,360 33 69 295	Pounds 21, 000 71, 000 10, 000	Value \$10 3, 24 20	Pounds 5 4,000 0 56,350	Value \$23 3, 257	Pounds 195, 200 246, 150	Value \$1, 179 11, 24
Bluefish Bonito Butterfish Darp Datfish and bullheads.	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800	Value \$3,880 3,360 33 69 295 532 15	Pounds 21, 000 71, 000 10, 000	Value \$10 3, 24 20	Pounds 5 4, 000 0 56, 350	Value \$23 3, 257	Pounds 195, 200 246, 150 1, 500 600	Value \$1, 179 11, 24
Bluefish Bonito Butterfish Darp Datfish and bullheads.	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800	Value \$3,880 3,360 33 69 295 532 10,260	Pounds 21, 000 71, 000 10, 000	Value \$10 3, 24 20	Pounds 5 4, 000 0 56, 350	Value \$23 3, 257	Pounds 195, 200 246, 150 1, 500 600 156, 950	Value \$1, 179 11, 24
Bluefish Bonito Butterfish Darp Datfish and bullheads.	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800	Value \$3,880 3,360 33 69 295 532 10,260 171	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000	Value \$10 3, 24 20	Pounds 5 4, 000 0 56, 350	Value \$23 3, 257	Pounds 195, 200 246, 150 1, 500 600 156, 950	Value \$1, 179 11, 24
Bluefish Bonito Sutterfish Earp Sathish and bullheads Od Croaker Drum, red or redfish	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 300	Value \$3,880 3,360 33 69 295 532 15 10,260 171 21	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000	Value \$10 3, 24 20	Pounds 5 4,000 0 56,350 0 47,000 900	Value \$23 3, 257	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100	Value \$1, 17 11, 24 2 3 1, 96
Bluefish Bonito Butterfish Barp Catfish and bullheads Od Proaker Drum, red or redfish Eels Flounders Jizzard shad	Pounds 451, 000 79, 000 1, 000 2, 100 3, 750 10, 800 6, 220, 000 6, 200 3, 100 10, 000 11, 0, 000	Value \$3,880 3,360 33 69 295 532 10,260 171 21 165 143	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000	Value \$10 3, 24 20 87 4	Pounds 5 4,000 56,350 0 47,000 900 0 6,000	Value \$23 3, 257	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100	Value \$1, 179 11, 24
Bluefish Bonito Butterfish Darp Datfish and bullheads Od Droaker Drum, red or redfish Eels Flounders Bizzard shad Broyes	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 3, 100 10, 100 11, 000	Value \$3,880 3,360 295 532 15 10,260 171 21 165 143 30	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000	Value \$10 3, 24 20 87 4	Pounds 5 4,000 56,350 0 47,000 900 0 6,000	Value \$23 3, 257	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350	Value \$1, 179 11, 24
Bluefish Bonito Butterfish Darp Datfish and bullheads. Od. Droaker Drum, red or redfish Eels Flounders Jizzard shad Harvestfish	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 3, 100 10, 100 11, 000	Value \$3,880 3,360 33 69 295 532 10,260 171 21 165 143 30 30 2,505	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000	Value \$10 3, 24 20	Pounds 4,000 56,350 0 47,000 0 900 0 6,000	Value \$23 3, 257 	Pounds 195, 200 246, 150 	Value \$1, 17' 11, 24' 2, 3' 1,96' 5' 16'
Bluefish Bonito Butterfish Darp Datfish and bullheads Od Droaker Drum, red or redfish Eels Flounders Bizzard shad Broyes	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 3, 100 10, 100 11, 000	Value \$3,880 3,360 33 69 2955 10,260 171 211 165 143 30 30 2,505 488	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000 355, 000 355, 000	Value \$10 3, 24 20 87 4	Pounds 5, 4,000 56,350 0 47,000 0 6,000 0 6,000 5 536,200	Value \$23 3, 257 810 50 293	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950	Value \$1, 17: 11, 24: 2: 30 1, 96: 5: 16: 2, 799: 24: 13, 79:
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Bod Broaker Broum, red or redfish Bels Bels Bluer	Pounds 451, 000 79, 000 1, 000 1, 000 1, 000 10, 800 622, 000 11, 000 11, 000 11, 000 138, 900 130, 500 8, 600 4, 700	Value \$3,880 3,360 33 69 2255 10,260 171 211 165 143 30 30 5,820 448	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000 1, 000 355, 000	Value \$10 3, 24 20 87 4 12, 52	Pounds 5 4,000 0 56,350 0	Value \$23 3, 257 810 50 293 22, 138	Pounds 195, 200 246, 150	Value \$1, 17: 11, 24: 2: 3: 1, 96: 5: 2, 79: 2: 13, 79: 5:
Bluefish Bonito Butterfish Barp Barp Battish and bullheads Cod Broaker Brum, red or redfish Bels Bels Bizzard shad Barvestfish Bickory shad King whiting or "kingfish" Mullet Birther	Pounds 451, 000 79, 000 1, 000 1, 000 1, 000 10, 800 622, 000 11, 000 11, 000 11, 000 138, 900 130, 500 8, 600 4, 700	Value \$3,880 3,360 33 69 2255 10,260 171 211 165 143 30 30 5,820 448	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000 355, 000 355, 000	Value \$10 3, 24 20 87 4 12, 52	Pounds 5 4,000 0 56,350 0 900 0 6,000 0 5 5536,200 0 0 100 0 100 0 100	Value \$23 3, 257 810 50 293 22, 138 3 10	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950 2, 800 100	Value \$1, 17: 11, 24: 2: 3: 1, 96: 5: 2, 79: 2: 13, 79: 5:
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Cod Proaker Drum, red or redfish Bels Flounders Bizzard shad Harvestfish Hickory shad King whiting or "kingfish" Digfish Pompano	Pounds 451, 000 79, 000 1, 000 2, 100 3, 750 10, 800 622, 000 6, 200 3, 100 1, 000 1, 000 1, 000 1, 38, 900 130, 500 4, 700	Value \$3,880 3,360 338 699 2955 151 10,260 171 211 1655 133 30 30 488 92	Pounds 21, 000 71, 000 10, 000 1, 000 1, 000 355, 000 100	Value \$10 3, 24 20 87 4 12, 52	Pounds 5 4,000 0 56,350 0 0 47,000 0 6,000 5 536,200 0 100 0 10,000	Value \$23 3, 257 810 50 293 22, 138	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 706 195, 950 2, 800 100	Value \$1, 17' 11, 24' 22' 36' 56' 16' 2, 799' 26' 13, 795' 55' 11'
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Cod Proaker Drum, red or redfish Bels Flounders Bizzard shad Harvestfish Hickory shad King whiting or "kingfish" Digfish Pompano	Pounds 451, 000 79, 000 1, 000 2, 100 3, 750 10, 800 622, 000 6, 200 3, 100 1, 000 1, 000 1, 000 1, 38, 900 130, 500 4, 700	Value \$3,880 3,360 699 2955 150 10,260 177 121 1655 130 30 30 5,5820 4488 92	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000 355, 000 100 352, 200 350 350 350 350 350 350 350 350 350 3	Value \$10 3, 24 20 87 4 12, 52 1 10, 28	Pounds 5 4,000 0 56,350 0 0	Value \$23 3, 257 810 500 293 22, 138 3 10 500 770 333	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950 2, 800 100 250, 450	Value \$1, 17' 11, 24' 22' 36' 56' 56' 56' 27,799' 22' 13, 794' 55' 15' 45, 115'
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Cod Proaker Drum, red or redfish Bels Flounders Bizzard shad Harvestfish Hickory shad King whiting or "kingfish" Digfish Pompano	Pounds 451, 000 79, 000 1, 000 2, 100 3, 750 10, 800 622, 000 6, 200 3, 100 1, 000 1, 000 1, 000 1, 38, 900 130, 500 4, 700	Value \$3,880 3,360 336 699 2955 15,10 171 211 1656 130 2,505 5,820 448 92 53,687 560	Pounds 21, 000 71, 000 10, 000 1, 000	Value \$10 3, 24 20 87 4 4 12, 52 1 10, 28 1 2, 94	Pounds 5 4,000 0 55,350 0 0 47,000 0 900 0 6,000 0 5556,200 0 10,000 0 4,800 0 4,800 0 5,000	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000	Pounds 195, 200 246, 150	Value \$1, 17' 11, 24' 22' 3' 3' 1, 96' 5' 16' 2, 799' 2 13, 799' 11' 45, 11' 22'
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Dod Bod Bod Bod Bod Bod Bod Bod Bod Bod B	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 11, 000 11, 000 38, 900 130, 500 8, 600 4, 700	Value \$3,880 3,360 336 699 2955 15,10 171 211 1656 130 2,505 5,820 448 92 53,687 560	Pounds 21, 000 71, 000 10, 000 1, 000	Value \$10 3, 24 20 87 4 4 12, 52 1 10, 28 1 2, 94	Pounds 5 4,000 0 55,350 0 0 47,000 0 900 0 6,000 0 5556,200 0 10,000 0 4,800 0 4,800 0 5,000	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000	Pounds 195, 200 246, 150	Value \$1, 17, 11, 24 2, 33 1, 96 5 166 2, 799 2, 13, 799 11 45, 11
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Bod Bod Bod Bod Bod Bod Bod Bod Bod Bod	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 11, 000 11, 000 38, 900 130, 500 8, 600 4, 700	Value \$3,880 3,360 699 2955 150 10,260 171 21 1655 0 30 0 30 0 2,505 5,820 4488 92 53,687 560 3,128	Pounds 21, 000 71, 000 10, 000 2, 000 1, 000 10, 000 10, 000 100 100 100	87 4 10, 28 110, 28 12, 94 1, 56 88	Pounds 4,000 0 56,350 0 900 0 154,000 0 154,000 0 154,000 0 154,000 0 154,000 0 154,000 0 18,200	Value \$23 3, 257 810 50 293 10 500 770 33 5, 000 2, 760	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 706 195, 950 2, 800 100 250, 450 3, 500 110, 050 117, 190	Value \$1, 177 11, 24 2: 33 1, 966 55 2, 799 2: 13, 799 55; 11; 45, 11; 22; 2, 056 4, 77;
Jod. Joaker. Drum, red or redfish Eels Flounders Jizzard shad Harvestfish Hickory shad King whiting or "kingfish" Mullet Pigfish Pompano Jea bass Jhad Jpanish mackerel Jpot Jordan Journal Jo	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 1, 000 1, 000 130, 500 130, 500 130, 500 7, 000 199, 500 198, 600 20, 000	Value \$3,880 3,360 9,360 9,295 15,50 10,260 171 11,26 165 143 30 30 2,505 5,820 448 92 55,687 566 3,128 8,005	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000 1, 000 1, 000 52, 200 355, 000 52, 200 85, 500 22, 000	87 4 10, 28 110, 28 110, 28 12, 94 1, 56 88	Pounds 4,000 0 56,350 0 900 1 154,000 0 18,200 0 18,200 0 1 18,200	Value \$23 3, 257 810 50 293 10 500 770 33 5, 000 2, 760	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950 2, 800 100 250, 450 3, 500 110, 050 117, 190 105, 450	Value \$1, 17' 11, 24' 22' 36' 56' 16' 2, 799' 26' 13, 795' 55' 11'
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Bod Bod Bod Bod Bod Bod Bod Bod Bod Bod	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 1, 000 1, 000 130, 500 130, 500 130, 500 7, 000 199, 500 198, 600 20, 000	Value \$3,880 3,360 338 699 2955 15 10,260 177 21 1655 2,505 5,820 448 92 53,687 560 3,128	Pounds 21, 000 10, 000 10, 000 1, 000 1, 000 10, 000 10, 000 100 1	Value \$10 3, 24 20 87 4 12, 52 1 10, 28 1, 56 88 90	Pounds 5 4,000 0 56,350 0 0	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000 2, 760 659 4, 671	Pounds 195, 200 246, 150 1, 500, 600 156, 950 4, 100 4, 350 73, 700 700 195, 950 2, 800 100 250, 450 117, 190 105, 450	Value \$1, 177 11, 24 2: 33 1, 966 55 2, 799 2: 13, 799 5; 5; 145, 118 22; 2, 056 4, 77; 91, 21;
Bluefish Bonito Bonito Butterfish Carp Catfish and bullheads Cod. Croaker Drum, red or redfish Eels Floring shad Harvestfish Hickory shad King whiting or "kingfish" Mullet Pigfish Pompano Sea bass Shad Sheepshead Spanish mackerel Spot Queteagues or "sea trout": Gray Spotted Squirrefish Striped bass	Pounds 451,000 79,000 1,000 2,100 3,756 10,800 622,000 6,200 1,000 1,000 130,500 310,500 7,000 199,500 198,000 20,000	Value \$3,880 3,360 338 699 2955 15 10,260 177 21 1655 2,505 5,820 448 92 53,687 560 3,128	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000 1, 000 1, 000 52, 200 355, 300 30, 500 85, 500 22, 000 11, 000	Value \$10 3, 24 20 	Pounds 4,000 0 56,350 0 900 0 6,000 100 0 10,000 0 154,000 0 154,000 0 154,000 0 18,200 0 50,700 0 1,000 0 18,200 0 154,000 0 18,200 0 154,000 0 1	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000 2, 760 659 4, 671	Pounds 195, 200 246, 150 1, 500, 600 156, 950 4, 100 4, 350 73, 700 700 195, 950 2, 800 100 250, 450 117, 190 105, 450	Value \$1, 177 11, 24 2: 33 1, 966 55 2, 799 22; 13, 799 55; 11; 45, 11; 22; 2, 056 4, 77;
Bluefish Bonito Boutterfish Barp Barp Batterfish Bonito Boutterfish Barp Batterfish Bod Bod Bod Bod Bod Bod Bod Bod Bod Bod	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 11, 000 130, 500 130, 500 7, 000 199, 500 198, 000 20, 000	Value \$3,880 3,360 3,360 9 295 151 10,200 117 111 1165 1143 30 30 55,820 448 92 55,687 3,128 0,8,005 2,100 113,660	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000 1, 000 1, 000 1, 000 52, 200 355, 500 22, 000 11, 000 1, 500	Value \$10 3, 24 20 	Pounds 5 4,000 0 6,000 0 70,000 0 10,000 0 10,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000 2, 760 659 4, 671	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950 2, 800 100 250, 450 117, 190 105, 450 133, 350	Value \$1, 177 11, 24 2, 33 1, 966 55 2, 799 22 13, 799 55 11 45, 11 22; 2, 056 4, 77; 91, 21; 4, 673
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads God Proaker Drum, red or redfish Bels Flounders Bizzard shad Harvestfish Hickory shad King whiting or "kingfish" Mullet Pigfish Pompano Bea bass Bhad Bheepshead Bpanish mackerel Bpot Gueteagues or "sea trout": Gray Spotted Squirrelfish Sturpeon	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 11, 000 130, 500 130, 500 7, 000 199, 500 198, 000 20, 000	Value \$3,880 3,360 336 9 295532 15 10,226 177 21 1651 143 30 30 2,5050 5,820 3,128 3,8,005 2,100 13,660 227 27,12	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000 1, 000 355, 000 100 52, 200 350 30, 500 85, 500 22, 000 11, 000 1, 500	Value \$10 3, 24 20	Pounds 5 4,000 0 6,000 0 70,000 0 10,000 0 10,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000 2, 760 659 4, 671	Pounds 195, 200 246, 150 1, 500, 600 156, 950 4, 100 4, 350 73, 700 700 195, 950 2, 800 100 250, 450 117, 190 105, 450	Value \$1, 177 11, 24 2, 33 1, 966 55 2, 799 22 13, 799 55 11 45, 11 22; 2, 056 4, 77; 91, 21; 4, 673
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads Cod Croaker Drum, red or redfish Bels Bels Flounders Bizzard shad Harvestfish Hickory shad King whiting or "kingfish" Wullet Pigfish Pompano Sea bass Shad Bels Beepshead Bels Boot Gray Spotted Squirrelfish Striped bass Sturgeon	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 11, 000 130, 500 130, 500 7, 000 199, 500 198, 000 20, 000	Value \$3,880 3,360 336 9 295532 15 10,226 177 21 1651 143 30 30 2,5050 5,820 3,128 3,8,005 2,100 13,660 227 27,12	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000 1, 000 355, 000 100 52, 200 350 30, 500 85, 500 22, 000 11, 000 1, 500	Value \$10 3, 24 20	Pounds 5 4,000 0 6,000 0 70,000 0 10,000 0 10,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000	Value \$23 3, 257 810 50 293 22, 138 3 10 500 770 33 5, 000 2, 760 659 4, 671	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950 2, 800 100 250, 450 117, 190 105, 450 133, 350	Value \$1, 177 11, 24 2, 33 1, 966 55 166 2, 799 5, 55 145, 11. 22, 0, 56 4, 77; 91, 21; 4, 673
Bluefish Bonito Butterfish Barp Barp Batfish and bullheads God Proaker Drum, red or redfish Bels Flounders Bizzard shad Harvestfish Hickory shad King whiting or "kingfish" Mullet Pigfish Pompano Bea bass Bhad Bheepshead Bpanish mackerel Bpot Gueteagues or "sea trout": Gray Spotted Squirrelfish Sturpeon	Pounds 451, 000 79, 000 1, 000 2, 100 3, 756 10, 800 622, 000 6, 200 11, 000 130, 500 130, 500 7, 000 199, 500 198, 000 20, 000	Value \$3,880 3,360 3,360 29,593 15,10 10,260 115,165 143 30 0,2,505 5,820 5,820 5,820 13,660 3,128 8,005 2,100 13,660 13,660 22,712 340	Pounds 21, 000 71, 000 10, 000 71, 000 2, 000 1, 000 1, 000 52, 200 355, 30, 500 85, 500 22, 000 11, 000 1, 500	Value \$10 3, 24 20 20 20 20 20 20 20	Pounds 5 4,000 900 10,000 154,800 150,000 150,000 0 150,000 0 1,000 0	Value \$23 3, 257 \$10 50 293 22, 138 3 10 500 770 770 7, 659 4, 671 120	Pounds 195, 200 246, 150 1, 500 600 156, 950 4, 100 4, 350 73, 700 195, 950 2, 800 100 250, 450 117, 190 105, 450 133, 350	Value \$1, 17 11, 24 2 3 3 1, 96 5 5 16 2, 79 5 1 5 1 45, 11 22 2, 05 5 4, 77 91, 21 4, 67

CATCH: BY GEAR-Continued

					Lines			
Species	Har	nd	Tr	oll	Trot, with	balts or	Trot, with hook	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish	7,750 1,000	\$745						
Catfish and bullheads	1,000	100					23, 100	\$693
Cero	2,000	120 50		\$560				
Crappie Drum, red or redfish	1,000	20				******		
Eels	500	25				********		********
Flounders	200	8						
Grunts	18,000	360						
Pigfish	500	10						
Pinfish	500	4,710						*****
Sea bass	116, 000 250	12				******	******	******
Snapper, red Spanish mackerel	4,750	195						
Spanish mackerel			15,000	1, 200				
Squirreinsh	50	1				-1-1-2-1		
Crabs, hard					1, 146, 500	\$18,745		*******
Octopus	1,000	150						
Total	153, 750	6,514	22,000	1,760	1, 146, 500	18,745	23, 100	653
Species	Poun	d nets	V	Veirs	W	reels	Fyke	nets
		-	-	1				
	Pounds		Pound	Vatue	Pounds	Value	Pounds	Value
Alewives	6, 799, 50	0 \$50, 10	77		135, 000	\$825		
Black bass			15				17, 500	2, 625
Bluefish	11, 53 1, 30	0 00	M5				10, 700	357
Bowfin	146, 47	3, 2					10, 100	304
Carp	51, 35	0 2, 2	3 5,00	0 525	50		102, 500	7,917
Catfish and bullheads	51, 35 145, 70	0 7,30	15				128, 200	6, 170
Cod	- 30	0)	2					******
Crappie	40		50					******
Croaker	1, 113, 60		13					
Eels	4,00		12			4.0.000.000	3, 250	300
Flounders	110, 40		9				13, 300	
	10	0	6					
Garfish Gizzard shad	10, 50	0 14	13				5,000	91
Harvestfish	156, 05					******	500	30
Hickory shad King whiting or "kingfish"	157, 15						300	30
Mullet	9, 05		6			******	2, 100	168
Pigfish	6,70	0 5	4	1				
Pike or pickerel	1.00	0 13	50				3, 450	370
Pinfish	1, 40	0 :	12					
Pompano	5, 20	0 51	5					
Sea bass	493, 65	0 88, 60					1, 200	240
Sheepshead.	4, 67	5 2		*		*******	1, 200	240
Spadefish	3	0	1					
Spanish mackerel	14, 20	0 1, 10	00					
Spot	270, 49	0 3, 93	3					
Squeteagues or "sea trout": Gray	1, 118, 35	0 34, 61	5					
Spotted	24, 95	0 2, 37	1					
Striped bass	106, 35	0 15, 56	10				16, 350	3, 643
Sturgeon	1, 10	0 24	10				******	
Suckers	8, 30 50	0 40)]				1, 150	33
Sunfish Tripletail	50		9				300	6
White perch	89, 00					******	47, 200	2, 793
Yellow perch	8,70	0 62	36		6,000	900	42, 100	2, 486
Turtle, snapper	20	0 1	0					
	-	-	-				12.1	
Total	10, 906, 77	5 251, 66	18 5,00	0 25	60 141,000	1, 725	454, 200	29, 149

CATCH: BY GEAR-Continued

		CATOL	1; BY GI	SAR-	Соп	nued				
Species	Pen Pen		s, com-	2160	1.1	Otter	trawls	1	Box	traps
		m	on		Fish	ı	Shri	mp	Doz	raps rainada
Alewives		Pounds 20, 000	Value \$100	Poun		Value	Pounds	Value	Pounds	Vaiue
Bluefish					200	\$256 10	50, 000	\$3, 500		
Croaker Flounders King whiting or ''kingfish''_ Shad		500	100	340, 0 80, 0 15, 2	200	5, 850 3, 800 608	54, 200 25, 100	2, 690 802		
Squeteagues or "sea trout":				5, 0		100				
GraySpottedStriped bassSuckers		1, 000	150	9, 7		435	30, 300 1, 800	909		\$25 7
Yellow perch Crabs, soft Shrimp		99, 974	15, 032				1, 204, 360	37, 255	1,000	22
Total		121, 474	15, 382	452, 4	100	11, 059	1, 365, 760			54
	Tt1-		Dete		18	2		Dree	dges	
Species	Turtle	traps	Pots, e	eı		Spears		Crab	0;	yster
EelsFlounders	Pound	8 Value	Pounds 132, 500	\$9,977		inds Va	lue Poun	ds Value	Pounds	Value
Crabs, soft Oysters:						, 000 p1,	60, 0	00 \$7, 200		
Market, public, spring Market, public, fall Turtles, snapper	30	ō \$15								8 \$49, 65 9 60, 41
Total	30	0 15	132, 500	9, 977	28	, 000 1,	620 60, 0	00 7, 200	1, 516, 98	7 110, 06
Species	E 10	Dr	edges— callop		То	ngs	Ra	kes	Ву	hand
Crabs: Hard	2,894	Poun 13, 0	00 \$2	50	unds	Value	Pounds	Value	Pounds	Value
SoftClams, hard, public Oysters:		10, 8		35	5, 200	1013	5 243, 120	\$31, 480		\$5, 42
Market, public, spring Market, public, fall Scallops, bay		256, 6		30	1, 508 1, 366	22, 67 18, 59	175, 170	21, 893	5, 362 64, 451	3, 41
Terrapiń, diamond-back		280, 4			, 074	45, 04	0 418, 290	53, 373	108, 303	9, 28
				TTM C	D					
	OP	ERATI	ING UN	ITS:	BY	COUNTI	ES	I A		
Item		Beau fort			uns- ick	Cam- den	Car- teret	Cho- wan	Craven	Curri- tuck
Fishermen: On vessels		Numb 5		er Nu	mber 179	Numbe	Number 788	Number 3	Number 3	Numbe
On boats and shore— Regular————————————————————————————————————		15 9			81 51	8	1, 102 248	169	11 70	27
Total		30	0 4	0	311	8	2, 138	172	84	27

OPERATING UNITS: By countres-Continued

Item	Beau- fort	Bertie	Bruns- wick	Cam- den	Car- teret	Cho- wan	Craven	Curri-
essels:								
Motor-	Number	Number	Number	Number	Number	Number	Number	Numbe
5 to 10 tons			4		52		1	
11 to 20 tons	****	******	*******	******	7			
		-		******	3 6			CITALIN
31 to 40 tons		******	2	******	4	*******	PERSON	
41 to 50 tons	*****		- 1		5	*******		
61 to 70 tons					2			
71 to 80 tons		*******			2		Contract of	
81 to 90 tons			1					
				-	-	-	-	-
Total			477		1,502	21	5	******
	-	-	-	-	-	-	-	-
Sail-					- 12			
5 to 10 tons	18			*****	13			*****
11 to 20 tons	2 2	-1-4-6	*****					
41 10 00 10000		****						1,572,000
Total	22				19			
Net tonnage	213				185			
77 - 1 1 -	TO STATE OF THE PARTY.	-	-	-	100	-	1	-
Total vessels	22 213		13 477		1,687	21		*****
osts:	-	-	-		77.7	-	The second second	-
Motor	93	16	26	. 5	460	45	45	1
Other	91	16	4.5		495	45	31	1
ecessory boats			18		97		2	
pparatus:								
Purse seines—					411			
Menhaden			9	****	43		******	
Length, yards			2, 335		11,000			
Common	13		9		305		4	1
Length, yards	3,950		1,500		21, 945		900	18, 8
Long		1	14 550		62		1	
Length, yards		1,600			48, 900		900	10, 2
Gill nets—								1
Anchor	*****			90	102	200	14	_ 1
Square yards				21, 300	92, 276	150,000	4, 800	58, 0
DriftSquare yards		1.000	0.000.000		75, 283			*****
Runaround	7		42		108		4	
Square yards	2, 820		16, 212		83, 214		2,000	
Stake	712	3			1,696		378	1
Square yards	47, 100	400		******	110, 160		14, 970	9,9
Lines—					- 00		1.00	
Hand					28 56			
Troll				******	15			-
Hooks					15	******		
Trot, with baits or snoods	86							
Baits or snoods	63, 600			******				
Trot, with hooks			2		*****			
Hooks			240					
Pound nets	192	80	******		142	507	43	****
Fyke nets		. 5		75			30	4
Dip nets, common				10	231			
Otter trawls—				1	-			
Fish	******				*******	1		*****
Yards at mouth						20		
Shrimp			30		21		*****	
Yards at mouth Pots, eel		*****	495	******	396 50	150	40	8
Spears	4.5				19	150	40	8
Dredges—				*******	2.0	*******		
Crab					80			
Yards at mouth					107			
Oyster	64				36			
	54		1		44			
Yards at mouth								
Yards at mouth Scallop.					328			
Yards at mouth					328 318 208	*******	******	*****

OPERATING UNITS: By counties-Continued

Item	Dare	Gates	Hert- ford	Hyde	Lenoir	Martin	New Han- over	Onslow
Fishermen: On vessels	Number 3	Number	Number	Number 3	Number	Number	Number	Numbe
On boats and shore— Regular Casual	589	20	6	81 25	35	18 22	140 50	11
Total	592	20	6	109	35	40	190	12
Vessels:							Terror	
Motor—5 to 10 tons Net tonnage	7							
Sail—5 to 10 tons Net tonnage Boats:				6				
Motor	229	2	2	46	4	0	45	1000
OtherApparatus: Purse seines—Other	189	20	3	32	16	8 26	45 90	50
Length, yards	700							
Haul seines— Common	67	T. MA					22	25
Length, yards Long	19, 800 27			2	300	950	3, 520	2, 045
Length, yards Gill nets—	19,850							
AnchorSquare yards	560 222, 950							14
Drift	222, 950	20		10		12	42	15, 000
Square yards Runaround	14	2, 000		11,660		850	82, 410 70	140
Square yards	8,400			12,833			10, 300	53, 200
StakeSquare yards				695 44, 700	15 600	78		
Lines—				44, 700		10		
Hand					20 40			300
Trot, with baits or snoods	7			2	40			300
Baits or snoods	5, 600			1,600		7	5	
HooksPound nets	807	10	17	95		350	250	
Weirs	307	10				4		
Wheels						15		
Wheels Fyke nets Dip nets, common	8	25				2 12		
					10			
Turtle traps				30				
Turtle traps Pots, eel Spears	100			5		16		20
Dredges—								20
Oyster	14			41				
Yards at mouth	14 26			32 30				55
Rakes	6						50	25
THE CONTRACT OF THE PARTY OF TH	-	Pam-	Daggue		Donomi			Week
Item		lico	Pasquo- tank	Pender	Perqui- mans	Pitt	Tyrrell	Wash- ington
Fishermen: On vessels.		Number 102	Number 19	Number	Number	Number	Number	Number
On boats and shore— Regular		₹32	39	. 7	43	2	48	28
Casual		149		190		10	40	50
Total		283	58	197		12	88	78
Vessels: Motor— 5 to 10 tons		6	2 4				- 1, m 1 m	
Total		6 41	6 79					

Fisheries of North Carolina, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Pam- lico	PaIquo- tank	Pender	Perqui- mans	Pitt	Tyrrell	Wash- ington
Vessels—Continued.							
		Number	Number	Number	Number	Number	Number
5 to 10 tons	18						
21 to 30 tons.	1						
Total	24	1					
Net tonnage	216	11					
Total vessels	30	7					
Total net tonnage	257	90		******			*******
Boats:	-					-	
Motor	89	19	4	23	1	36	16
Other	66	20	145	23	2	- 36	21
Accessory boats	6	-				00	
Apparatus:		Corre			10000000		100
Haul seines—							
Common	8		19		1		urt 2
Length, yards	1,900		2,850	******	600		1,600
Long	2						*******
Length, yards	1,800					*******	******
Gill nets—			19-1-03	100		-	
Anchor		556		425		265	120
Square yards		214, 120	30	317, 050	******		60, 920
RunaroundSquare yards			10,000				
Stake	445	60	10,000		****	640	*******
Square yards	12, 950	2, 400	******			23, 472	
Lines—	12,000	2, 100	******			20, 112	
Trot with baits or snoods	82					*******	
Baits or snoods	52,000		******				
Pound nets	179	22	******	62		120	67
Fyke nets.		124	******			134	******
Dip nets, common			******				1
Otter trawls—							
Fish		3				******	
Yards at mouth		54			*****		
ShrimpYards at mouth			17				
Pots, eel	40	36	11	100	******	60	
Spears	40	30	15			00	
Dredges—		******	10	******		******	
Oyster	80	8		716114	1000		
Yards at mouth	88	9					
Tongs.	91		60				
Rakes			200				

CATCH: BY COUNTIES

On the second	Beau	fort	Bert	ie	Bruns	wick	Cam	iden
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives Black bass		\$1, 964	1, 188, 000	\$5, 940			16, 000 2, 500	\$17 37
Bluefish Bowfin						\$3, 500	1, 200	2
Butterfish		300 565					8,000	64
Catfish and bullheads Croaker	14, 200 187, 000	630 1, 910	1,000	50	2, 100 32, 000	63 320	3,000	12
Orum, red or redfish		1,000			1, 800	108	600	4
Flounders Gizzard shad		819			54, 200	2, 690	100 500	
Hickory shad King whiting or "kingfish"	16, 700	481			26, 100	862	500	2.
Menhaden		1 050			24, 325, 200	121, 344	1.500	
MulletPigfish	500	1, 358 15			237, 510	9, 188	1, 500	120
Pike or pickerel	100	10					250	2
Sea bass					17, 200	860		

American Kreinin	Beau	fort	Bert	ie	Brun	swick	Cam	iden
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Shad	65, 550	\$15, 182	11, 400	\$1, 760	3, 800	\$570	1, 500	\$300
Sheepshead	150	12			300	21		
Spot	12,000	230			14, 000	280		
Squeteagues or "sea trout": Gray	69,000	2,070	I I William	-08 [7]	31,000	930	1115	alline
Spotted	4, 500	450			11, 800	1, 180		
Striped bass	7, 300 4, 400	755 440	3, 500				3,000 6,800	600 430
Yellow perch	3, 100	205	22,000	1,000				125
		8, 782			450 500	10.005		
Shrimp Clams, hard, public					453, 500 20, 800			
Oysters:	Ently Ently	0	- OTHER		20,000	0, 100		
Market, public, spring		8, 230						
Market, public, fall		17, 250			5, 898	550		
Total	1, 872, 081	62, 658	1, 225, 900	9, 805	25, 287, 208	158, 871	47, 950	3, 017
(4) (10074_) (500)	Carte	ret	Chov	wan	Cra	ven	Currit	uek
Species			CALL D	57,101				
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
AlewivesBlack bass	37, 000	\$420	3, 172, 800	\$28, 529	127, 500	\$836	16, 900 89, 213	\$418 12, 965
Bluefish	446, 800	20, 355	500	40	16, 350	327	4,500	225
Bonito	11,000	233					1, 000 13, 980	30
BowfinButterfish		1,076			49,000	980	1,000	463
Carp		1,010	4, 500	210			352, 689	26, 518
Catfish and bullheads			60,000	3,000			165,572	6, 979
Cero	9,000	680	200	10			300	15
Croaker	2, 435, 750	41, 374	75, 000	1,400	217, 810	2, 178	65,000	1, 300
Drum, red or redfishEels	66, 050 1, 000	1, 108	3, 400	292	1,000	1, 400	1,000 52,110	3, 769
Flounders	31, 750	1,508	20, 100	806		419	13, 250 11, 991	947
Gizzard shad			4,000	40			11, 991	210
Grunts Harvestfish	18, 000 231, 000	360 7, 560					1,000	30
Hickory shad	48, 200	1,570	16, 400	1, 200	3, 500	105	3,000	175
King whiting or "kingfish"	142, 200	5, 624	1, 200	48			7, 500	375
Menhaden	926, 440	414, 287 25, 748			121, 100	8, 432	2,800	196
Pigfish	84, 700	1, 437					850	11
Pike or pickerel	01 500	473					7, 820	868
Pinfish Pompano	31, 500 2, 650	261					200	30
Sea bass	110,050	4, 405						3, 839
Shad.	41,000	7, 690 232	72, 350	13, 175	53, 150	10, 655	22, 800 400	23
Sheepshead	4, 890 2, 750	155						
Spadefish Spanish mackerel	380	16					050	85
Spanish mackerel	108, 165	10, 124 22, 943	5, 000	100	76,000	1, 270	850 16, 000	330
Squeteagues or "sea trout":	1, 392, 350							
Gray	695, 690		5, 000	200	91, 537 29, 809	2, 146 3, 577	18, 000 18, 000	960 1, 640
SpottedSquirrelfish	206, 550 50	14, 942				0,011		
Striped bass	17, 290	1, 644	19, 800	3, 910	16, 350	2, 438	61,822	11, 999
Suckers			8,000	380			500 7, 597	10 158
Sunfish White perch	400	20	10, 500	900			202, 448	11,590
Yellow perch	100		3, 500	280	6,000	900	57, 350	3, 132
Crabs:	10.000	050	-					
Hard	13, 000 378, 580	250 57, 068						
Shrimp	799, 860	25, 650						
Clams, hard, public	184, 000	23, 125						

CATCH: BY COUNTIES-Continued

All something	C	arter	et		Chov	wan	Cra	ven	Currit	uck
Species	Pound	is	Value	3	Pounds	Value	Pounds	Value	Pounds	Value
Oysters: Market, public, spring Market, public, fall. Scallops, bay. Octopus. Terrapin, diamond-back. Turtles, loggerhead.	379, 431, 1,	683	29, 820 26, 014 53, 923 150 45						70	\$2
Total	119, 639,	289	830, 683	\$3	3,482,250	\$54, 520	843, 406	\$35, 673	1, 217, 512	89, 382
		D	are		Gt	ates	Her	tford	Нус	le
Species	Po	unds	Valu	пе	Pounds	Value	Pounds	Value	Pounds	Value
Alewives. Black bass	20	6, 400 3, 500			40, 000	\$600	103, 000	\$575	58, 000	\$950
Bluefish Bonito	19	4, 685 6, 850	5 11, 97						127, 400	5, 096
Bowfin. Butterfish. Carp. Catfish and bullheads.	2 4 4	1, 300 3, 775 7, 150 7, 000	5 66 2,01 1,81	60	300 6, 200	10 15 260			54, 500 1, 000	1, 105 20
Crappie	46	700	7, 80	20 02	400	60			599, 000	5, 830
Drum, red or redfish	7	2, 100 9, 100 9, 800 100	3, 98	94 90 84 6	200	16			42,000 1,000 2,500	610 100 125
Gizzard shad. Harvestfish Hickory shad King whiting or "kingfish"	3	2, 500 8, 700 2, 500	1, 04	45 49 05	1,000	60			72, 600 17, 750	1, 472 425
Pigfish	7	3, 950 9, 200 3, 650	1, 47	76 46 68					6, 400 196, 500	320 6, 000
Pike or pickerel Pinfish Pompano Shad		1, 200 400 5, 650 8, 400	60	74 7 06 98	4, 950	800	500	75	10, 700	1, 840
Sheepshead Spadefish Spanish mackerel		1, 350 50 8, 050) 7	72 1 91	1,000				3, 225 8, 100	161
Squeteagues or "sea trout": Gray	74	9, 240 6, 450	3, 80	07 85					161, 200 355, 250	3, 224 11, 735
Spotted Squirrelfish Striped bass Sturgeon	13	6, 050 100 6, 200 700	19, 70	5	400	74			2, 200 400	3, 550 80 100
Suckers Sunfish Tripletail		1, 200 500	5	27 19	200	8			100	100
Yellow perch	5	6, 750 6, 350 0, 000	1, 36	65 22 00	2, 500 200	260 16	1,000	100	13, 300	133
Oysters: Market, public, spring	17	1, 600 9, 856	9, 62						800 70, 526	6, 672
Market, public, fall Turtles, snapper	3	3, 244	2,80	00					65, 550 300	6, 208 15

. 3, 756, 850 239, 392 56, 850

750 1, 913, 301

56, 347

2, 179 104, 500

Fisheries of North Carolina, 1930—Continued CATCH: BY COUNTIES—Continued

CA	ATCH: B	Y COUNT	ries-Co	ntinued				
Species	Lei	noir	Ma	rtin	New H	Ianover	Onsl	ow
not to the second and the	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives			214, 000	\$1,220				
Carp		\$50	16,000	800				
Catfish and bullheads		100 50	13, 500	405	10,000	\$300		
Croaker		00			2, 100	42	12,000	\$130
Drum, red or redfish					600	24		
Flounders		25	15,000	750	4, 500		7 000	
Hickory shad	3,000	150			4, 500	225	7,000	490
Hickory shad King whiting or "kingfish"					1,000	100	30,000	1,800
MulletPorgies					330,000	16, 500	169,000	6,305
Sea bass					1,000 40,000	2, 400	6,000	310
Shad	2,000	400	1,500	300	48,000	9,600	0,000	310
Sea bass							2,000	40
Spot					6,000 143,000	300 2, 860	15,000	175
Squeteagues or "sea trout": Gray	HILD A.	0 11111	A STATE OF THE STA		20,000	2, 000		170
Gray					1 000		2,500	85
SpottedStriped bass	4.000	1.000	6,000	825	1,000	100	8, 500	1,025
Sturgeon					1,500	600		
Suckers	700	70						
Yellow perch	1.000		2,000	200				
Yellow perch							350	11
Shrimp					43, 250	1, 297 8, 750		
Clams, hard, public Oysters:	And the second	and the same			56,000	8,750	12,000	1, 125
Market, public, spring							16,086	1,000
Market, public, fall							16,086	1,000
Total	13, 450	2,070	268, 000	4, 500	687, 950	43, 128	296, 522	13, 496
	P	1,	n	- 1	, n	1	70	
Species	Pam	lico	Pasqu	iotank	Per	ıder	Perqu	imans
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	75,000	\$668	101, 500	\$1,580			180,000	\$1,600
Black bass			1,200	180				
BluefishBowfin	900	43	1, 800 1, 250	216 15			1,000	30
Butterfish	6, 500	130	1,200	10			1,000	50
Carp	700	13	3, 150	237			5, 500	275
Catfish and bullheads	752,000	8, 530	64, 800 265, 100	2, 695 4, 453	5,000	\$150	33, 000	1,960
Drum, red or redfish	10,500	80		1, 100		φ100		
Eels	5,000	400	4, 750 62, 700	330			15, 100	1,510
FloundersGizzard shad	27, 200	1, 193	15,000	3, 157 258	5,000		2, 100 5, 000	90 53
Hickory shad	14, 500	485	10,000					1,360
King whiting or "kingfish"	100 100	0.000	14,000	560	105 000			100
Pigfish	100, 400 4, 500	8, 030 65	2, 700	216	185,000	5, 975	1, 500	120
Pike or pickerel			700	70				
Shad	73,000	14, 800	61,300	10, 257			85,000	16, 885
Sheepshead	1,300 148,000	1,680			125,000	1, 435		
Squeteagues or "sea trout":					20,000	2, 200		
Gray	314,000	8, 875	4, 700	235				
Spotted	25, 000 1, 100	2, 650 43	25,000	4, 800			60,000	9,000
Suckers			450	15			5, 800	241
White perch			18,700	1,586			52,000 500	5, 200 50
Yellow perch	322,000	9,030	4, 300	226			500	
Shrimp					2,000	500		
Clams, hard, public					41, 520	4, 080		
Oysters: Market, public, spring	208, 245	15, 278	15,014	2, 100				
Market, public, fall	376, 942	27, 521	8, 043	1, 080				
Total	2, 466, 787	99, 578	686, 157	34, 796	363, 520	12,390	464,000	38, 374

CATCH: BY COUNTIES-Continued

	Pit	t	Tyrr	ell	Washi	ngton
Species	Pounds	Value	Pounds	Value	Pounds	Value
Alewives. Carp. Catfish and bullheads. Eels.		\$350 50	1, 798, 400 10, 000 28, 700 4, 500	\$8, 992 1, 000 1, 435 360	2, 043, 227 10, 000	\$10, 213 500
Flounders. Hickory shad Shad Striped bass. White perch Yellow perch	1, 200 2, 250 1, 000	36 461 100	7, 500 13, 400 12, 100 12, 800 11, 400	750 2, 680 1, 855 1, 280 1, 140	38, 210 19, 611 80, 814 78, 910	1, 150 3, 223 1, 397 7, 893
Turtles, snapper			11, 100		200	10
Total	75, 450	997	1, 898, 800	19, 492	2, 270, 972	24, 383

Industries related to the fisheries of North Carolina, 1930 TRANSPORTING

Item	Beau- fort County	Bertie County	Cart- eret County		Dare County	Hyde County		Wash- ington County	Total
Persons engaged: On vesselsOn boats	Number 13	Number 1	Number 20	Number 3 4	Number 8	Number 2	Number 6	Number 2	Number 54 5
Total	13	1	20	7	8	2	6	2	59
Vessels, motor: 5 to 10 tons	4 2		14 2	2 1	1 3	1	1 1	1	22 10 1
Total Net tonnage	6 61		16 117	3 25	4 43	1 16	2 47	1 6	33 315
Boats		1		2					3

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Beaufort County	Bruns- wick County	Carteret County	Craven and Pamlico Counties	New Hanover Counties	Wash- ington, Pasquo- tank, and Bertie Counties	Total
Establishments Persons engaged:	10	3	36	11	5	6	71
Proprietors	11	4	47	13	5	10	90
Salaried employees Wage earners—	1	3	18	1		3	26
Average for season	159 66	134 22	323 127	213 59	3	220 31	1, 052 305
Paid to salaried employees	\$4, 080 28, 335	\$5, 595 15, 952	\$25, 010 93, 443	\$500 28, 014	\$1, 150	\$13, 577 18, 268	\$48, 762 185, 162
Total salaries and wages	32, 415	21, 547	118, 453	28, 514	1, 150	31, 845	233, 924

Industries related to the fisheries of North Carolina, 1930—Continued WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Alewives, saltedpounds	795, 000	\$24, 500
Acid scrap tons	3, 379	83, 414
Dry scrapdo	2, 894	133, 149
Mealdo	1, 457	76, 909
Oilgallons	308, 472	51, 877
Mullet, saltedpounds_	666, 660	42, 109
Spot, salteddo	172,000	10, 220
Ovsters:		20, 220
Fresh-shucked gallons	112, 539	140, 465
Canned standard cases	9, 945	49, 529
Miscellaneous 1	(2)	224, 579
Total		836, 751

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 417]

Alewives: pounds Salted do Corned do Mullet, salted do Sturgeon roe, fresh do Scallops, bay, fresh-shucked gallons	2, 245, 800 1, 505, 800 143, 200 140 47, 000	\$38, 971 27, 280 10, 828 140 53, 000
Total		130, 219

¹ Includes fresh-cooked crab meat; cooked and canned shrimp; pickled alewives; fresh fillets of butterfish, croaker, and squeteague; canned alewife roe; and oyster-shell products.

² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, I has also been included as a fisherman, and among the total persons engaged in the preparation of fishermen's manufactured products, 344 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries, exclusive of duplication.

SOUTH CAROLINA

Fisheries of South Carolina, 1930
OPERATING UNITS: BY GEAR

	W 3.	40	Gill nets		Lin	ies	Dip
Item Item	Haul seines	Anchor	Drift	Run- around	Hand	Trot, with baits or snoods	nets, com- mon
Fishermen: On vessels	Number	Number	Number	Number	Number 21	Number	Number
On boats and shore— RegularCasual	18 288	40 191	50 230	27	91 15	6	10
Total	306	231	280	27	127	6	10
Vessels, motor: 5 to 10 tons 11 to 20 tons					2		
Total vessels Total net tonnage					3 29		
Boats: Motor Other	3 79	1 201	10 172	27	9 40		10
Apparatus: Number		282	157	27	127	6	10
Length, yardsSquare yards Hooks, baits, or snoods		82,000	160, 790	13, 000	460	4, 800	

Fisheries of South Carolina, 1930—Continued OPERATING UNITS: BY GEAR—Continued

Item	Otter trawls, shrimp	Spears	Dred- ges, oyster	Tongs	Rakes	Grahs	By hand	Total, exclu- sive of dupli- cation
Fishermen: On vessels. On boats and shore—	Number 19	Number	Number 6	Number	Number	Number	Number	Number 39
Regular Casual	52 6	30		27 50	15 32	451 50	40 9	705 756
Total	77	30	6	77	47	501	49	1, 500
Vessels, motor: 5 to 10 tons. 11 to 20 tons.	3 4		<u>1</u>					5 5
Total vessels Total net tonnage	7 88		1 19					10 124
Boats: Motor Other	29	30		45	31	477	····· ₇	51 969
Apparatus: Number Yards at mouth	36 675	30	2 3	77	47	501		

CATCH: BY GEAR

01	TT . 1		Gill nets						
Species	Haul	seines	Anchor		Drift		Runaround		
Alewives	Pounds	Value	Pounds	Value	Pounds 2,000	Value \$10	Pounds	Value	
Croaker Drum, red or redfish	1,000 7,350	\$10 377							
Flounders	2, 000	100	3, 250	\$145	4 950	105	725	\$36	
Hickory shad King whiting or "kingfish"	3, 080	201	3, 230	\$140	4, 250	185			
MulletShad	358, 000	18, 272	89, 857	15, 428	122, 310	16, 589	54, 000	2, 700	
SpotSqueteagues or "sea trout":	11, 200	324					17,000	340	
GraySpotted	2,000 7,400	100 740					2, 300	230	
Sturgeon. Terrapin, diamond-back		598	8, 464	1, 693					
Total	393, 649	20, 722	101, 571	17, 266	135, 060	18, 084	74, 025	3, 306	

Fisheries of South Carolina, 1930—Continued CATCH: By GEAR—Continued

Species Bluefish	Pound 100 2,000		e Pou	snood	or					Spec	irs
Oatfish and bullheads Croaker Drum: Black	2,000	\$1		T	Trot, with baits or snoods		Dip nets, common		Otter trawls, shrimp		
Oatfish and bullheads Croaker Drum: Black	2,000			inds	Value	Pound	s Valı	ie Poundi	Value	Pounds	Value
Croaker Drum: Black		4							******		
Drum: Black	1,000										
Black	and the second	5	0						*****	******	
	500	2	5				1		101010		
Flounders	300							2,000		25,000	\$2,000
Grunts	8, 000	64								any over	
King whiting or "kingfis	h'' 30,000		0					5,000			
Pigfish	72		2								
Pinfish											
Pompano											
Porgies	107 05	1 15 50									
Shad		15, 58					\$34	0			
Sharks	10,000	20						8			
Sheepshead	100		-								
Skates											
Snapper, mangrove											
Spot	100		5								
Squeteagues or "sea trou	ıt":										
Gray	20, 00							2,000	20		
Spotted											
Squirrelfish			0.0	222	*****						
Crabs, hard			20,	000	\$780			700 700			
Shrimp		29	0					792, 733			
Octopus	3, 50	29	0								
Total	282, 32	22, 12	9 26,	000	780	2, 325	34	8 801, 733	32, 184	25, 000	2,000
Species	Dredges, o	yster	Tor	igs	1	Rakes		Gra	bs	Byh	and
					_						
Clams, hard, public	Pounds V		Pounds			unds V 200 \$1		Pounds	Value	Pounds	Value
Oysters:											
Market, public,							,	, 738, 968	\$58, 387	3, 089	\$500
spring Market, public, fall.			9, 221	\$750	0 6	915		661, 370	23, 714	6, 454	1, 000
Market, private,			Jy man	21.00	-		200	2021010		.,	
spring	115, 255 \$10	, 000	43, 566	2, 363	3			387, 257	21,000		
Market, private,	1					-					
fail	******		22,853	1, 238	8			253, 561	13, 750		
Terrapin, diamond-	0.000									4, 200	1, 488
back		****		~ = ~ =				****		4, 200	1, 400
Total	115, 255 10	, 000	75, 640	4.35	1 18	115 1	850 3	, 041, 156	116, 851	13, 743	2, 988

OPERATING UNITS: BY COUNTIES

Item	Beaufort	Charles- ton	Colleton	George- town	Horry
Fishermen: On yessels	Number	Number 39	Number	Number	Number
On boats and shore— Regular Casual	326 74	256 143	129	100 230	23 180
Total	400	438	129	330	203
Vessels, motor: 5 to 10 tons 11 to 20 tons	******	. 5 5			*******
Total vessels	******	10 124			

Fisheries of South Carolina, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Beaufort	Charles- ton	Colleton	George- town	Horry
Boats:	Number	Number	Number	Number	Number
Motor		35	1	12	3
Other	372	230	109	188	70
Apparatus:			d.		10
Haul seines	- 2	2		4	13
Length, yards	135	100		800	2, 500
Gill nets—					19050075
Anchor		40	142	40	
Square yards	12,000	16,000	35, 400	18,600	
Drift		17	20	100	
Square yards	10,000	24, 100	24, 000	102, 690	
Runaround				27	
Square yards				13,000	
Lines—	1	The Parket			1000
Hand		92		20	15
Hooks		360		40	60
Trot, with baits or snoods		6			
Baits or snoods		4,800			
Dip nets, common					10
Otter trawls, shrimp				1	
Yards at mouth		655		20	
Spears				30	
Dredges, oyster		2			
Yards at mouth		3			
Tongs	10	17			50
Rakes				15	32
Grabs	316	185			

CATCH: BY COUNTIES

	Beauf	ort	Charle	ston	Colle	ton	George	town	Hor	ry
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives							2,000	\$10		
Bluefish			100	\$10						
Catfish and bullheads			2,000	40						
Croaker			1,000				1,000	10		
Drum:			2,000	-			-,	-	1000000	
Black	1517	out deal	500	25				2222		
Red or redfish			1,000	89	1000		3, 250	162	4, 100	\$215
Flounders			2, 300						1,700	
Grunts			8,000				20,020	2,001	2,.00	00
Hickory shad				010			7,000	280		
King whiting or "kingfish".	000	400	35,000	3, 250			450		2,630	174
Mullet			00, 000				104,000			
Pigfish							101,000	0, 200	725	
Pinfish							1,000	50		
Pompano				15			1,000	00	2,000	00
Porgies										
Sea bass			182, 000				4,000	240	11, 250	787
Shad							122, 790			
Sharks			10,000			φο, συσ	122, 100	10,000	2,020	010
Sheepshead			10,000	10						
Skates			1,000							
Snapper, mangrove										
Spot							18, 200	364	10,000	300
Squeteagues or "sea trout":			100	0			10, 200	304	10,000	300
Gray			22,000	1 690					2,000	100
Spotted				1,020				480		
Squirrelfish				18			4, 000	400	0, 100	010
Sturgeon				18		1 602	e 500	1,300		
Crabs, hard				780	8, 404	1,693	0, 500	1, 500		
Shrimp				21 100			10 500	005		
Clams, hard, public.			180, 233	31, 189			12, 500			800
Ovsters:							4,800	600	6, 400	800
	1 155 505	20 005	504 000	00 000						
Market, public, spring								450	0 000	750
Market, public, fall Market, private, spring.								450	9, 220	150
Market, private, fall		1, 238								
Octopus	4 010	1 411	3, 500							
Terrapin, diamond-back	4, 019	1, 411	1,800	675						
Total	1, 779, 096	65, 696	2, 572, 657	128, 278	63, 164	11, 658	325, 230	27, 234	365, 450	19, 993

Industries related to the fisheries of South Carolina, 1930 TRANSPORTING

Item	Beaufort County	Charles- ton County	Total
Persons engaged: On vessels. On boats.	Number 78 7	Number 28	Number 106 7
Total	85	28	113
Vessels:	1	7 5	7 6
Total	1 13	12 125	13 138
Sail— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons.	26 9 1	3 1	29 10 1
Total Net tonnage	36 330	4 38	40 368
Total vessels Total net tonnage	37 343	16 163	53 506
Boats	28	5	33

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Beaufort County	Charles- ton County	George- town County	Total
Establishments	17	12	3	32
Persons engaged: Proprietors. Salaried employees. Wage earners—	18 8	12 13	3 3	33 24
Average for season Average for year	833 286	460 191	34 14	1, 327 491
Paid to salaried employees Paid to wage earners	\$26, 271 95, 908	\$42, 248 80, 276	\$1, 405 13, 290	\$69, 924 189, 474
Total salaries and wages	122, 179	122, 524	14, 695	259, 398

PRODUCTS MANUFACTURED

Item	Quantity	Value
Shrimp, canned standard cases.	40, 108	\$245, 688
Oysters: gallons. Fresh-shucked gallons. Canned standard cases. Miscellaneous ¹	32, 943 93, 288 (²)	38, 750 408, 465 189, 635
Total		882, 538

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 37]

Mullet, salted pounds Sturgeon roe, salted do do	360, 000 182	\$28, 800 137
Total	360, 182	28, 937

¹ Includes menhaden and oyster-shell products.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 74 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 37 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

² Data not available.

GEORGIA

Fisheries of Georgia, 1930 OPERATING UNITS: BY GEAR

						Gill	net	ts		Lines		
Purse seines, men- haden		na l	Ancl	hor	D	rift			Stake	Hand	Trot, with baits or snoods	
Number	Num	ber I	Vum	nber 1	Nu	mber	Nu	umber	Number	Number	Number	
90										8		
				22		12 265		34 11	2 53		6	
90		80		22		277		45	55	8	6	
									- / Tp00	me myt		
1 1 1												
3 166												
										1 14		
3 166										1 14		
			717		7 7	6		13	1			
9		24		19		140		32	42	3	6	
900				27		146			105	8	6	
			6, 0				14	, 310	54, 540	16	1, 950	
Lines, trot, with hooks	Fyke nets		te I	traw	ls,			Tong	s Rake	s Grabs	Total, exclu- sive of dupli- cation	
Num- ber	Num- ber							Num	- Num ber	Num- ber	Number 144	
68	30					3	30			34 50	371 472	
68	30	_			_	3	30		-	-	987	
					-	-		-	-			
											1 1 1	
											3 166	
	1 1 1 1 1				21 2	216		BOLL			21 3	
											24 195	
				:	23						27 361	
		000		-	_	Trans.		Dain	10.89 Lu	mat t		
18	10	4	10 _	. 17	75	3	0	108	6	64	178 421 12	
		1			1000	1,670,529	100	DATE	CHARLES TO SEE	CHEST COLOR		
	men- haden Number 90 1 1 1 1 1 3 166 3 166 Lines, trot, with hooks Number 68 68 68	Seines, Hat Seine haden	Seines Haul Seines haden	Seines Haul Seines Ance	Seines Haul Seines Anchor	Seines Haul Seines Anchor Description Descript	Purse seines menhaden seines seines menhaden seines menhaden seines menhaden seines menhaden seines menhaden seines seines menhaden seines seines menhaden seines s	Purse seines menhaden Sein	Seines Haul Seines Anchor Drift Run- Run- Runbar Number Purse seines, menhaden seines seines seines, menhaden seines sein	Purse seines		

Fisheries of Georgia, 1930-Continued

CATCH: BY GEAR

ru	rse seme		Purse seines, men-			Gill nets					
haden			Haul seines		And	Anchor		ift			
P	ounds	Vali	ie	Pounds 1,000			Value	Pounds	Value		
	•••••			300	24	2,600	\$208	15, 700	\$1, 220		
24,	701, 250	\$94, 10	00	30, 000	1, 500				250		
						15, 800	3, 160	223, 705	44, 54		
					130						
								4, 500	900		
_		94, 10	00	53, 500		-	3, 368	248, 905	46, 917		
	G	ill net	s-	Continu	ed		Li	nes	19.18.1		
	Duna	round		Q+	, le o	W.	nd	Trot, wi	th baits		
	Kunaround			Stake		Па	ша	or snoods			
	Pounds	Valu	ie.	Pounds	Value			Pounds	Value		
	14, 500	\$29	90			1,012	\$227				
		,	30								
	5, 250	2	10								
	5, 300	36	65			7 254	441				
						390					
				7, 200	\$576		939				
	16, 250										
	72, 800					20.840	2 005				
				35, 250	7,050	20,010					
	700	4	12								
						200					
	3,750		55				2, 102				
P-	3,000	13	30								
	47, 150	3, 76	62		100						
					100			154, 000	\$3, 080		
	171, 700	9, 5	72	42, 950	.7,726	64, 279	5, 415	154, 000	3, 080		
Lir	ines—Trot,		F	Tyke nets		Cast nets		Otter trawls,			
Descri	nde TZ-1	7	Don	nda Tr	due D	ounds Tr	ylu o T	Pounda	Value		
	00 \$7	740 2	12,	000 \$6,		ounus Vo	iiue I				
								3, 200 22, 000	\$224 1, 100		
					69	, 000 \$3,	800	7 000	140		
								7,000	140		
							8,	852, 712	334, 576		
16. 0	00 7	40 2	110	000 6	360 60	000 3	800 8.	891, 912	336, 180		
	7.ir wi	24, 701, 250 G Runa Pounds 14, 500 5, 250 72, 800 2, 000 700 3, 750 3, 000 47, 150 Lines—Tro with hook. Pounds Val 16, 000 \$7	24, 701, 250 94, 10 Gill net Runaround Pounds Value 14, 500 \$2: 1, 000 \$3 5, 250 36 72, 800 4, 2; 2, 000 \$3 700 \$3 3, 750 \$3 47, 150 3, 76 171, 700 9, 5 Lines—Trot, with hooks Pounds Value 16, 000 \$740 2	24, 701, 250 94, 100 Gill nets— Runaround Pounds Value 14, 500 \$290 1,000 30 5, 250 210 5, 300 365 72, 800 4, 245 2,000 80 700 42 3,750 55 3,000 130 47, 150 3, 762 171, 700 9, 572 Lines—Trot, with hooks Founds Pounds Value Pounds Pounds Value Pounds 16,000 \$740 212,	24, 701, 250 \$94, 100 30, 000 1, 200 1, 300 1, 300 24, 701, 250 94, 100 53, 500 Gill nets—Continu	1,000 \$20 300 24 24,701,250 \$94,100 30,000 1,500 1,500 1,200 24 1,300 130 19,700 5,040 24,701,250 94,100 53,500 6,738 Gill nets—Continued Runaround Stake Pounds Value Pounds Value 14,500 \$290 7,200 \$576 16,250 365 7,200 \$576 16,250 365 7,200 \$576 16,250 365 7,200 \$576 16,250 365 7,200 \$576 363 72,800 4,245 7,200 \$576 7,200 \$576 7,200 \$576 7,200 \$576 7,200 \$576 7,200 \$576 7,200 \$576 7,200 \$576 7,200 7,20	1,000 \$20 24 2,600 300 24 2,600 30,000 1,500 15,800 15,800 130 14,500 \$290 14,500 \$290 14,500 \$290 14,500 \$250 210 5,300 365 7,250 210 5,300 365 7,250 210 365 7,250 210 365 7,250 210 365 7,250 210 365 7,250 200 300 30 300	1,000 \$20 24 2,600 \$208	1,000 \$20 2,500 \$208 15,700 24,701,250 \$94,100 30,000 1,500 15,800 3,160 223,705 1,200 24		

Fisheries of Georgia, 1930—Continued

CATCH: BY GEAR-Continued

Species	Pots, crab		Tongs		Rakes		Crabs	
Crabs, hard	Pounds 67, 000	Value \$1,340	Pounds	Value	Pounds	Value	Pounds	Value
Clams, hard, public					2, 240	\$350		
Oysters: Market, public, spring		said I	29, 978	\$2,740				
Market, public, fall			21, 161	1, 440				
Market, private, spring Market, private, fall			18, 957 18, 975	2, 060 1, 356			31, 752 38, 562	\$1, 363 1, 649
Total	67,000	1, 340	89, 071	7, 596	2, 240	350	70, 314	3, 012

OPERATING UNITS: BY COUNTIES

Item	Bryan	Bullock	Camden	Charles- ton	Chatham	Glynn
Fishermen: On vessels On boats and shore—	Number	Number	Number 94	Number	Number 24	Number 24
Regular Casual	55	16	50 44	18	68 212	180 56
Total	55	. 16	188	18	304	260
Vessels: Steam— 41 to 50 tons. 51 to 60 tons. 61 to 70 tons.			1 1 1 1			
Total Net tonnage			3 166			
Motor— 5 to 10 tons			2		7 2	11 1
Total			2 18		9 79	12 88
Total vessels Total net tonnage			5 184		9 79	12 88
Boats: Motor. Other. Accessory boats. Apparatus: Purse seines, menhaden.	29		27 20 9	9	62 165 3	68 102
Length, yards Haul seines Length, yards			900		4 300	12 1, 550
Gill nets— Anchor Square yards	1,900					13 1, 610
DriftSquare yardsRunaround	83, 200	3, 056	22	2,700	31 162, 505 20	8, 100 22
Square yards					4, 390 75 49, 080	9, 170
Lines— Hand Hooks					8 16	
Trot, with baits or snoods					68	1, 950
Hooks Cast nets Otter trawls, shrimp			27		3, 400 20 54	20 80
Yards at mouth Pots, crab Tongs			540		1, 080	1, 736 30 20
Rakes. Grabs					6 84	

Fisheries of Georgia, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Liberty	Long	McIntosh	Screven	Tattnall	Wayne
Fishermen: On vessels	Number	Number	Number 2	Number	Number	Number
On boats and shore— Regular Casual	22	6	51 30	3	20	12
Total	22	6	83	3	20	12
Vessels: Motor— 5 to 10 tons Total net tonnage			1 10			TETOTRALITY TETOTRICK Micheller
Boats: Motor Other Apparatus: Gill nets—	1 20	3	19 32	3	1 18	12
Anchor		1, 180	13 13, 300	1, 400		12 2, 184
Runaround Square yards Stake Square yards			750		30 5, 460	
Fyke nets. Otter trawls, shrimp. Yards at mouth. Tongs.	1 18 20		60 20 400 22			

CATCH: BY COUNTIES

Species	Bry	an	Bull	lock	Camd	Charlton		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Hickory shad	2, 900	\$232	700	\$56	1, 200 24, 701, 250	\$96 94, 100		
ShadShrimp	43, 400	8, 680	2,800	360	18, 500 1, 052, 000	3, 700 41, 980	12, 300	\$2,460
Total	46, 300	8, 912	3, 500	416	25, 772, 950	139, 876	12, 300	2, 460

Chath	nam	Gly	nn	Liberty		Long	
Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
1, 012	\$227	132			7.40		
	740						
	64	12, 300	\$246				
-,	JUL 200			The same of		2000	
		1,000	30				
			210				
300	15		598				
	441						
		7, 700	616			600	\$48
		.,					
		23, 250	1, 163				
			80				
			14, 300			2, 100	420
00,000	20,002	700	42				
						1.77	
200	16						
	2.462						
	20	9, 950	199	1			414
2,000	-	a marcher	Later mixture	Certification		You note:	driens
1.000	30	2,000	100				
	12	48, 300	3,880				
	Chath Pounds 1, 012 16, 000 3, 200 300 7, 354 390 6, 500 4, 629 15, 000 20, 840 95, 005 200 29, 854 2, 000 1, 000 150	1, 012 \$227 16, 000 740 3, 200 64 3, 200 64 3, 200 64 300 15 7, 354 441 390 32 6, 500 490 4, 629 232 15, 000 300 91, 500 5, 440 20, 840 2, 005 95, 005 19, 001 208 49, 208 490 20, 840 2, 005 95, 005 19, 001	Pounds Value Pounds 1, 012 16, 000 3, 200 \$227 64 12, 300 1, 000 64 12, 300 5, 250 5, 250 300 15 7, 354 8, 500 4, 629 232 15, 000 7, 700 4, 629 232 232 15, 000 23, 250 76, 300 91, 500 5, 440 76, 300 76, 300 95, 005 19, 001 71, 500 95, 005 19, 001 71, 500 700 29, 854 2, 462 2, 000 20 9, 950 1, 000 30 2, 000	Pounds Value Pounds Value 1, 012 \$227	Pounds Value Pounds Value Pounds 1, 012 \$227 16,000 740 3, 200 64 12,300 \$246 <t< td=""><td>Pounds Value Pounds Value Pounds Value 1, 012 \$227 </td><td>Pounds Value Pounds Value Pounds Value Pounds Value Pounds 1, 012 16,000 740 3,200 64 12,300 \$246 \$227 \$227 \$227 \$227 \$227 \$227 \$227 \$227 \$227 \$228 \$228 \$228 \$228 \$228 \$228 \$228 \$229 \$229 \$229 \$229 \$229 \$228 <t< td=""></t<></td></t<>	Pounds Value Pounds Value Pounds Value 1, 012 \$227	Pounds Value Pounds Value Pounds Value Pounds Value Pounds 1, 012 16,000 740 3,200 64 12,300 \$246 \$227 \$227 \$227 \$227 \$227 \$227 \$227 \$227 \$227 \$228 \$228 \$228 \$228 \$228 \$228 \$228 \$229 \$229 \$229 \$229 \$229 \$228 <t< td=""></t<>

Fisheries of Georgia, 1930-Continued

CATCH: BY COUNTIES-Continued

Species	Chath	nam	Gly	nn	Libe	erty	Long	
Species	500 \$ 1,500 \$ 1,500 \$ 1,500 \$ 114, 2,240 \$ 10,140 \$ 3,527 \$ 33,075 \$ 1,57,537 \$ 3,14,500 \$ 4,	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Striped bass Sturgeon Crabs, hard		\$100 300	228, 000	\$4,560			August .	
Shrimp Clams, hard, public Oysters:		114, 904 350	3, 642, 098	145, 684	54,000	\$2,160		
Market, public, spring Market, public, fall Market, private, spring	3, 527 33, 075	690 240 1, 423	4, 408 17, 634	300 1, 200	17, 634	2,000		
Market, private, fall Terrapin, diamond-back		3, 005 4, 000	5, 200	1,040				
Total	3, 315, 567	156, 539	4, 166, 090	178, 063	71, 634	4, 160	2,700	\$46

a see from	McInt	osh	Screv	ven	Tatt	nall	Wayne	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Catfish and bullheads Hickory shad Mullet	212, 000 3, 800 9, 000	\$6, 360 304 540			1, 200	\$96	900	**
Shad Sturgeon	12, 000 3, 000	2, 400 600	1, 900	\$380	11, 250	2, 250	4,000	80
ShrimpOysters, market, public, spring	1, 207, 000 15, 430	29, 848 1, 750						
Total	1, 462, 230	41,802	1,900	380	12, 450	2, 346	4, 900	87

Industries related to the fisheries of Georgia, 1930

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Camden County	Chatham County	Glynn County	Liberty County		Total
Establishments Persons engaged:	4	13	6	3	3	
Proprietors	$\begin{smallmatrix}2\\4\end{smallmatrix}$	11 20	6 2	3 1	3	
Average for seasonAverage for year	212 92	292 198	336 74	33 9	217 34	1, 0
Paid to salaried employees Paid to wage earners	\$5,000 40,850	\$61, 040 72, 611	\$6,700 40,639	\$900 4, 753	\$1,901 19,051	\$75, 5 177, 9
Total salaries and wages	45, 850	133, 651	47, 339	5, 653	20, 952	253, 4

PRODUCTS MANUFACTURED

Item	Quantity	Value
Shrimp, canned standard cases Oysters, canned do Miscellaneous 1	75, 744 4, 293 (²)	\$437, 74 19, 74 172, 18
Total		629, 66

¹ Includes cooked peeled shrimp, crab meat, canned clam chowder, canned terrapin soup and mea menhaden products; and fresh-shucked oysters.
² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore they can not be correlated directly with the catch within the State.

FLORIDA

Fisheries of Florida, 1930
OPERATING UNITS: BY GEAR

		Purse	seines	Haul	seines			Gill	nets	
Item		Men- haden	Other	Com- mon	Long	Aı	nchor	Drift	Run- around	Stake
Fishermen: On vessels	Y.	Num- ber 226	Num- ber 20	Num- ber	Num- ber		um- ber	Num- ber	Num- ber	Num- ber
On boats and shore— Regular		48		831	297		21	206	2, 141	
Casual				32				60	24	
Total		274	20	863	297		21	266	2, 165	
Vessels: Motor—					-					1.24
11 to 20 tons		2 2 1	11							
51 to 60 tons		1	1							
61 to 70 tons		1								
81 to 90 tons 151 to 160 tons		1								
Total		9	2							
Net tonnage		510	54							
Boats:						-				
Motor		8		142	104		7	71	962	
OtherAccessory boats		19	2	124	146			138	1,738	
Apparatus:		10								
Number		17	2	173	80		42	212	2, 213	
Length, yards		4, 960	600	64, 220	64, 200		, 200	330, 450	2, 812, 854	1, 08
	HA, P	HOP.	1	Lines		1		1	Din	note
	m			Lines		_			1/10	nets
Item	Tram mel nets	Hane	d Trol	Trot with baits	or wit	h	Poun nets	f Fyke nets	Com- mon	Drop
Mg M 20 30 30 30	Num	- Num	ı- Num	_		m- -	Num	Num-	Num-	Num-
Fishermen:	ber	ber	ber	ber	be	1	ber	ber	ber	ber
On vessels On boats and shore—		57	3							
Regular	22				8 2	33	50	50		
Casual			_	6		8 -			18	3
Total	22	2 1,58	95	7	8 2	41	50	50	62	3
Vessels: Motor— 5 to 10 tons		1	2							
11 to 20 tons		1	7							
21 to 30 tons 31 to 40 tons			4							
41 to 50 tons			8							
			6							
61 to 70 tons 71 to 80 tons			3							
91 to 100 tons			1							
101 to 110 tons			1							
Total Net tonnage		2, 38	6							
Sail—		2,00	====	=	= ====					
51 to 60 tons		-	1							
61 to 70 tons			3							
131 to 140 tons 141 to 150 tons			1							
Total		-	6			- -				
Net tonnage		52								
Total vessels			2							
Total net tonnage										
Boats: MotorOther	11 12			2 4	6 2 2	17 18	2:	13 13 37		18
Apparatus: Number	18	0 1,57	9 1, 30	19	8 2	41	55	2 2,950	62	1 3
Square yards	129, 56	8						2,000		
Hooks, baits, or snoods		2, 80	9 1,81	4 1,70	00 106, 7	40 _				

Fisheries of Florida, 1930—Continued OPERATING UNITS: By GEAR—Continued

		Otter			Pots			Davidson
Item	Cast	trawls,	Wire baskets	Crab	Eel	Sea craw- fish	Spears	Dredge
Fishermen:	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber
On vessels On boats and shore— Regular	44	703 10	37 8	17 2	2	89	7 19	1
Total	44	764	45	19	2	89	26	1
Vessels:								
Motor— 5 to 10 tons————————————————————————————————————		11 11						
Total Net tonnage		22 236						
Boats: MotorOther	19	305	45	13 12	2	68 29	1011110	
Apparatus: Number		327 5, 689	520	1, 383	90	2, 533	26	stold.
				Но	oks			Total,
Item	Dredges, scallop	Tongs	Forks	Sea craw- fish	Sponge	Diving outfits	By hand	exclu- sive of dupli- cation
Fishermen:	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber
On vessels On boats and shore—								86
Regular Casual	3	389 31	46 12	50	334	412	39 96	6, 176
Total	3	420	58	50	334	412	135	7, 780
Vessels: Motor—						77-71-7		1 180
5 to 10 tons								23
11 to 20 tons 21 to 30 tons								30
								4
41 to 50 tons								10
51 to 60 tons								13
71 to 80 tons								1
81 to 90 tons								
91 to 100 tons								
Total Net tonnage								3, 174
								0, 11
Sail— 51 to 60 tons						1111000		
61 to 70 tons								
131 to 140 tons 141 to 150 tons								
								-
Total Net tonnage								527
Total vessels Total net tonnage							31141413	3, 701
Boats: Motor	1	131 176	3 20	50 25	283	55	32	2, 332 3, 220 21
A CURSSOF V. DOMES								2

CATCH: BY GEAR

		Purse se	eines			Haul	seines	
Species	Menha	aden	Oth	ner	Com	non	Lor	ng
William State of the State of t	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives	1 ounus	vacue	1 ounus	value	Lounas	value	362, 800	\$5, 442
Black bass					15, 899	\$1,490	193, 308	19, 174
Bluefish					251, 204	7, 054	100,000	10, 11.
Blue runner or hardtail					59, 071	720		7770 261
					1, 190	24		
Catfish and bullheads					396, 056	16, 874	2, 902, 291	124, 82
Cigarfish					58, 412	1, 752	2, 302, 231	121,02
Crappie					3, 674	239	653, 670	26, 32
Orevalle					14, 274	259		
						278		
Oroaker					14, 085	2/8		
Drum: Black					5, 627	139		carous
Black							603	30
Red or redfish					149, 974	4,732	603	31
Flounders					48, 848	2,044	00 400	05
Hickory shad							28, 428	
Kingfish or "king mackerel"					5, 479			
Hickory shad. Kingfish or "king mackerel" King whiting or "kingfish"		*****			29, 053	966		
Mennaden	39, 863, 848	\$109,956			50, 322	1,490		
Mojarro					44, 275			
Mullet								
Permit					11, 450			
Pigfish					18, 480			
Pinfish or sailors choice					200			
Pompano					66, 690	11, 528		
Sea bass								
Shad					295, 000	35, 400	143, 647	
Sheepshead					147, 032	4,450		
Snapper, mangrove					21, 549	617		
Snook or sergeantfish					240, 644			
Spadefish					48, 528			
Spanish mackerel	196				1, 068, 972	44, 318		
Snot					9 530	246		
Squeteagues or "sea trout": Gray	1							
Grav	a - 12				13, 133	700		
Spotted					415, 838	27,837		
Sunfish					7, 117	214	342, 392	10, 29
Tenpounder						4,595		
Yellowtail					400	20		
Turtles, soft-shell							11,578	23
i di vico, boto sucil								
Total	00 000 040	100 000	50,000	1 500	7, 515, 838	207 775	4, 638, 717	204, 484

	Gill nets										
Species	Anch	ior	Di	rift	Runar	Stake					
Amberjack	Pounds	Value	Pounds	Value	Pounds 220	Value \$11	Pounds	Value			
Bluefish			9, 732	\$708	683, 954	44, 188					
Blue runner or hardtail					77, 834	1, 510					
					58, 414	2, 976					
Crevalle					74, 862	2, 134					
Croaker					16, 835	412					
Drum:		1000			OF 015	=00		0.00			
Black					27, 017	700					
Red or redfish			1,000	50	630, 191	20, 720					
Eels					600	40					
Flounders					42, 844	2, 144					
Groupers					5, 000	400					
Hickory shad			1, 188	36							
Kingfish or "king mackerel"					29, 480	2, 340					
King whiting or "kingfish"			30,000	1, 200	37,000	1, 197					
Moiarro					35, 000						
Mullet			98, 111	4,853		518, 878					
Muttonfish					44, 035	2, 703					
Permit					3, 432	124					
Pigfish					43, 675	1,056					
Pinfish or sailors choice					77, 410	1, 498					
Pompano					192, 894	40, 369					
Shad			439, 384	75, 963			1,701	\$33			
Sharks	2, 187, 500	\$3,500									
Sheepshead.					502, 007	16, 695					

CATCH: BY GEAR-Continued

	CAIC	п. Бт	GEAR—C	опын	ieu				
				G	ill ne	ets			
Species	Ancl	hor	Dr	rift	old	Runar	ound	Sta	ke
Snapper: Mangrove	Pounds	Value	Pounds	Valu	e .	Pounds	Value	Pounds	
Mangrove						59, 931 2, 094	\$2, 414 209		1 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
Snock or sergeantfish						104, 485	3, 792		
Spadefish						33	1		
Spanish mackerel			9, 892	\$54	9 4	, 913, 459 133, 026	240, 510 3, 766		
Spot							1		La Constant
GraySpotted			1, 200	12		510, 458	36, 870 105, 300		
Sturgeon			3, 191	31	0	, 503, 508 4, 207	765		
Tenpounder.						22, 672	618 16		
YellowtailCrabs, hard					15	400 600	210		
Turtles, green	21, 550	\$1,078							
Total	2, 209, 050	4 570	593, 698	02 70	97	000 000	1, 055, 766	1, 701	\$335
1 otal	2, 209, 050	4, 578	393, 698	80, 78	21	, 002, 000	1, 055, 766	1, 701	фоод
		The s	A. W.	19. 5	N. 183	Liı	nes		DEPART !
Species	Tramm	el nets	Hand Troll					Trot, wi	th baits
			1	Hand			or sn	oods	
100000000000000000000000000000000000000	Pounds	Value	Pound	ls V	ılue	Pound	8 Value	Pounds	Value
Amberjack			21.00	00	656				
Bluefish	2, 210	\$84	7, 20 2, 20	00	720	100000000000000000000000000000000000000	0 \$10, 944		
Blue runner or hardtail				61	40 344				
Cero			1.000000			9, 95	0 480		
Crevalle			1, 0		50	22			
Dolphin			5, 0	00	500				
Black			1. 9	80	54				0.00
Red or redfish	15, 598	550	206, 3	26 7	376				
Red or redfish Flounders Groupers	2, 145	135	2 050 5	00	28 788				
Grunts			21, 8	83 91	657				
Hogfish			2, 0	00	100				
Jewfish			26, 0	50	782				
Kingfish or "king mackerel" King whiting or "kingfish" Mullet		24	3, 0	00	120	3, 592, 50	0 169, 336		
Mullet	775, 342	23, 261				L. L. L. L. L. L. L. L. L. L. L. L. L. L		1	
Muttonfish			176, 0		443	5, 00	0 300		
Pinfish or sailors choice Pompano		58, 704		40	20				
Porgies	307, 039	30, 704		33 1	627				
Porkfish		1	- 6	00	36				
Sea bassSheepshead	12 000	574	47, 3: 206, 2		170 943				
Snapper:	13, 909	3/4	200, 2	00 1	540				
Mangrove			39, 4	60 1	784				
RedSnook or sergeantfish		1	99 0	08 426	931				
Spanish mackerel			22, 9	95 1	820	48, 99	7 3, 430		
Spanish mackerel. Spanish mackerel. Squeteagues or "sea trout": Gray. Spotted Tripletail			72, 70		515	10, 00	3, 100		marund.
Spotted	77. 971	5. 747	674, 9	37 55.	060				001111
Tripletail			4, 8	69	168				
Turbot			- 9	00	54				
Yellowtail			88, 6	10 6	635			68, 200	\$2,816
Crase, nara								30,200	42,010

1, 195, 694 89, 079 9, 822, 372 627, 231 3, 793, 867 184, 494

68, 200

2,816

Fisheries of Florida, 1930—Continued CATCH: By GEAR—Continued

	Yin	70	1			-			1 ***	
Species		Trot,	Po	und	nets		Fyk	nets	Dip n Com	
	Pounds	Value	Pour	nds	Val	uz	Pounds	Value	Pounds	Volue
Alewives			2,	932		44				
Black bass			40	0.17						*****
BluefishBlue runner or hardtail				047 140	2, 2					*****
Cabio or crab eater		*******	2,	546		93				
				640	11, 4		32, 400	1, 428		
Crappie			25,	340 892	1, 5	20 15	216, 292	6, 309		75555
Groupers		*******	10,	220		6				
GroupersKing mackerel"			58,	406	3, 1				-	
Menhaden			500,	000	5, 0					
MulletPompano				019	1, 1	30				
Porgies	*******		100	800		16				
Sheepshead			2,	920		06				
Snapper, mangrove			0.5	880		32				
Spanish mackerel Squeteagues or "sea trout":		*******	60,	202	3, 5	07				
Spotted		Victory.	118.	312	8,5	97				
Sturgeon				012		84				
Sturgeon Sunfish Sea crawfish or spiny lobster		******		480	1, 0	94	48, 194	1, 415		
Sea crawfish or spiny lobster									. 140, 333	\$11, 22
Total	608, 900	29, 227	1, 753,	918	50, 5	26	420, 765	20, 133	140, 333	11, 22
Species	Dip r	ets—	Cast	net	8 (Otte	er trawls,	shrimp	Wire b	askets
	Pounds		Pound			Pe	ounds	Value	Pounds	Value
Catfish and bullheads									112, 530	\$6, 13
							1, 500 1, 300	\$45 60		
Drum, red or redfish	Here and the second						1, 500	00	543	1
Flounders King whiting or "kingfish" Mojarro							4,700	199		
King whiting or "kingfish"					525		53, 200	1, 658		
Mojarro			2,000	1,8						
Mullet Squeteagues or "sea trout": Gray	******		29, 000	1.0	550					
Gray							1,700	150		
Crabs, hard Sea crawfish or spiny lobster	4, 095	\$117								
Sea crawfish or spiny lobster	10,000	1,000				40.0	48, 576	635, 506		
Shrimp	*****					104 0	940, 070	000, 000		4
Total	14, 095	1, 117	31, 000	1, 6	850 1	16, 9	10, 976	637, 618	113, 073	6, 15
				P	ots					
Species	-			_				0.1	Spe	ars .
		Crab		1:	tel		Sea cr	awfish		

W-1	Pou			unds			Pounds		Pounds	Valu
EelsFlounders				000	88				20, 374	\$1,70
									411	2., 10
Hard			960							10000
Stone	190,					4 ==		\$13,660		
Sea crawfish or spiny lobster					10 = 0 =	* * =	137, 976	14, 004		16 (0 16 (6 a) A)
Total	228,	150 13,	530 16,	000	8	00	252, 476	28, 154	20, 374	1, 70
	Ė	Dr	edges			Г				
Species	-		1				Ton	gs	For	ks
	(lam	8	callo	p				100	
The state of the s	-	1				-				
Clams:	Pound	s Value	Pour	nds 1	Value	1	Pounds	Value	Pounds	Value
Hard, public	565, 52		5	-			21,000	\$1,050	97, 928	\$7,63
Hard, private							21, 000	1,050		
Oysters: Market, public, spring							723, 697	46, 312		
Market rubble full							808, 603	75, 739		
Market, private, spring							11, 237	1, 213	****	
Market, private, fall					2100		14, 478	1, 563	*****	
Scallops, bay			3, 9	19	\$188				******	
Total	565, 52	8 35, 34	3, 9	75	188	1	600, 015	126, 957	97, 928	7, 630
AUGMENTALISMENT			1							

CATCH: BY GEAR-Continued

	name and	H	looks		D	101	Daybond		
Species	Sea cra	wfish	Spo	onge	Diving	outfits	By hand		
Crabs, stone	Pounds 3,000	Value \$300	Pounds	Value	Pounds	Value	Pounds	Value	
Clams: Hard, public Hard, private Conches			20, 000	\$200			3, 432 2, 688	\$514 840	
							66, 471 69, 639 24, 308	5, 126 5, 365 1, 850	
							64, 820 17, 892 406	5, 000 1, 951 83	
Sponges:			76, 718 98, 513	24, 572 182, 458	6, 200 271, 952	\$1, 984 676, 241	400		
Sheepswool Velvet Wire			682 490 39, 015	409 110 12, 709	3, 291 52, 140	1, 931 30, 246			
Yellow	3,000	300	235, 418	220, 458	333, 583	710, 402	249, 656	20, 72	

OPERATING UNITS: BY COUNTIES

Item	Bay	Bre- vard	Brow- ard	Char- lotte	Citrus	Clay	Collier	Dade
Fishermen: On vessels	Number 135	Number	Number	Number	Number	Number	Number	Number 20
On boats and shore— Regular	185	156	5	331	132	49	92	360
Casual	27	28	50	46	26		25	25
Total	347	184	55	377	158	49	117	405
Vessels: Motor— 5 to 10 tons	5 5 2 1 3							1
Total Net tonnage	16 391							2 54
Boats:								
MotorOtherAccessory boatsApparatus:	48 67	92 109	29	168 324	47 145	14 31	45 61	225 60 2
Purse seines— Other Length, yards								600
Haul seines—								000
Common Length, yards	5, 400			7, 200		14 11, 600	1, 100	
Gill nets— Runaround Square yards	16 9, 900	136 126, 450		329 374, 000	85 49, 732		52 50, 230	80 200, 000
Trammel nets	3 1, 650	31:1100		25 24, 195			16,000	
Lines— Hand	185	6	20	64	32		27	55
Hooks Troll Hooks		12 35 35	20 50 60	64 81 81	32 2 2		27	55 230 460
Trot, with hooks Hooks		600				20, 400		
Dip nets, drop Otter trawls, shrimp		13						25
Yards at mouth Pots—	10	260				Jenn alf		
Crab Sea crawfish		38	240					2, 000
Spears Dredges, clam	7						1	
Tongs Forks Hooks, sea crawfish	62			4	38		15	2,000

Fisheries of Florida, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Dixie	Duval	Escam- bia	Frank- lin	Glades	Gulf	Hendry	Hills- borough
Fishermen: On vessels	Number	Number 10	Number 329	Number 26	Number	Number 60	Number	Number 13
On boats and shore— Regular Casual	20 8	197 50	174 6	497 14	122	123 6	5	84
Total	28	257	509	537	122	189	5	107
7essels:						-		-
Motor—	1			ris more	na-la	100	19 M N	
5 to 10 tons		1	4	6				3
11 to 20 tons 21 to 30 tons		1	1	1				
31 to 40 tons						1		
41 to 50 tons			7					
51 to 60 tons 61 to 70 tons	*******		6 9			1		
71 to 80 tons			3					
91 to 100 tons			1					
101 to 110 tons			1				*****	
Total		2	32	7		2		3
Net tonnage		18	1, 744	51		96		36
Sail—	201-5						7 100	
51 to 60 tons			1					
61 to 70 tons 131 to 140 tons			3	******				
141 to 150 tons			î					
			-					
Total Net tonnage			6 527					
Total vessels		2 18	38 2, 271	7		96		36
Total net tonnage		18	2,271	51		90		30
Boats:	10	01	***	101		91	0	34
MotorOther	5 28	81 121	53 34	181 102	41 44	21	2 3	67
apparatus:	20	121	0.	102				
Purse seines—		Jan Start	ho free h			10		
Menhaden						2, 960		******
Length, yards							17.19	
Common		12	5	10		2 000		
Length, yards		3,000	1,770	3, 750	19	3, 200	1	
Length, yards					18,000		900	
Gill nets—							M VAL	
Drift		200, 200		6,000				
Square yardsRunaround	15	17	12	33		9		50
Square yards	5, 375	23, 800	72,000	21,090		24,000	******	37, 085
Trammel nets			26 13, 520					
Square yardsLines—			10, 020					
Hand	28	35	393	57		6		63
Hooks	28	70 6	1, 115	114		6		00
Trot, with baits or snoods Baits or snoods		900					*******	
Trot, with hooks		38		20	1			
Hooks		12, 400		1,800	500	3		
Pound nets				3.66	1, 700	100		
Pyke nets Dip nets, drop			6				~ ~ ~ * * * * *	
Cast nets		25						
Otter trawls, shrimpYards at mouth		16 320	4 48	65 771				
Yards at mouth Wire baskets		320		520			****	
Spears				9				
Dredges, scallop				2 2				
Yards at mouth			29	196				

OPERATING UNI	TS: By COUNTIES—Continued
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Item	Indian River	Jeffer- son	Lee	Levy	Mana- tee	Martin	Monroe	Nassat
Fishermen: On vessels	Number	Number	Number	Number	Number	Number	Number 5	Numbe 17
On boats and shore— Regular————————————————————————————————————		11 8	88 42	153 28	119 8	30 10	493 18	12 2
Total	- 54	19	130	181	127	40	516	32
Vessels: Motor—								
5 to 10 tons							1	AZ.
31 to 40 tons								
51 to 60 tons								
Total							1	1
Net tonnage							6	47
Boats: Motor Other Accessory boats Apparatus:	. 29	3 18	56 113	68 149	56 94	20 5	146 333	38 4 11
Purse seines— Menhaden Length, yards								2, 000
Haul seines— Common Length, yards Gill nets—			2, 100		7 1, 850			
Anchor Square yards Drift							25, 200	10
Square yards Runaround			80	90	100	30	89	2, 25
Square yards	47,700	6, 425	58, 190	36, 365	126, 200	36, 000	166, 150	1, 80
Square yards Trammel nets Square yards			5, 000	12 2, 025	7 4, 640			1, 080
Lines— Hand Hooks	. 5 10	18 18	48 48	49 49	26 26	THE 85	68 68	30
Troll Hooks Pound nets	30		24 24	20 20 12	30 30	20 40	102 102	
Dip nets, common Otter trawls, shrimp							62	4
Yards at mouth Pots—			HH					88
Crab Sea crawfish					60		253	
Tongs Forks Hooks, sponge				33	. 1		232	
Item	Oka- loosa	Okee- chobee	Palm Beach	Pasco	Pinellas	Put- nam	St. Johns	St. Lucie
Fishermen: On vessels	Number	Number	Number	Number	Number 62	Number	Number 20	Number
On boats and shore— Regular Casual	120	37	250 18	28	805 119	244	210	184
Total	120	37	268	28	986	244	230	186
Vessels: Motor—								
5 to 10 tons					2 4 1		4 4	1
Total					9		8	1
Net tonnage					172		99	16

Fisheries of Florida, 1930-Continued OPERATING UNITS: BY COUNTIES-Continued

Item	Oka- loosa	Okee- chobee	Palm Beach	Pasco	Pinellas	Put- nam	St. Johns	St. Lucie
eats: MotorOther	Number 29 28	Number 8 27	Number 130 25	Number 14 28	Number 167 294	Number 80 151	Number 77 19	Number 92 40
pparatus: Haul seines—			1		201		1	30
Common Length, yards	14 5, 600				10 4, 150			
Length, yardsGill nets—		6, 400				37, 700		
DriftSquare yards					14 8, 400	38 113, 000	600	
Runaround	712		84 168, 000	28 17, 460	260 451, 760		3,000	126 207, 940
Trammel netsSquare yards	17, 088				2, 250			
Lines— Hand Hooks	56 112				181 283		10 20	
Troll			210 420		86 121			168 168
Trot, with hooks Hooks Pound nets		600		и		36 11, 640		
Fyke netsCast nets		1, 030	15	anne para		37 120		
Otter trawls, shrimp Yards at mouth							85 1, 700	51 740
Pots— Crab————————————————————————————————————			00 55	04,001	1, 285	90		
Sea crawfish Spears Tongs	2						40	
Forks	2			00-05	12		15	
Hooks, sponge Diving outfits					51 55			*******
Item	0,0 100	Santa Rosa	Sara- sota	Semi- nole	Taylor	Volusia	Wa- kulla	Walton
ishermen: On vessels	100	Number	Number	Number	Number	Number 4	Number	Number
On boats and shore— Regular Casual	£ n	12 6	204 35	98	66 45	140 23	167 35	10
Total		18	239	98	111	167	202	10
essels: Motor—					J.	1		Place S
5 to 10 tons 11 to 20 tons						1		
TotalNet tonnage						2 16		
Boats: MotorOtherpparatus:		6 5	101 207	98	16 111	64 65	42 131	2
Haul seines— Common Length, yards	1.35		24 8, 400	20 3, 600		300	1, 200	
Long						1, 200		
Runaround		5	390, 740 10		23, 450	23 17, 250	60, 050 40	
Square yards		2, 200	25, 500				14, 000	1, 500

OPERATING UNITS: BY COUNTIES-Continued

Item	Santa Rosa	Sara- sota	Semi- nole	Taylor	Volusia	Wa- kulla	Walton
Apparatus—Continued.	- Wind	1751291	1/1/19				300
Lines—	Number		Number			Number	Number
Hand		41		85 85	12 24		
Hooks		221		80	24		
Hooks							
					2		
Baits or snoods					800		
Trot, with hooks			98		000		
Hooks			58, 800				
Cast nets			00,000		4		
Otter trawls, shrimp					48		
Yards at mouth		10000000			960	37003500	
Spears.					15003007	100000000	
Tongs. Forks	8				30 15	12	

CATCH: BY COUNTIES

	Bay	у	Breve	ard	Brov	vard	Charl	otte
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish	143, 902	\$2,904	83, 230	\$6, 363	2,000	\$200	93, 025	\$5, 197
Blue runner or hardtail	4, 950		00, 200	40,000	2,000	Ψ200	18, 535	341
Bonito							990	18
Cabio or crab eater							6, 545	
Catfish and bullheads			32,000	1, 280				
Cigarfish	30,000	900		- Ten				
Crevalle			4, 200	126	1,000	50	11,880	221
Croaker			1,500	45			5, 885	
Dolphin					5,000	500	11 11 11 11 11 11	
					0,000	000		
Drum: Black			7, 515	220			440	12
Red or redfish	5, 230	167	43, 585	2, 043			171, 590	
Flounders	3, 850	252		44			32, 230	1, 178
FloundersGroupersGrunts	711, 571	21, 350		**	10,000	300		172
Grunts	,11,0,1	21,000			10,000	000	4, 300	
							2, 600	
Kingfish or "king mackerel"			1,800	90	140,000	8, 100		
King whiting or "kingfish"			10, 100	354	110,000	0, 100	7, 040	
Menhaden	25,000	750	10, 100	001			7,010	102
Mojarro	20,000	,,,,	*******				44, 275	1, 208
Mullet	544 328	18 078	1 370 870	35, 075			3, 762, 776	
Muttonfish	011,020	10, 010	1,010,010	30,010	5,000	750		1, 057
Permit					0,000	100	12, 352	370
Pigfish		*******	4, 189	84			16, 880	
Pinfish or sailors choice			52, 270	895			10,000	300
Pompano	1, 354	246		2, 816			128, 587	23, 146
Porgies	8,800		10, 200	2,010			120,001	20, 140
Sheepshead	. 5,665		69, 698	2, 172			158, 115	5, 885
Snapper: Mangrove	0,000			75			T. Lune	
Red	070 040	00 070	1,500	10			37, 939	1, 140
Snook or sergeantfish	870, 940	69, 678						
			4, 000	160			94, 644	2, 581
Spadefish Spanish mackerel	599 407	200 250	00 000	1 000			46, 306	1,389
	533, 407	20, 350		1,820	500	75		20, 826
Spot			62, 808	1, 592			5, 830	159
Gray	Harris of		220 210	00 707	- 1,570			Bull A
	00 040	1 077	332, 619	22, 787			**********	
Spotted Tenpounder	90,000	4, 374			******		613, 888	43, 044
Tenpounder		2,700					*********	
Tripletail					*******		1, 100	40
Yellowtail			*********				6,600	312
Crabs, hard			39, 000	1, 170			********	
Sea crawfish or spiny lobster			**************************************	********	15,000	3,000	********	
Shrimp	10,000	800	405, 000	16, 200	*******	******		
Oysters:	70 000	F 004	000 - 100			111211111	95 9 9 9	0
Market, public, spring	70, 932						4, 250	375
Market, public, fall	92, 582	8, 169				*******	7, 140	525
Total	3, 214, 857	157, 238	2, 575, 840	95, 411	178, 500	12, 975	5, 821, 442	232, 027

CATCH: By counties-Continued

elling alone v	Cit	rus	Cl	ay	Colli	er	Dac	le
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Amberjack							2, 500	\$100
Black bass			15, 899	\$1,490				
Bluefish	7,85	5 \$286			1,925	\$88	15,000	1,500
Blue runner or hardtail					15, 675		7,000	140
Catfish and bullheads				19, 397				
Cero							5,000	300
Crappie			3,674	239				
Crevalle					1,650	36	5,000	150
Drum:		2895		7				
Black					440	12		
Red or redfish	54, 68	2 1,49	1		90, 640	2, 472	7,000	280
Flounders	68	2 3	7		880	38		
Groupers	2, 25	0 6	8		3, 500	105	30,000	900
Grunts					2, 500	75	7,000	210
Hogfish					400		2,000	100
Jewfish	1 00				400	12	8,000	240
Kingfish or "king mackerel"	1,89	0 10	3		1 050		900, 000	40, 500
King whiting or "kingfish" Mullet	1 150 00	24 50	ī		1,650	30	450 000	0 500
Muttonfish	1, 150, 69	0 34, 52			771, 344	15, 427	450, 000	9,500
Muttonfish					000		100,000	7,000
Permit	66	0	8		880	24 69		
Pigfish	19		8		2,300		9 000	1 000
Pompano	19	0	0		75, 930	15, 186	8,000	1,600 240
Porgies	13, 67	ē	5		106 122	3, 037	8,000	80
Snapper:	15, 07	0 30	0		106, 132	5,057	2,000	80
Mangrove	19 69	2 24	5				2 000	180
	12, 63		0				3, 000 14, 000	
Red Snook or sergeantfish					50, 283	1,371	14,000	1, 120
Spanish mackerel	1, 32	0	2		159, 049	7, 230	900,000	45,000
Snot	118.771	0 1	4		440	8	300, 000	40,000
Squatopmies or "see trout":					440			
Squeteagues or "sea trout": Gray	A CONTRACTOR	100					24 000	2,400
Snotted	131 41	6 10 24	7		79, 838	4,860		2, 100
SpottedSunfish	101, 11	0 10, 21	7 117	914	10,000	1,000		
Tennounder	99 40	61	3 ,,111	211				
TenpounderTripletail	22, 10	-	0		440	12		
Yellowtail		100			4,900	245	40,000	3, 200
Crabs, stone					2,000		103,000	12,800
Sea crawfish or spiny lobster								9,000
Clams, hard, public					645, 528	40, 346		
Oysters:					, , , ,			
Market, public, spring	18, 92	3 1, 27	00					
Market, public, fall	57, 41	0 3,85						J
and the paste, tall-								
Total	1, 476, 78	53, 46	5 471, 398	21, 340	2, 016, 324	90, 962	2, 730, 500	136, 540
Ettle (California	Dia	rie	Duy	al	Escan	nbia	Frank	clin
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
14-17-101-1						700.05 1.0	- 0	Fixel Schele
Amberjack			220	\$11			1,400	\$42
Bluefish		\$96	4,500	450	46, 215	\$1,337	63, 685	2, 252
Blue runner or hardtail		400	2,000		46, 215 25, 931	236	2, 200	40
Cabio or crab eater					314	13		
Catfish and bullheads			69,000	3,450			218, 592	11,086
Crevalle			233	10				
Croaker			3,000	90	2, 200	40		
Drum:								2-
Black			2,500	75	2, 107	57	440	12
Red or redfish	5, 280	192	3,000	190	6, 633	181	29, 585	813
Eels							543	16
Flounders	1,650	90	1, 296	65	1, 556	113	10, 345	652
Groupers					1, 312, 024	39, 353	299, 226	8, 977
Jewfish					2, 095	63	1,800	54
Jewfish					2, 439	44	2 200	90
King whiting or "kingfish"			48,700	1,948	423	8	3, 300	
Menhaden				4 000	202 500	10, 908	7,000	210
Mullet	132, 410	5, 296	97, 833	4, 892	363, 592	10, 908	960, 050	28,801
Pigfish		15		900	10 266	1, 867	1,606	292
Pompano	2, 970	540	1, 133	226	10, 266	282		
		540	1, 133		9, 313	282	6, 000 1, 320	180 36

U. S. BUREAU OF FISHERIES

Fisheries of Florida, 1930-Continued

CATCH: BY COUNTIES-Continued

	Dis	rie	Duy	ral	9	Escan	nbia	Frank	clin
Species	Dawn da	Y/alma	Dounda	Wal		Dounda	Value	Pounds	Value
A. 142	Pounds	value	Pounds	Val	ne 1	Pounds	value	Pounds	value
Shad			262, 875	\$48.	817				Supply of
SheepsheadSnapper, red	5, 060	\$230	1,000		80	4, 423	\$201	2, 183	\$6
Snanner red	0,000	4200	10, 936			, 902, 878		374, 761	30, 081
Snook or sergeantfish			1, 360		136	,,			
Spadefish			1,000		100	62	1	220	
Spanish mackerel	3 740	204	3,000		300	315, 941	9, 479	45, 236	1, 628
Spot	220	6	12, 960		390	80		440	13
Sanataamias or Heas trout!	220	0	12, 000		000	00		110	District St.
Squeteagues or "sea trout": Gray			6, 200		520	66	1		
Chattad	20 100	9.771	26, 809		680	9, 692		74, 380	5, 410
Spotted	38, 108	2, 111	20, 809	2,	000	9, 092	100	3, 041	276
Sturgeon								17 250	49
Tenpounder								17, 359	
Tripletail								2,009	80
Crabś, hardShrimp			48, 400	2,	420	4, 095	117		
Shrimp			1, 145, 714	45,	828	14, 718	1, 472	1, 564, 261	61, 85
Oysters:							1		46
Market, public, spring						62, 492		523, 637	29, 38
Market, public, fall						72,830	6, 435		51, 203
Scallops, bay								3, 975	18
								A 1993	
Total	192, 578	9, 440	1, 794, 669	116,	751 5	, 173, 045	334, 661	4, 734, 171	234, 23
			1	1	-				
	Gl	ades	(Julf		Her	ndry	Hillsbo	rough
Species									
E Pecies					100	100			
	Pounds	s Valu	e Pound	s V	alue	Pounds	Value	Pounds	Value
	-				-	-			
Black bass	155, 9	35 \$14,0				5, 400	\$432		
Bluefish			77, 0	000	\$2,800			220	\$1
Blue runner or hardtail			300, 0	000	6,000				
Catfish and bullheads	1, 191, 3	30 47.6	53			84, 000	3, 360		
Crappie	499.4	10 14.8	02			5, 100			
Crevalle								932	1
Croaker				880	8				
Drum, red or redfish	1		7.7	700	280			36, 803	1, 34
Flounders				350	185			17, 622	96
Groupers				500	100			209, 185	
Grunts								209, 183	0, 20
Grunts. Kingfish or "king mackerel" Menhaden				100	50			31	1111 65
Menhadan			6 102	140					
Mennaden			0, 123,	140	29, 076			E40 000	17 07
Mullet					16, 454			542, 605	
Pompano				102	2, 891			3, 175	
Porgies								1, 200	3
Sheepshead			2,	750	100			21, 233	78
Snapper:						10.00		1 1 1 1 1 1 1	- David
Mangrove								660	
Red								225, 123	
Snook or sergeantfish								24, 585	
Spadefish								33	
Spanish mackerel			248,	094	13, 532	2		1,760	
Spot	-			220				134	
Spot								10.	
Gray		100				1 - 1 - 1		2, 233	
Spotted			34,	585	2, 563	3		136, 373	
Sunfish	102 6	352 3, 1	100	000	2, 000	8, 200	246		10, 10
Tenpounder		0, 1	12,	000	240		240	181	******
				_					1000
Total	1, 950, 3	327 79, 1	599 7, 244,	071	74, 185	102, 700	4, 191	1, 224, 094	56, 28

CATCH: BY COUNTIES-Continued

Species	Indian	River	Jeffe	rson	Lee	9	Lev	У
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
BluefishBlue runner or hardtail	6, 700	\$804	CONTRACTOR OF THE		4, 765 990	\$217 18	89, 133 320, 552	\$3, 245 5, 828
Cabio or crab eater							2, 546	93
Crevalle	9,800	294						June 1911
Croaker Drum:	3, 000	68			1, 650	30	*******	
Black		108					2,640	72
Red or redfish	6, 300	287		\$370	49,665	1, 355		2,091
Eels	600	40						
Flounders					2,035	92	2,970	162
Groupers							8,710	261
Kingfish or "king mackerel"	4,000	240			26, 769	1, 217	208, 103	11, 351
King whiting or "kingfish"	16, 500	570			440	8		
Mullet	300, 669	9,020	171, 050	6, 862	756, 349	25, 744	892, 958	26, 788
Muttonfish	18,000	720					,	,
Pigfish		84			1, 200	36	6011.01.IL	1207000
Pinfish or sailors choice	11,600	232						
Pompano	18, 233	4, 257			17,600	3,520	19, 957	3, 647
Porgies					,	0,020	1,050	21
Sea bass							3, 320	90
Sheepshead	7, 300	292	4, 840	188	64, 361	1,996	40, 979	1, 540
Snapper, mangrove	12, 400	739		36	2,600	96	2, 930	112
Snook or sergeantfish	27,000	1,080		00	20, 582	561	2, 000	112
Spanish mackerel	22, 997	1,610			89, 476	4, 067	79, 294	4, 411
Spot	42,000	1, 260		6	00, 110	1, 001	704	13
Squeteagues or "sea trout":	, 000	2, 200	220				,01	10
Gray	83, 695	8, 370	İ					
Spotted				2, 846	138, 838	7, 819	314, 947	23, 794
Sturgeon			00, 200	-,010	100,000	,, 010	5, 219	949
Yellowtail					1,720	64	0, 210	010
Oxistora					1, 120	0.1		
Market, public, spring					1, 275	112	12, 446	980
Market, public, fall					2, 550	225	15, 773	1, 242
					2,000		10, 110	1, 212
Total	597, 194	30, 075	226, 413	10, 308	1, 182, 865	47, 177	2, 100, 898	86, 690
	Mana	atee	Ma	rtin	Mon	roe	Nass	au
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value

Species	Mana	itee	Ma	rtin	Mon	roe	Nass	au
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish	16, 297	\$1, 131	32, 449	\$4, 543	16, 720	\$900	800	\$80
Blue runner or hardtail	2,090	38		Ψ1, 010	11, 789	214		400
Cabio or crab eater	660	24			11, 100	211		
	000	24			4 050	180		
Cero			15 000		4, 950			
Crevalle	990	18			1, 980	36		
Croaker	1, 320	36	500	15			100	4
Drum:	12 5 10 10 10							
Black	440	12				12		
Red or redfish	135, 918	4, 952	2,000	80	22,770	633		
Flounders	990	54			550	25		150
Groupers	2,500	75			27,000	810		
Grunts	400	12			5,700	171		
Jewfish					8, 800	264		
Kingfish or "king mackerel"	5,720	312	59, 585	2,979		31,012		
King whiting or "kingfish"	0,120	0.12	600		,	,	20, 250	610
Menhaden			000				34, 242, 408	
Mojarro			15, 000	600			01, 212, 100	110,020
Mullet	1, 402, 800	52, 352		10, 939	524, 208	11 884		
	1, 402, 800	32, 332	24, 035			2 636		
Muttonfish		40		1, 920	40, 200	3, 030		
Permit	1, 100				600	18		
Pigfish	1,000	40				20		
Pinfish or sailors choice					440			
Pompano				8, 751		325		
Porgies	800	24			1, 500	45		
Porkfish					600	36		
Shad							14, 301	2, 825
Sharks					2, 187, 500	3, 500		
Sheepshead	64, 790	2, 407	7, 530	452	21, 450	691		
Snapper:		778 53					and the second of	
Mangrove	1,760	64	5,000	300	16, 500	900		
Red	-,			_200110	27,000	2, 160	7,000	490
Snook or sergeantfish	65, 112	1, 887	3,000	180				
Spanish mackerel	209, 981	11, 562			1, 136, 503	42, 255		2111111
Spot	440		8,000	320		32		8

U. S. BUREAU OF FISHERIES

Fisheries of Florida, 1930-Continued

CATCH: By counties-Continued

	Di	xie	Duv	ral	Escan	nbia	Frank	lin
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Shad Sheepshead Snapper, red Snook or sergeantfish		\$230	262, 875 1, 000 10, 936 1, 360	80 1, 093	4, 423 2, 902, 878	\$201 256, 221	2, 183 374, 761	\$65 30, 081
Spadefish Spanish mackerel Spot Squeteagues or "sea trout":	3,740	204	3,000	300	62 315, 941	9, 479 1	220 45, 236 440	1, 625
GraySpottedSturgeon	38, 108	2, 771	6, 200 26, 809	2, 680	9, 692		3,041	5, 410 270
Tenpounder Tripletail Crabs, hard Shrimp			48, 400	2, 420		117	17, 359 2, 009 1, 564, 261	498 80 61, 858
Oysters: Market, public, spring Market, public, fall Scallops, bay								29, 386 51, 200 180
Total	192, 578	9, 440	1, 794, 669	116, 751	5, 173, 045	334, 661	4, 734, 171	234, 23
	G	ades	-	Julf	Her	dry	Hillsbo	rough
Species	Pound	s Valu	e Pound	s Valu	e Pounds	Value	Pounds	Value
Black bass Bluefish Blue runner or hardtail Catfish and bullheads Crappie.	1, 191, 3	30 47, 6 10 14, 8	77, 0 300, 0 353	6, 0	84,000	3, 360 153	220	
Croaker Drum, red or redfish Flounders. Groupers Grunts			7,7	80 00 2 350 1	80		36, 803	96
Kingfish or ''king mackerel''. Menhaden Mullet Pompano Porgies			411, 3	350 16, 4 102 2, 8	976 154 191		542, 605 3, 175 1, 200	59
Sheepshead Snapper: Mangrove							21, 233 660 225, 123 24, 585	18, 01
Spadefish Spanish mackerel Spot Squeteagues or "sea trout":			248, 0	094 13, 5	532		33 1, 760 134	9
Gray	103,	352 3,	109		563 8, 200	246	2, 233 136, 373	10, 10

79, 599 7, 244, 071

74, 185 102, 700 4, 191 1, 224, 094 56, 282

1, 950, 327

CATCH: By COUNTIES—Continued

income potnoid	Indian	River	Jeffe	rson	Lee)	Lev	У
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
BluefishBlue runner or hardtail	6, 700	\$804			4, 765 990	\$217 18	89, 133 320, 552	\$3, 245 5, 828
Cabio or crab eater		004					2, 546	93
Crevalle								
Croaker	3, 000	68			1,650	30		
Drum:	0 000	****	Special Control				0.010	
Black	3,600	108					2, 640	
Red or redfish	6, 300	287	10, 175	\$370	49, 665	1, 355	76, 667	2, 091
Eels	600	40						
Flounders					2, 035	92		162
Groupers							8,710	261
Kingfish or "king mackerel"	4,000				26, 769	1, 217	208, 103	11, 351
King whiting or "kingfish"	16, 500	570			440	- 8		
Mullet	300, 669		171, 050	6, 862	756, 349	25, 744	892, 958	26, 788
Muttonfish	18,000	720						
Pigfish	2,800	84			1, 200	36	001110	
Pinfish or sailors choice	11,600	232						
Pompano		4, 257			17,600	3,520	19, 957	3, 647
Porgies						,	1,050	
Sea bass							3, 320	
Sheepshead	7, 300	292	4, 840	188	64, 361	1, 996		
Snapper, mangrove				36	2, 600	96	2, 930	112
Snook or sergeantfish	27, 000	1, 080		00	20, 582	561	2, 000	
Spanish mackerel	22, 997	1, 610			89, 476	4, 067	79, 294	4, 411
Spanish mackerel	42,000	1, 260		6	00, 110	1, 001	704	13
Squeteagues or "sea trout":	12,000	1, 200	220				101	10
Gray	83, 695	8, 370	i		i			
GraySpotted	00, 000	0,010	39, 138	2, 846	138, 838	7, 819	314, 947	23, 794
Sturgeon			33, 130	2, 040	100, 000	7,019	5, 219	949
Yellowtail					1,720	64	5, 219	949
O	L. drawaren				1, 720	04		
Oysters: Market, public, spring	100			1 - 10	1 975	112	19 440	980
Market, public, fall					1, 275			
Market, public, lall					2, 550	225	15, 773	1, 242
Total	597, 194	30, 075	226, 413	10, 308	1, 182, 865	47, 177	2, 100, 898	86, 690
	Man	atee	Ma	rtin	Mon	roe	Nass	au
Species							-	

Species	Mana	itee	Mai	rtin i	Mon	roe	Nass	au
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish	16, 207	\$1, 131	32, 449	\$4, 543	16, 720	\$900	800	\$80
Blue runner or hardtail	2,090	38		Ψ1, 010	11, 789	214		400
Cabio or crab eater	660	24			11, 705	211		
Cero	000	24			4, 950	180		
Crevalle	990	18	15, 000	600		36		
Croaker		36		15	1, 980	30	100	4
	1, 320	30	500	15			100	4
Drum:	440				440	10		
Black	440	12		15	440	12		
Red or redfish	135, 918	4, 952		80	22,770	633		
Flounders	990	54			550	25		150
Groupers	2, 500	75			27,000	810		
Grunts	400	12			5, 700	171		
Jewfish					8, 800	264		
Kingfish or "king mackerel"	5,720	312	59, 585	2,979	852, 340	31,012		
King whiting or "kingfish"			600	24			20, 250	610
Menhaden							34, 242, 408	145, 920
Mojarro			15,000	600				
Mullet	1, 402, 800	52, 352		10, 939	524, 208	11. 884		
Muttonfish	-,,	02,00	24, 035					
Permit	1, 100	40		2,020	10, 200	0, 000		
Pigfish					600	18		
Pinfish or sailors choice	1,000	10			440			
Pompano		4, 160	35, 004	8, 751				
Porgies	800			0, 101	1, 500	45		
Porkfish		29			600	36		
Shad					600	30		2, 825
					0 107 500	2 500	14, 301	2, 820.
					2, 187, 500	3, 500		
Sheepshead	64, 790	2, 407	7, 530	452	21, 450	691		
Snapper:	1 500			000	10 700	000		10.10
Mangrove	1,760	64	5,000	300		900		
Red					27, 000	2, 160	7,000	490
Snook or sergeantfish	65, 112	1, 887		180				
Spanish mackerel					1, 136, 503			
Spot	440	12	8,000	320	880	32	200	8

CATCH: By counties-Continued

	Mana	tee	Ma	rtin	Mon	roe	Nass	au
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Squeteagues or "sea trout":			1000	1990				contribute
Gray							2, 500	
Spotted			11,762	\$1, 176	46, 156	\$2,663		
Sturgeon							150	34
Tripletail					1, 320	36		
Turbot					900	54		
Yellowtail			******		36, 250	2,850		
Crabs, stone	45,000	3,000			14, 500	1, 160		
Sea crawfish or spiny lobster					180, 000	14, 400		
Shrimp							3, 229, 533	129, 179
Clams:								
Hard, public	9,600	1, 200						
Hard, private							2, 688	840
Conchs					20,000	200		
Oysters:								
Market, public, spring							64, 224	4, 954
Market, public, fall							64, 820	5, 000
Market, private, spring							24, 308	1, 850
Market, private, fall							64, 820	
Turtles, green						1,078		-,
Sponges:					24,000	2, 510		and the same
Grass					20, 908	6,710		
Sheepswool					50, 520	63, 121		
Velvet					682	409		
Wire					490	110		
Yellow					29, 814	7, 372		
Total	2, 177, 457	97, 257	584, 582	32, 897	5, 341, 892	199, 922	37, 756, 202	298, 697

2.3.	Okal	oosa	Okeed	hobee	Palm I	Beach	Pa	sco
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
AmberjackBlack bass	100	\$4	56 166	\$4, 493				
BluefishBlue runner or hardtail	28, 861 18, 400	866 184			226, 000 10, 000			
Bonito Catfish and bullheads Cigarfish		852	567, 200	22, 768				
CrappieCrevalle			143, 464	4, 304	10, 000			
Croaker Drum:					2,000			
Black Red or redfish Flounders	6, 344	302			1,000	50	20, 350	555
Groupers	51, 847	1, 555			5, 000	400		
Kingfish or "king mackerel" King whiting or "kingfish"	1, 500 500	30 10			655, 000 3, 000			
Menhaden Mojarro Mullet	16, 322 236, 703				2, 000 14, 000		500, 752	15, 023
Muttonfish Pompano	11, 269	2, 254			7, 000 16, 500	360		
Porgies Sheepshead Snapper:					1,000	40	880	32
MangroveRed		2, 761			1, 500	75	7, 150	260
Snook or sergeantfish	400	8			2, 000	80		
Spanish mackerelSpotSqueteagues or "sea trout":	160, 574 900	4, 817			650, 000	39, 000	4, 950	225
GraySpotted	23, 542	1, 727			1, 500			1, 279
Sunfish Tenpounder Oysters, market, public, fall	32, 180 5, 100	965 450	47, 375	1, 421				
Total	682, 359	25, 496	814, 205	32, 986	1, 607, 500	96, 175	553, 428	17, 470

CATCH: BY COUNTIES-Continued

243		Pounds 365, 732	Value	Pou	nds	Value	Pounds	Value
109, 826		365, 732						· drae
109, 826			\$5, 486					
243	6, 463							
243	6, 463	97, 286	10, 925					
242				4	, 350	\$435	25, 000	\$2,750
242							5, 000	100
	1		00 110					
		241 128	14 510					
1 171	2	211, 120	14, 010				20,000	400
2, 1, 1	2.			0.00				
That	distribution of			1			1.500	re-lines
							10,000	200
57, 022	1, 742				160	6	15, 000	300
		16,000	800					
8, 754	392			4	, 800	197		
379, 742	11, 390							
146	The state of							
1 055		29, 616	888					
101 200	5 50				000	1 000	500 000	25, 000
101, 208	0, 525			24	250		10,000	300
					, 200	31	20,000	600
2 127 345	64.893	5.278	211	0	500	475	20, 000	000
3, 410	93	0,2.0			, 000	1,0		
				10	0.000	300		
				3	, 200	640	40,000	8,000
2, 500	78							
		306, 156	41, 692	1	, 400			
27, 683	1, 085			1 5	5, 540	322	30, 000	1, 200
0.17	000	WILLIAM I		1 30	- 1			
8, 170	45 21					900		
15 621	40, 31			4	, 094	209	40,000	1,600
10, 031	420						40, 000	1,000
302 005	20 300				640	64	425 000	25, 500
440	19				010	01	120, 000	20,000
la la la la la la la la la la la la la l	1000							0.000
8, 767	259						15,000	1, 200
316, 633	24, 136	3		26	6, 050	2,600		
		249, 839	7, 513					
7, 150	198							
145, 050	9, 670)				001		
				E 740	, 309	990 740	0.070.450	63, 898
1 919	79			0, 140	159	770	2, 212, 450	05, 595
4,040	121			, ,	, 102	110		
			121 -13		972	60	10.371	1, 120
				2			10, 195	1, 155
15, 295	1, 657						-,	,
					406	83		
		11, 578	235					
00.011	10.00		To the second			TOWN A	175 mgt	
02, 010	19, 846							
2 201	1 021							
61 341	35 583							
01,01	00, 000							
4, 793, 081	1, 053, 187	2, 706, 617	148, 417	5, 847	, 592	238, 737	3, 451, 016	133, 383
Sa	nta Rosa	Sa	rasota		Ser	minole	Tay	lor
Pour	nds Valu	ie Pound	is Val	ue P	ound	s Value	Pounds	Value
4 4 (87)	11 18T P		000 45	070			0.103	40.4
		25, 9,	839 \$1, 240	252	00.00	0 \$15.00		\$312
				24 70				
	242 1, 171 462 57, 022 8, 754 379, 742 146 1, 655 101, 268 2, 127, 345 3, 410 27, 272 2, 500 27, 683 8, 170 566, 454 15, 631 392, 095 440 8, 767 316, 633 7, 156 145, 050 4, 848 15, 295 62, 010 319, 945 3, 291 61, 341 4, 793, 081	243 242 343 242 343 242 345 340 341 341 342 342 343 3442 344 3443 3443	243	243	243	243	243	243

1, 100 79, 564 4, 125 6, 527

3, 520 9, 262

\$160

840

Black Red or redfish

Flounders....

Groupers....

22

182

196

2, 195

32, 395 1, 650

1, 178

90

CATCH: BY COUNTIES-Continued

trained make the	Santa Rosa		Sarasota		Seminole		Taylor	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Grunts		Toronto.	1, 800	\$54				isolanis.
Kingfish or "king mackerel"			165, 231	12, 017				
Mullet	143 800	\$4 314		45, 657			360, 100	\$14.404
Permit			550	15			000, 200	111, 10.
Pigfish				217			CO. BUSINESS	
Pompano				17, 348			4, 180	760
Porgies			900	27			2, 200	and the tark
Shad			500	2,	295 000	\$35, 400		
Sheepshead		20	170, 147	4, 749		φου, 100	15, 950	725
Snapper, mangrove			3, 388	93			3, 300	
Snook or sergeantfish			19, 912	543				1017
Spadefish								
Spanish mackerel			269, 958				2,640	120
Spot			550	15, 052			990	20
Squeteagues or "sea trout":			000	10			550	
Spotted	4, 180	380	169, 217	12 208			108, 446	7, 587
Clams, hard, public	1, 100	000	1, 760	264			100, 110	1,001
Ovsters:			1, 100	201				
Market, public, spring	7, 208	636						
Market, public, fall						1000		
Scallops, bay		1, 110	2, 597	204				7
coanops, bay			2, 001	201				
Total	181, 670	7, 520	2, 555, 024	118 079	505 000	50 400	538, 231	25, 286

	Volu	sia	Wakı	ılla	Wal	ton
Species	Pounds	Value	Pounds	Value	Pounds	Value
Black bass	2, 400	\$240		7.70		STATE OF THE PARTY
Blue fish	400	40	14, 960	\$408		
Catfish and bullheads	56,000	2,800	1, 000	00		
Crappie	6, 200	372		11011 29	20101010	
Crevalle	5, 200	156				
Croaker	1, 200	36	2, 935	53		
Drum:			and the state of			
Black	1,800	45				
Red or redfish	7, 816	292	33, 137			
Flounders	200	8	330	9		
King whiting or "kingfish"	26, 500	810			880	
Mullet	281, 800	8, 754	1, 750, 729	52, 522	90, 400	2, 712
Pigfish Pinfish or sailors choice	20, 466	409				
	3, 740 400	77 80			55	12
Pompano Sheepshead	1, 100	80 44	11 100	421		
Snapper, mangrove	400	24	11, 100	421	1, 520	00
Spot		120				COLONICA
Squeteagues or "sea trout":	4, 100	120				
Gray	122, 620	7, 387				
Spotted	122, 020	1,001	155, 502	11. 309	11, 275	820
Sunfish	18,000	540			,	
Crabs, hard		396				
Shrimp	2, 463, 400	86, 536				
Clams:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1			194 1913	
Hard, public	22,000	1, 225				
Hard, private	21,000	1,050				
Oysters:	Control of	CATTON TO				
Market, public, spring	5, 618	607	7,820			
Market, public, fall		957				
Market, private, spring	11, 237	1, 213				
Market, private, fall	14, 478	1, 563				
Total	3, 126, 734	115, 781	1, 988, 128	66, 797	105, 745	3, 715

CATCH: BY DISTRICTS

	East C	Coast	West	Coast	Lake Oke	echobee
Species	Pounds	Value	Pounds	Value	Pounds	Value
AlewivesAmberjack	365, 732 2, 720	\$5, 486 111	18, 500	\$556		
Black bass	115, 585	12, 655	************		217, 501	
Bluefish Blue runner	400, 429 22, 000	35, 465 440	753, 118 732, 245	30, 489 13, 560		
Bonito	22,000	110	1, 190	24		
Cabio			10, 307	437		
Catfish and bullheads	2, 285, 109 5, 000	108, 045 300	218, 592 4, 950	11, 086 180	1, 842, 530	73, 78
Cigarfish	5,000	300	58, 412	1,752		
Crappie	251, 002	15, 130			647, 974	19, 259
Crevalle	70, 433 14, 300	2, 086	19, 923	373 357		
Dolphin	5, 000	378 500	18, 720	337		
Drum:						
Black	25, 915	663	8, 709	230		
Red or redfish	86, 564 16, 600	3, 561 840	937, 320 543	30, 472 16		
Flounders	10, 996	464	108, 615	5, 788		
Groupers	45, 000	1,600	3, 019, 802	90, 594		
Grunts	7,000	210 888	14, 883	447		
Hickory shad	29, 616 2, 000	100				
Jewfish	8,000	240	18, 050	542		
Kingfish or "king mackerel" King whiting or "kingfish"	2, 282, 385	111, 639	1, 403, 480	63, 367		
Menhaden	138, 900 34, 242, 408	4, 803 145, 920	14, 233 6, 171, 762	362 30, 526		
Mojarro	37, 000	1, 300	44, 275	1, 208		
Mullet	2, 903, 567	79, 566	19, 118, 239	589, 902		~
Muttonfish	154, 035	10, 753	71, 004	4, 693		
Pigfish	27, 455	577	14, 882 34, 700	449 1, 024		
Pinfish or sailors choice	27, 455 77, 610	1, 504	440	20		
Pompano	135, 726	29, 920	437, 627	81, 796		
Porgies	8,000	240	47, 033 600	1, 403		
Sea bass	44, 000	3,080	4,640	126		
Shad	879, 732	129, 014	***********			
SharksSheepshead	125, 168	4, 682	2, 187, 500 746, 965	3, 500 25, 086		
Snapper:	120, 100	1,002	740, 500	20, 000		
Mangrove	23, 800	1, 393	98, 020	3, 454		
Red or redfish Snook or sergeantfish	34, 030 77, 360	2, 912 3, 236	5, 001, 672 290, 749	424, 228 8, 039		
Spadefish	77,000		48, 561	1, 445		
Spanish mackerel	2, 028, 137	113, 369	48, 561 4, 112, 080	180, 806		
Spot	130, 068	3, 690	12, 488	322		
Squeteagues or "sea trout": Gray	588, 134	43, 034	11,066	321		
Spotted	79, 621	7, 956	2, 710, 945	194, 585		
SturgeonSunfish	274, 956	8, 267	8, 260	1, 225	159, 227	4, 776
Tenpounder	211, 550	0, 201	181, 361	5, 213	100, 227	
Tripletail			4, 869	168		
TurbotYellowtail	40,000	2 200	900	2 471		
Crabs:	40,000	3, 200	49, 470	3, 471		
Hard	107, 200	3, 986	4, 095	117		
Stone.	103, 000	12, 800	204, 550	13, 830		
Sea crawfish or spiny lobsterShrimp	108, 309 15, 259, 597	12, 331 571, 381	180, 000 1, 588, 979	14, 400 64, 125	********	
Clams:	and the latest to the	derecht L.	1,000,070	01, 120		
Hard, public	26, 152	2,003	661, 736	42, 537		
Hard, private	23, 688	1,890	20,000	200		
Oysters:						
Market, public, spring	81, 185	6, 741	708, 983	44, 727		
Market, public, fall Market, private, spring	86, 143 35, 545	7, 252 3, 063	792, 099	73, 852		
Market, private, fall	79, 298	6, 563				
Scallops, bay			21, 867	2, 139		
Terrapin, diamond-back Turtles:	406	83				
Green			21, 550	1,078		
Soft-shell	11,578	235				

CATCH: BY DISTRICTS-Continued

West-Court Louis Community	East	Coast	West	Coast	Lake Okeechobee		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
Sponges: Grass			82, 918 370, 465 682 3, 781 91, 155	\$26, 556 858, 699 409 2, 041 42, 955			
Total	64, 023, 344	\$1, 527, 579	53, 524, 560	3, 001, 397	2, 867, 232	\$116,776	

Industries related to the fisheries of Florida, 1930

TRANSPORTING

Item	Char- lotte County	Collier County	Escam- bia County	1,496	Levy County	Nassau County	Monroe County	Pinellas County	Total
Persons engaged: On vessels On boats	Number 17	Number 2	Number 2	Number 8	Number 2	Number 1	Number 13	Number 7 46	Number 51 47
Total	17	2	2	8	2	1	13	53	98
Vessels:	2 3 1 6 107	1 16	1 1 1 12	3 1 4 69	2 2 16		1 4 1 1 7 124	2 1 3 35	7 12 3 2 24 379
Sail— 5 to 10 tons 11 to 20 tons							1	1 1	1 2
Total Net tonnage							1 16	2 25	3 41
Total vessels Total net tonnage.	6 107	1 16	1 12	4 69	2 16		8 140	5 60	27 420
Boats						3		38	41

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Bay County	Bre- vard and Indian River Coun- ties	Charlotte, Lee, and Collier Counties	Citrus and Pasco Coun- ties	Clay County	Dade County	Duval County	Escambia and Okaloosa Counties
Establishments	10	13	8	8	3	9	13	4
Proprietors	10 3	14 3	12 9	10	4	11 5	17 18	5 9
Average for season Average for year	19 17	27 13	59 54	28 16	6 6	18 18	158 88	37 37
Paid to salaried employeesPaid to wage earners	\$5, 700 13, 092	\$2,720 9,610	\$31, 952 45, 856	\$7,740	\$3, 280	\$12, 520 24, 240	\$83, 146 79, 404	\$40, 992 31, 597
Total salaries and wages	18, 792	12, 330	77, 808	7, 740	3, 280	36, 760	162, 550	72, 589

Industries related to the fisheries of Florida, 1930—Continued

WHOLESALE AND MANUFACTURING-Continued

OPERATING UNITS, SALARIES, AND WAGES-Continued

Item	Frank- lin County	Gulf County	Glades, Okee- chobee, and Hen- dry Coun- ties	Hills- bor- ough County	Levy and Dixie Coun- ties	Taylor and Wa- kulla Coun- ties	Mana- tee County	Mon- roe County
Establishments	21	4	6	6	7	4	7	12
Persons engaged: Proprietors. Salaried employees. Wage earners—	24 13	4 3	6 3	8 3	9 2	6	11	11 6
Average for season Average for year	465 150	42 23	14 12	7 7	16 16	7 7	9 8	52 37
Paid to salaried employeesPaid to wage earners	\$24, 320 69, 093	\$9,000 17,415	\$3, 560 7, 240	\$5, 844 4, 910	\$2,400 8,834	\$4, 510	\$6, 160 5, 890	\$15, 240 34, 858
Total salaries and wages	93, 413	26, 415	10, 800	10, 754	11, 234	4, 510	12, 050	50, 098
Item	Nassau County	Palm Beach County	Pi- nellas County	Put- nam and St. Johns Coun- ties	Sara- sota County	St. Lucie County	Volusia and Semi- nole Coun- ties	Total
Establishments	7	12	25	16	3	11	14	223
Persons engaged: Proprietors Salaried employees Wage earners—	11 6	20 4	39 5	15 7	3 2	13	16	279 104
Average for season Average for year		15 15	77 53	282 63	10 10	42 22	11 8	1, 812 857
Paid to salaried employeesPaid to wage earners	\$30, 086 95, 375	\$4, 100 12, 380	\$31, 572 35, 651	\$10, 568 28, 099	\$2,900 7,646	\$5, 100 15, 250	\$4,748	\$327, 880 566, 718
Total salaries and wages	125, 461	16, 480	67, 223	38, 667	10, 546	20, 350	4, 748	894, 598

PRODUCTS MANUFACTURED

Item	Quantity	Value
Menhaden products:		Li salah
Acid scraptons_	2, 782	\$71, 250
Dry scrapdo	4, 736	230, 241
Meal do	7, 142	368, 637
Oil gallons	481, 948	94, 064
	401, 340	34, 004
Mullet: Dry-saltedpounds_	370, 067	19, 199
Roe, salteddo	29, 684	7, 920
Spanish mackerel, dry-salteddodo	70, 100	5, 155
Shrimp, cannedstandard cases	69, 372	491, 231
Oysters, fresh-shuckedgallons	134, 731	203, 327
Unclassified products:	m 11 10 1	
Fresh and frozen fillets 1pounds	79, 499	16, 626
Fresh and frozen steaks and sticks 2do	163, 428	22, 049
Other fresh packaged and salted 3	(4)	4,670
Canned 5	(4)	228, 322
By-products 6	(4)	233, 060
Dy Plotters		200, 000
Total	oternila	1, 995, 751
AND THE RESIDENCE OF THE PARTY	1 (1.7)	

Includes fresh fillets of snook, groupers, and red snapper; frozen fillets of amberjack, bluefish, flounders, groupers, mullet, Spanish mackerel, and red snapper.
 Includes fresh and frozen amberjack, grouper, and red snapper steaks; and frozen red snapper fish sticks.
 Includes fresh-cooked crab meat; fresh-shucked hard clams, conchs and bay scallops; and salted bluefish.

⁴ Data not available.

⁵ Includes canned hard clam products, oysters, and green turtle meat and soup. ⁶ Includes oyster-shell products; shark hides, fins, teeth, and oil; fish scrap; shrimp meal; and novelties made from shells and fish scales.

Industries related to the fisheries of Florida, 1930—Continued FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 240]

Item	Quantity	Value
Mullet: Dry-salted pounds Roe, dry-salted do sturgeon roe, fresh do Crab meat, packaged (fresh-cooked) do do Oysters, fresh-shucked gallons Seallops, bay, fresh-shucked do	471, 600 43, 200 10 600 6, 143 2, 247	\$23, 49 10, 80 21 8, 54 3, 21
Total.		46, 27

NOTE.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State, Of the total number of persons employed on transporting craft, 47 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 228 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Sponge fishery of Florida, 1930

OPERATING UNITS: BY GEAR

Item	Sponge hooks	Diving outfits	Total
Fishermen on boats and shore, regularBoats:	Number 334	Number 412 55	Number 746
Other. Apparatus.	283 283	55	283

CATCH: BY GEAR

Character	Sponge	Sponge hooks Diving outfits		Total		
Sponges	Pounds	Value	Pounds	Value	Pounds	Value
Grass Sheepswool Velvet	76, 718 98, 513 682	\$24, 572 182, 458 409	6, 200 271, 952	\$1, 984 676, 241	82, 918 370, 465 682	\$26, 556 858, 699 409
WireYellow	490 39, 015	110 12, 709	3, 291 52, 140	1, 931 30, 246	3, 781 91, 155	2, 041 42, 955
Total	215, 418	220, 258	333, 583	710, 402	549, 001	930, 660

SPONGES SOLD AT THE EXCHANGE, TARPON SPRINGS, FLA.

During 1931 sponges handled on the exchange at Tarpon Springs, Fla., amounted to 372,771 pounds, valued at \$609,773. This is a decrease of 10 per cent in quantity and 24 per cent in value as compared with the quantity and value of the transactions on the exchange during 1930. A large part of this decrease may be attributed to the fact that there was an unusually large hold over on January 1, 1932.

It is estimated that the value of sponges sold outside the exchange during 1931 amounted to \$40,000. Of the total sponges sold on the exchange in 1931, 168,820 pounds, valued at \$522,156, were large wool; 30,837 pounds, valued at \$24,670, were small wool; 97,742 pounds, valued at \$39,096, were yellow; 62,982 pounds, valued at \$18,895, were grass; and 12,390 pounds, valued at \$4,956, were wire sponges.

ALABAMA

Fisheries of Alabama, 1930

OPERATING UNITS: BY GEAR

				Lines				
Item	Haul seines		Hand	Troll	Trot, with baits or snoods	Trot, with hooks		
Fishermen: On vessels	Number 6	Number 16	Number 96	Number	Number	Number		
On boats and shore— Regular Casual	39	84 4	32 21	4	5 9	34		
Total	45	104	149	4	14	34		
Vessels, motor: 5 to 10 tons 11 to 20 tons 61 to 70 tons	1 108 to 1	14	3 7 1					
TotalNet tonnage	1 9	4 32	11 186					
Boats: Motor Other Accessory boats	11 3 1	32 77 12	6 14	2	14	4 34		
Apparatus: Number. Length, yards. Square yards. Hooks, baits, or snoods.		84 28, 692	149 	2	2, 475	177		
Item	Fyke nets	Otter trawls, shrimp	Spears	Tongs	By hand	Total, exclu- sive of duplica- tion		
Fishermen: On vessels	Number	Number 30	Number	Number	Number	Number 142		
On boats and shore— Regular Casual	29	246	4 17	112 4	14 18	469 55		
Total	29	276	21	116	32	666		
Vessels, motor: 5 to 10 tons. 11 to 20 tons. 61 to 70 tons.		14				21 8 1		
Total. Net tonnage		15 117				30 335		
Boats: Motor Other Accessory boats	4 29	123		47 41		185 183 13		
Apparatus: Number Yards at mouth	119	138 1, 800	21	116				

Fisheries of Alabama, 1930—Continued CATCH: BY GEAR

						1	Lines		
Species	Haul	seines	Tramm	el nets	н	and	T	Tr	oll
Director	Pounds 12,749	Value \$558	Pounds 7,905	Value \$368	Pounds	Val	us Pe	ounds	Value
Bluefish Bluerunner or hardtail	2, 205	63	1, 900	\$000					
Cabio								2, 200	\$10
Catfish and bullheads	1, 105 2, 558	51	9, 644	474	1, 37	\$1	.00		
Croaker	2, 403	70 78	4, 940	165	10		4		
Drum:			1000				-		14.10
Black Red or redfish	6, 796	335	4, 787	229	4, 08		5		
Red or redish	44, 733	3, 012	55, 520 11, 233	2, 884 783	4,00		11		*****
Groupers			11, 400		177, 94	5, 3	38		
Tewfish					5, 02	1	51		
King whiting or "kingfish"	2, 520 757, 220	95 29, 332	2,838	56, 675	440)	16	*****	
Mullet Pompano	171	33	1, 448, 158	757				*****	
Sheepshead, salt-water	8,552	499	4, 891 7, 741	420	1, 276	3	69		
Snapper, red				******	847, 91	67,8	33		*****
Spadefish	404	*******	110	3					
Spanish mackerel	484 635	48 21	5, 324 926	290 45	*******			*****	******
Squeteagues or "sea trout":	000		320	10					
Gray	207	10	5, 940	216	440		20		
Spotted	13, 769	1, 157	86, 374	6,578	5, 83	5 5	33		
Sturgeon Tenpounder	1,816 5,369	297 215							
Tripletail	0,000		55	2	220)	11		
						-			-
Total	863, 292	35, 874	1, 656, 386	69, 977	1, 044, 76	74, 2	391 :	2, 200	100
		Lines-	Continued				has		
Species		Lines—	T	with	Fyke	nets		ter tr shrin	
Ruffalofish	Pound	vith bait	s Trot,	with	Fyke Pounds 39, 679 30, 352	Value \$2, 164 2, 111		shrin	
Buffalofish Catfish and bullheads Paddlefish	Pound	vith bait noods	Pounds 61, 176 48, 428 2, 251	with oks	Pounds 39, 679	Value \$2, 164		shrin	р
Buffalofish Catfish and bullheads Paddlefish Crabs, hard	Pound 79, 968	vith bait noods	Pounds 61, 176 48, 428 2, 251	with oks Value \$3,339 3,265	Pounds 39, 679	Value \$2, 164	Pou	nds	Value
Buffalofish Catfish and bullheads Paddlefish	Pound 79, 968	vith bait noods	Pounds 61, 176 48, 428 2, 251	with oks Value \$3,339 3,265	Pounds 39, 679	Value \$2, 164		nds	р
Buffalofish Catfish and bullheads Paddlefish Crabs, hard	Pound 79, 968	vith bait noods **Value** \$1,142	Pounds 61, 176 48, 428 2, 251	with oks Value \$3,339 3,265	Pounds 39, 679	Value \$2, 164	Pou	nds 200	Value 897, 21
Buffalofish Catfish and bullheads Paddlefish Crabs, hard Shrimp	or s Pound 79, 968	vith bait noods **Note that the state of th	Pounds 61, 176 48, 428 2, 251	with oks Value \$3, 339 3, 265 125	Pounds 39, 679 30, 352	Value \$2, 164 2, 111	Pou 2, 982, 2, 982,	nds 200	Value \$97, 219
Buffalofish Catfish and bullheads Paddlefish Crabs, hard Shrimp Total	or s Pound 79, 968	vith bait noods Solution Value \$1,142 1,142	Founds 61,176 48,428 2,251 111,855	with sks Value \$3, 339 3, 265 125 6, 729	Pounds 39, 679 30, 352 70, 031	Value \$2, 164 2, 111 4, 275	Pou 2, 982, 2, 982, B	nds 200 200 sy har	Value \$97, 21 97, 21
Buffalofish Catfish and bullheads Paddlefish Crabs, hard Shrimp Total Species	or s Pound 79, 968	vith bait noods **Note that the state of th	S Trot, hoo 61,176 48, 428 2,251 111,855	with oks Value \$3, 339 3, 265 125 6, 729	Pounds 39, 679 30, 352 70, 031	Value \$2, 164 2, 111	Pour 2, 982, 2, 982, B	nds 200 200 sy har	Value \$97, 21 97, 21
Buffalofish	or s Pound 79,968	s Value \$1,142 1,142 S Pounds Pounds	S Trot, hoo Pounds 61, 176 48, 428 2, 251 111, 855	with oks Value \$3, 339 3, 265 125 6, 729	Pounds 39, 679 30, 252 70, 031 Tongs	Value \$2, 164 2, 111 4, 275	Pour 2, 982, 2, 982, B	nds 200 200 sy har	Value \$97, 21 97, 21
Buffalofish Catfish and bullheads Paddlefish Crabs, hard Shrimp Total Species Flounders Crabs, soft	or s Pound 79,968	s Value \$1,142 1,142 S Pounds Pounds	S Trot, hoo Pounds 61, 176 48, 428 2, 251 111, 855	with oks Value \$3, 339 3, 265 125 6, 729	Pounds 39, 679 30, 252 70, 031 Tongs	Value \$2, 164 2, 111 4, 275	Pour 2, 982, 2, 982, B	nds 200 200 sy har	Value \$97, 21 97, 21
Buffalofish Catfish and bullheads Paddlefish Crabs, hard Shrimp Total Species Flounders Crabs, soft Oysters: Market, public, spring Market, public, fall	or s Pound . 79, 968 . 79, 968	\$1,142 \$1,142 S. Pound: 12,94	Pounds 61, 176 48, 428 2, 251 2 111, 855 pears Value 7 \$1, 17	with oks Value \$3, 339 3, 265 125 6, 729 Pour 7 40, 225,	Pounds 39, 679 30, 252 70, 031 Tongs 144 \$3 506 17	Value \$2, 164 2, 111 4, 275	Pour 2, 982, 2, 982, B	nds 200 200 sy har	Value \$97, 21 97, 21
Buffalofish Catfish and bullheads Paddlefish Crabs, hard Shrimp Total. Species Flounders Crabs, soft Oysters: Market, public, spring Market, private, spring Market, private, spring Market, private, spring	or s Pound 79, 968 79, 968	\$1,142 \$1,142 S. Pound: 12,94	Pounds 61, 176 48, 428 2, 251 2 111, 855 pears Value 7 \$1, 17	with oks Value \$3, 339 3, 265 125 6, 729 Pour 7 40, 225, 4.	Pounds 39, 679 30, 352 70, 031 Tongs 144 \$33 506 17 0080	Value \$2, 164 2, 111 4, 275	Pour 2, 982, 2, 982, B	shrin nds 200 200 200 sy har	Value \$97, 21 97, 21 ad Value \$19
Buffalofish	or s Pound 79, 968 79, 968	\$1,142 \$1,142 S. Pound: 12,94	S Trot, hoo e Pounds 61, 176 48, 428 2, 251 111, 855	with oks Value \$3, 339 3, 265 125 6, 729 Pour 7 40, 225, 4.	Pounds 39, 679 30, 252 70, 031 Tongs 144 \$3 506 17 080	Value \$2, 164 2, 111 4, 275 lue -, 755 -, 723 -, 480	Pour 2, 982, 2, 982, B	shrin nds 200 200 200 sy har	Value \$97, 219 97, 219

Item	Baldwin	Mobile
Fishermen: On vessels On boats and shore—	Number 6	Number 136
Regular Casual	68 14	401 41
Total	88	578

Fisheries of Alabama, 1930—Continued OPERATING UNITS: BY COUNTIES—Continued

Item	Baldwin	Mobile
Vessels, motor: 5 to 10 tons 11 to 20 tons 61 to 70 tons	Number 2	Number 19 8
Total Net tonnage	2 16	28 319
Boats: Motor Other. Accessory boats. Apparatus: Haul seines Length, yards. Trammel nets Square yards.	26 43 2 1 500 36 13, 285	159 140 11 7 5, 400 48 15, 407
Lines—	9 9 2 2 2 400 7 90 7 19	140 262

CATCH: BY COUNTIES

201 78	Baldy	win	Mobile	9 .
Species	Pounds	Value	Pounds	Value
Bluefish	9, 398 825	\$365 22	11, 256 1, 380 100, 855	\$561 41 5, 503
Cabio Catfish and bullheads	2, 200 9, 193	100 481	81, 711	5, 520
CrevalleCroaker	330	9 96	2, 228 4, 570	61 151
Drum: Black Red or redfish Flounders. Groupers.	5, 390	60 1,518 385	10, 375 73, 660 18, 790 177, 945	509 4, 589 1, 578 5, 338
Jewfish King whiting or "kingfish" Mullet Paddlefish	1, 650 716, 461	45 28, 425	5, 021 4, 148 1, 488, 917 2, 251	151 154 57, 582 125
Pompano Sheepshead, salt water Snapper, red	3, 740	662 204	1, 001 13, 829 847, 918	128 784 67, 833
SpadefishSpanish mackerel	4, 444	242	110 1, 364	96
Spot Squeteagues or "sea trout": Gray	1, 012	47	549 6, 587	19 246
SpottedSturgeon	32, 009 1, 816	2, 405 297	73, 972	5, 863
Tenpounder Tripletail Crabs:	55	2	5, 369 220	215 11
HardSoft			79, 968 780	1, 142 195
Shrimp Oysters: Market, public, spring	168, 400	5, 490	2, 813, 800	91, 729
Market, public, spring Market, public, fall Market, private, spring	3, 570 10, 761	315 949	36, 574 214, 745 4, 080	3, 440 16, 774 480
Market, private, fall. Terrapin, diamond-back	17, 064 1, 142	1, 896 416	876	219
Total	1, 028, 390	44, 431	6, 084, 849	271, 037

Industries related to the fisheries of Alabama, 1930

TRANSPORTING

Item	Baldwin County	Mobile County	Total
Persons engaged: On vessels On boats	Number 6	Number 6 18	Number 12 18
Total	6	24	30
Vessels, motor: 5 to 10 tons	2 1	3	5
Total Net tonnage	3 33	3 22	6 55
Boats		3	3

WHOLESALE AND MANUFACTURING IN BALDWIN AND MOBILE COUNTIES

OPERATING UNITS, SALARIES, AND WAGES

Establishments	21
Persons engaged: Proprietors Salaried employees	31 16
Wage earners— Average for season Average for year	492 218
Paid to salaried employeesPaid to wage earners	\$52, 105 86, 135
Total salaries and wages	138, 240

PRODUCTS MANUFACTURED

Item	Quantity	Value
Mullet, dry-salted pounds. Shrimp, canned standard cases. Oysters, fresh-shucked gallons. Miscellaneous 1	45, 000 43, 942 15, 209 (2)	\$2, 450 246, 768 18, 295 62, 477
Total		329, 990

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 46]

Sturgeon roe, freshpounds	32	\$19
Oysters, fresh-shuckedgallons	7, 259	7, 680
Total		7, 699

¹ Includes frozen red snapper fillets; salted mullet roe; cooked shrimp; canned oysters; dry shrimp hulls; and oyster-shell products.

² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 18 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 42 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries or during in the fishery industries or during in the fishery industries or during its first of the state been included as fishermen. These facts should b in the fishery industries exclusive of dup ication.

MISSISSIPPI

Fisheries of Mississippi, 1930

OPERATING UNITS: BY GEAR

stant at the latest at the stan	MONT .	elemen Ima	Li	nes	PHILLS.	Myster	
Item	Haul seines	Trammel nets	Hand	Trot, with baits or snoods	Dip nets, drop	Cast nets	
Fishermen: On vessels	Number	Number	Number 16	Number	Number	Number	
On boats and shore— Regular————————————————————————————————————	272	96 6	37 114	54 12	2 32	54	
Total	272	102	167	66	34	54	
Vessels:	00.4		1	e sette		FINITE TO	
Total Net tonnage			2 25		a weller d		
Boats: Motor Other Apparatus: Number Length, yards Square yards Hooks, baits, or snoods	45 30 45 9, 220	34 51 55 17, 785	15 104 167	9 60 66 20, 795	1 14 232	54	
				20,100			
Item	Otter trawls, shrimp	Spears	Dredges, oyster	Tongs	By hand	Total, exclusive of dupli- cation	
Fishermen: On vessels On boats and shore—	Number 225	Number	Number 530	Number	Number	Number 555	
Regular	598 9	8 68	380	440	31	1, 358 193	
Total	832	76	910	440	31	2, 103	
Vessels:	35 26 3		41 67 10 1			44 69 11	
TotalNet tonnage	64 711		119 1, 600			128 1, 678	
Sail— 5 to 10 tons 11 to 20 tons			1 4				
TotalNet tonnage			5 66			66	
Total vessels	64 711		124 1, 666			130	
Boats: Motor	408		95	30 406		40.	
Number Yards at mouth	363 4, 607	76	437 443	440			

Fisheries of Mississippi, 1930—Continued

CATCH: BY GEAR

					-	Lir	ies		
Species		Haul seines		Trammel nets		and	Trot, with baits or snoods		
po bilisti - Lin	Pounds	Value	Pounds	Valu		Value	Pounds	Value	
Bluefish			19, 191	\$1,04	7 14, 969	\$680			
Buffalofish Cabio or crab eater			1, 100		0 737	38			
Catfish and bullheads			38, 146	1,73		1,058			
Crevalle			9, 847	26	9 110	3			
Croaker			6, 105	22	5, 170	176			
Drum:							Lossen O		
Black			19, 270	90		71 494			
Red or redfish			112, 972	6, 22		494			
FloundersGroupers			31, 886	2, 09	71, 093	2, 133			
Townfish					1, 274	38			
Groupers Jewfish King whiting or ''kingfish'' Mullet			5, 604	18	3				
Mullet			790, 735	31, 62					
Pompano			791	22					
Sheepshead, salt-water			28, 509	1,62	25 1,568	86			
Snapper, red			1 007		188, 725	15, 875 17			
Spanish mackerel			1, 027	1	1 328	11			
Squeteagues or "sea trout": Gray			58, 591	1.95	3 48, 576	1, 767	22223		
Spotted			79, 612			4, 963			
Sturgeon			73		22				
Tenpounder			4,725						
Tripletail			1,540	12	24 997	55	2277222		
Crabs, hardShrimp	104 400	An 015					574, 679		
Shrimp	104, 400	\$3,915							
Total	104, 400	3, 915	1, 209, 724	56, 35	59 412, 866	27, 454	574, 679	9, 720	
Species	Dip nets, drop		Cast	nets	Otter t		Spe	pears	
Flounder	Pounds	Value	Pounds	Value	Pounds	Value		Value	
Flounder			11,020	\$491	8, 855	\$805	28, 248	\$2,654	
MulletSheepshead, salt-water			440	24					
Crabs, hard	98, 602	\$1,409	110						
Shrimp			6,570	792	8, 378, 080	314, 164			
Total	98, 602	1,409	18, 030	1, 307	8, 386, 935	314, 969	28, 248	2, 654	
10041	100,002	1, 100	10,000	1,001	0, 000, 000	011,000	20,210	2,00	
Species		Dredges,	oyster		Tongs	215-1 INTO	By har	nd	
	I	Pounds	Value	Pour	nds Val	ue Po	unds	Value	
Crabs, soft							5, 800	\$1,740	
Oysters:		010 001	0105 500	000	100 010	710	197		
Market, public, spring, Mississi Market, public, fall, Mississippi		913, 904	\$125, 508	280,	182 \$18,	718			
		68, 820 695, 860	4, 313 111, 209	171,		626			
			111, 209						
Market, public, spring, Louisian	1,	673, 832	42 224	22	610	629			
		673, 832 352, 416	42, 224	22,	610 1,	629			

OPERATING UNITS: BY COUNTIES

Item	Hancock	Harrison	Jackson
Fishermen: On vessels	Number	Number 524	Number 31
On boats and shore— Regular Casual	41 38	1, 126 107	188 48
Total	79	1,757	267

Fisheries of Mississippi, 1930—Continued OPERATING UNITS: By counties—Continued

Item	Hancock	Harrison	Jackson
Vessels: Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons	Number	Number 43 66 9	Number 1 3 2
Total. Net tonnage		119 1, 573	6 105
Sail— 5 to 10 tons		1 4	
TotalNet tonnage		5 66	
Total vessels_ Total net tonnage		124 1,639	6 105
Boats: Motor Other A pparatus:	17 47	322 467	62 101
Haul seines	9	9, 020 22 8, 354	1 200 24 6, 425
Lines— Hand. Hooks. Trot, with baits or snoods.	26	67 67 56	74 108 10
Baits or snoods Dip nets, drop Cast nets	232	19, 345	1,450
Otter trawls, shrimp		321 4, 084	523 523
Spears. Dredges, oyster Yards at mouth		51 429 435	16 8 8
Tongs	17	370	53

CATCH: BY COUNTIES

Species	Hand	Hancock Harris			Jackson		
Bluefish	Pounds	Value	Pounds	Value	Pounds 19, 191	Value \$1,047	
Buffalofish					14, 969	680	
Cabio or crab eater			1,837	\$98			
Catfish and bullheads	7,920	\$360	37, 818	1,719	15,684	713	
Crevalle			330	9	9,627	263	
Croaker	550	20	5, 115	181	5,610	196	
Drum:	TO SECULIAR SEC.	A ser showing					
Black	4,620	168	9, 119	436	7,016	368	
Red or redfish	16,830	918	43, 510	2, 373	61,690	3, 430	
Flounders	13, 575	1,124	38, 665	3, 413	16,749	1, 464	
Groupers					71,093	2, 133	
Jewfish					1, 274	38	
King whiting or "kingfish"	550	15	3, 685	122	1,369	46	
Mullet		1,940	86, 789	3, 521	666, 466	26, 659	
Pompano			165	45	626	183	
PompanoSheepshead, salt-water	4,950	270	5, 198	284	20, 369	1, 181	
Snapper, red					188, 725	15, 87	
Spanish mackerel	480	28	248	13	627	47	
Squeteagues or "sea trout": Gray	La Florentala	A SECTION AND A	the same and the same	to the same and the		Value of Aspen	
Gray	26,850	798	37, 356	1,360	42, 961	1,562	
Spotted	35, 310	3, 423	43, 917	4, 394	45, 885	4, 52	
Sturgeon					73	25	
Tenpounder					4, 725	145	
Tripletail	440	24	1, 155	76	942	79	
Crabs:						0.00	
Hard		1,409	501, 249	8,646	73, 430	1,074	
Soft	1,320	396	4, 480	1, 344			
Shrimp			7, 888, 830	296, 231	600, 220	22, 640	
Oysters:							
Market, public, spring, Mississippi	31,990	2,856	1, 981, 886	129, 110	135, 982	9, 893	
Market, public, fall, Mississippi		4,896	134, 858	8,474	48, 636	3, 41	
Market, public, spring, Louisiana			1, 765, 776	115, 033	43,556	3, 16	
Market, public, fall, Louisiana			696, 442	43, 762			
Total	349, 607	18, 645	13, 288, 428	620, 644	2, 097, 495	100, 84	

Industries related to the fisheries of Mississippi, 1930

TRANSPORTING IN HARRISON COUNTY

Persons engaged	on	boats	26

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Hancock and Har- rison Counties	Har- son County inties 45 8	
Establishments	45	8	53
Persons engaged: Proprietors Salaried employees	60 29	12 8	72 37
Wage earners— Average for season Average for year	2, 375 1, 004	171 52	2, 546 1, 056
Paid to salaried employees Paid to wage earners	\$95, 176 350, 934	\$11, 085 18, 497	\$106, 261 369, 431
Total salaries and wages	446, 110	29, 582	475, 692

PRODUCTS MANUFACTURED

. Item	Quantity	Value
Crab meat, packaged (fresh-cooked)pounds	57, 150	\$16, 810
Shrimp: Packaged, cooked, and peeleddo	193, 145	59, 594
Wet in tins and glass standard cases. Dry in tins do Oysters:	61, 273 45, 904	336, 035 268, 290
Fresh-shucked gallons. Canned standard cases. Shell products—	83, 404 224, 921	125, 136 1, 034, 362
Poultry feed tons. Lime do Miscellaneous '	38, 663 7, 733 (²)	270, 641 5, 126 25, 125
Total		2, 141, 119

FISHERMEN'S PREPARED PRODUCTS

[Number of persons engaged, 61]

Oysters, fresh-shuckedgallons	7, 446	\$9,658

¹ Includes salted mullet, canned shrimp gumbo soup, and shrimp meal.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 26 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 57 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

² Data not available.

LOUISIANA

Fisheries of Louisiana, 1930 OPERATING UNITS: BY GEAR

							Lines	
Item			Iaul eines	Gill nets, run- around	Trammel nets	Hand	Trot, with baits or snoods	Trot, with hooks
Fishermen: On boats and shore— Regular		Nı	umber 608 47	Number 2	Number 98 2	Number 61 86	Number 201 87	Number 3
Total			655	2	100	147	288	3
Boats: MotorOther	inling()		129 177	1 1	45 51	28 100	25 259	3
Apparatus: Number				1	50	147	288	3
Length, yards				30	13, 712	152	58, 370	300
Item	Dip n drop		Cast	Otter trawls, shrimp		Tongs	By hand	Total, exclusive of dupli- cation
Fishermen: On vessels	Numb	ber	Numbe	Number 249			Number	Number 370
On boats and shore— Regular Casual		8 15	3	1, 650	0 14	524	125 94	2, 775 238
Total	(54Y)-	23	3	1, 899	9 161	526	219	3, 383
Vessels, motor; 5 to 10 tons				107	7 30 8 10			133
Total vessels Total net tonnage				- 118 780				148 1, 074
Boats: Motor Other Apparatus:		11 21		82	5 4	3 523		997 1, 073
NumberYards at mouth	1, 7	00	3	940 12, 213				

CATCH: BY GEAR

Species	Haul seines		Gill nets, runaround		Tramm	el nets	Lines—Hand	
Catfish and bullheads	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Crevalle	24, 400	\$856		~~~~	35, 443 165	\$1, 199 15	27, 700	\$1,030
Croaker	29,860	1,972			25, 903	1,905	4, 100	328
Drum:		-, -, -			20,000	2,000	1, 100	020
Black		1, 255			91, 423	3,463	44,000	1,733
Red or redfish		5, 017			176, 640	13, 776	92, 920	7, 166
Flounders		481			18, 037	1,602		
Garfish					1,320	120		
Groupers							3, 500	
Jewfish							6,000	180
King whiting or "kingfish" Mullet		675			32, 917	1,029		
Pompano		269			110	10		
Sharks					1, 112	301	300,000	1, 400
Sheepshead, salt-water		1, 150			65, 994	3, 818	16, 700	1, 400
Snapper, red	10, 100	1, 100			00, 554	0, 010	76, 400	6, 112
Spanish mackerel							1,800	108
Spot.	6,000	179			3,704	111	2,000	
Squeteagues or "sea trout":	Address of the latest of the l				5,		600	
Gray	68, 150	2, 106			164, 379	4,943	90,800	2,760
Spotted	73, 093	8, 529	151	\$14	204, 357	23, 536	109, 500	13, 785
Tripletail					5, 301	455		
Shrimp		21,624						
Turtles, loggerhead	50, 050	1,052						
Total	1,079,417	45, 615	151	14	826, 805	56, 283	773, 420	35, 732

Fisheries of Louisiana, 1930—Continued

CATCH: BY GEAR-Continued

	L	ines—Co	ntinued			-		
Species	Trot, wit		Trot,			Cast nets		
Catfish and bullheads	Pounds	Value	Pounds 1,600	Value \$128	Pounds	Value	Pounds	Value
MulletCrabs, hard	4, 044, 995	\$60, 637			141, 000	\$2,820	1, 053	\$32
Total	4, 044, 995	60, 637	1,600	128	141, 000	2, 820	1,053	32

Species	Otter trawls, shrimp		Dredges	, oyster	Tor	ngs	By hand	
Crabs, softShrimp	Pounds 37, 986, 677	Value \$1,138,002	Pounds	Value	Pounds	Value	Pounds 145, 732	
Oysters: Market, public, spring. Market, public, fall. Market, private, spring. Market, private, fall. Terrapin, diamond-back	134		266, 664 342, 708 184, 800 639, 884	\$11, 111 18, 932 9, 748 80, 026		\$640 6, 008 191, 909 231, 672	38, 750	12, 980
Total	37, 986, 677	1, 138, 002	1, 434, 056	119, 817	3, 412, 244	430, 229	184, 482	71, 048

OPERATING UNITS: BY PARISHES

Item	Cameron	Iberia	Jefferson Davis	Jefferson	La Fourche	Orleans
Fishermen: On yessels	Number	Number	Number	Number 20	Number 95	Number 57
On boats and shore— Regular Casual		14 10	4	721 40	568 2	158 19
Total	9	24	4	781	665	234
Vessels, motor: 5 to 10 tons 11 to 20 tons				8 1	44 1	15 2
Total vessels Total net tonnage				9 63	45 296	17 142
Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets, runaround		2 19 1 100	1 75	261 166 37 13, 225	232 168 10 1,680	68 61 22 2,660
Square yards	30	1 96		10 2, 822	1, 160	7 1, 480
Hooks_ Trot, with baits or snoods Baits or snoods Trot, with hooks	2 280 3	6 520		17 17 40 8, 500	7 1, 450	14 19
Hooks Dip nets, drop Cast nets						1, 220
Otter trawls, shrimp Yards at mouth Dredges, oyster	1 11		2 27	222 2, 830 2	272 3, 564 1	39 543 23
Yards at mouth Tongs		14		70	1 150	23

Fisheries of Louisiana, 1930—Continued OPERATING UNITS: By Parishes—Continued

Item	Plaque- mines	St. Ber- nard	St. Charles	St. Mary	St. Tam- many	Terre- bonne	Ver- milion
Fishermen: On vesselsOn boats and shore—	Number 74	Number	Number	Number 34	Number 8	Number 82	Number
Regular	362 8	199 64	24	135 19	10 3	522 47	49 26
Total	444	263	24	188	21	651	75
Vessel, motor: 5 to 10 tons	22 4			9 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	34	Stillwet.
Total vessels Total net tonnage	26 189			12 114	2 22	37 248	
Boats: Motor Other	137 93	. 49 188	12	37 81	2 8	172 260	19 25
Apparatus: Haul seines Length, yards Trammel nets Square yards	8	22 3, 455 14 4, 791		540 		11 1, 180 5 705	2, 010 1 133
Lines— Hand Hooks	211-300	54 54				62 62	
Trot, with baits or snoods Baits or snoods Dip nets, drop		135 29, 920		15, 800	480	2 250	300
Otter trawls, shrimp	22	24 308	12 157	583 10	4	2, 461 6	25 4
Yards at mouth	22 55			10 26	4	6 200	4 2

CATCH: BY PARISHES

All lage the reason is	Cam	eron	Ibe	ria	Jefferso	n Davis	Jefferson	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheadsCroaker	1, 600	\$128	55	\$2	440	\$12	2, 000 1, 520	\$60 45
Black Black Red or redfish Flounders			137 550 30	12 50 6	660	48	37, 000	250 2, 960 363
King whiting or "kingfish" Mullet Sharks	1, 053		165	6	550			726 93
Sheepshead, salt-water Spanish mackerel Spot			220	30			9, 140 600 1, 500	45' 36 4
Squeteagues or "sea trout": GraySpotted	151	14	275 220	12 40		78	4, 000	120 5, 780
Crabs: Hard Soft		48	24, 500	350			975, 000 33, 720	16, 250 12, 645
Shrimp Oysters:	3, 400	340	1, 500	150	6, 500	650		291, 476
Market, private, spring Market, private, fall Terrapin, diamond-back Turtles, loggerhead	24, 400			8, 254 14, 334			310, 800 413, 496 38, 750 50, 050	38, 850 51, 683 12, 980 1, 503
Total	53, 084	3, 862	163, 168	23, 246	9, 030	820	11, 991, 381	437, 72

Fisheries of Louisiana, 1930-Continued

CATCH: BY PARISHES—Continued

		LaF	ourche	-	Orle	ans		Plaque	mines	St. Ber	nard
Species		Pound	s Value	Pour	nds	Val	ue :	Pounds	Value	Pounds	Value
Catfish and bullheads		2	20 5		400		432 045	10, 430 5, 208	\$312 385	10, 300 26, 944	\$309 2, 152
Drum: Black Red or redfish Flounders Groupers		53, 9 4, 4	00 3, 92 00 32	20 24,	860 150 780 500 000	1,	394 932 78 105 -	24, 400 28, 304 2, 544	976 2, 265 254	84, 020 54, 172 3, 804	4, 332
Jewfish King whiting or "kingfish Mullet					500		75	3, 200	96	16, 404 1, 200	48
Pompano Sheepshead, salt-water Snapper, red		22, 0	52 1, 00	03 10,	420 050 400		126 603 112	12, 656	759	252 28, 028	
Spanish mackerel					900		27	2, 600	78	1, 200 4, 704	72 141
Squeteagues or "sea trout Gray Spotted Tripletail		20, 5	11 1, 90	08 7,	200 882		126 019	32, 600 36, 704 2, 496	978 4, 405 150	265, 000 186, 392	
Crabs: HardSoftShrimp		,			800 520	4,	936 260 430 5	150, 000 4, 960 505, 043	1,860		37, 653
Oysters: Market, public, sprin Market, public, fall Market, private, spri Market, private, fall	ıg			266, 165, 00 4,	664 888 980 440	11, 8,	111 ₋ 294 ₋ 622 180	256, 080 489, 848	41, 360	1, 132, 000	
Total										2, 762, 232	
	St. C	harles	St. M	lary	St.	Tam	man	y Ter	rebonne	Vern	ailion
Species	Pounds	Value	Pounds	Value	Pou	ınds	Valu	e Poun	ds Valu	e Pound	Value
Catfish and bullheads Crevalle Croaker Drum: Black			1, 210 1, 320	\$44		(1) 1130		6, 6	016 22	24 2, 75	5 15 0 290

0	St. Cl	narles	St. M	lary	St. Tan	ımany	Terreb	onne	Verm	ilion
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads							48, 213		2, 200 165	
Croaker Drum:			1, 210	\$44			6, 016	224	2, 750	290
Black Red or redfish			1, 320	96			24, 344 131, 306			
FloundersGarfish				8			6, 479			50
King whiting or "king- fish" Mullet							6, 338 3, 549	129	110	
Pompano			880	80			15, 248			400
GraySpottedTripletail							11, 314 70, 563			
Crabs: Hard Soft			1, 570, 730	19, 469		\$1, 884 1, 650	5, 005	72	72, 000	1, 200
Shrimp. Oysters: Market, public.		\$12, 480	1, 711, 910	49, 560			7, 591, 924	227, 758	84, 000	3, 612
spring Market, public, fall Market, private,	-2.5.21		98, 800	7, 156	4, 800 96, 504				45, 476	3, 534
			85, 704 111, 072				855, 156 582, 576		1, 800 4, 220	225 570
Total	16, 000	12, 480	3, 585, 636	107, 324	199, 904	10, 130	9, 358, 471	407, 046	230, 211	11, 684

Industries related to the fisheries of Louisiana, 1930 TRANSPORTING

mts 7 Item	Iberia Parish	Jeffer- son Parish	La Four- che Parish	Or- leans Parish	Pla- que- mines Parish	St. Mary Parish	St. Tam- many Parish	Terre- bonne Parish	Ver- milion Parish	Total
Persons engaged: On vessels On boats	No.	No. 14 34	No. 44 34	No. 13	No. 4 2	No. 16 14	No. 4	No. 42 138	No. 6	No. 133 246
Total	14	48	78	13	6	30	4	180	6	379
Vessels, motor: 5 to 10 tons		6	17 4	2 4	2	4 4		21	ni yati	52 13
Total Net tonnage	01.201.	7 58	21 169	6 73	2 13	8 76		21 136		65 525
Boats	7	17	17		1	7	2	74	3	128

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Calcasieu, Jefferson Davis, and Ver- milion Parishes	Iberia Parish	Jefferson Parish	Lafayette and St. Martin Parishes	La- Fourche Parish	Orleans Parish
Establishments Persons engaged: Proprietors	5 8	3 4	16 16	3	7 9	10
Salaried employees	1		13		5	32
A verage for season	100 18	4	669 310	8 6	731 254	148 84
Paid to salaried employees Paid to wage earners	\$100 6, 257	\$2, 251	\$32, 617 93, 699	\$3, 498	\$13, 672 82, 676	\$132, 611 49, 030
Total salaries and wages	6, 357	2, 251	126, 316	3, 498	96, 348	181, 641

Item	Plaque- mines and St. Bernard Parishes	St. Charles Parish	St. Mary Parish	Terrebonne Parish	Total
Establishments Persons engaged:	9	3	10	36	102
Proprietors	2 9	6	11 16	55 24	133 100
Average for season Average for year	849 344	6 6	315 249	991 508	3, 821 1, 783
Paid to salaried employees Paid to wage earners	\$13, 100 97, 452	\$1,814	\$41, 250 141, 453	\$59, 320 168, 068	\$292, 670 646, 198
Total salaries and wages	110, 552	1, 814	182, 703	227, 388	938, 868

Industries related to the fisheries of Louisiana, 1930—Continued WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Squeteague, sun-driedpounds	27, 717	\$8,
Crab meat, packaged (fresh-cooked)dodo	190, 220	46,
Sun-drieddo	1, 588, 487	339,
Wet in tinsstandard cases	238, 467	1, 346,
Wet in glassdo	2, 462	26,
Dry in tinsdo	167, 939	1, 080,
Meal tons.	1, 445	39,
Oysters:		
Fresh-shucked gallons gallons	242, 712	413,
Cannedstandard cases	43, 819	214,
Shell products—		
Poultry feedtons	116, 880	1, 012,
Limedo	9, 347	28,
Miscellaneous 1	(2)	60,
Total		4, 618,

¹ Includes shark skins, fins, meat, and oil; canned crabs; and fresh-packaged shrimp.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State of the total number of persons employed on transporting craft, 242 have also been included as fisherm. This fact should be considered when computing the total number of persons in the fishery industries exclusion duplication.

TEXAS

Fisheries of Texas, 1930

OPERATING UNITS: BY GEAR

	Haul	4	Gill nets		Tory 5	Li	nes
Item	seines	Anchor	Stake	Run- around	Tram- mel nets	Hand	Tro
Fishermen: On vessels	Num- ber	Num- ber	Num- ber	Num- ber	Num- ber 6	Num- ber 110	Nun
On boats and shore— Regular Casual	76 78	4	277	108	140	193 156	
Total	154	4	277	108	146	459	10710
Vessels, motor: 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons.					i	4 7 2 1 2	
Total Net tonnage					1 11	16 298	
Boats: Motor. Other. Apparatus: Number. Length, yards.	63 11, 250	2	47 72 383	28 22 102	54 45 80	82 423 459	
Square yards Hooks, baits, or snoods		2,000	95, 294	23, 854	26, 651	678	

² Data not available.

Fisheries of Texas, 1930—Continued OPERATING UNITS: By GEAR—Continued

	Lines-	-Contd.				233		Total.
Item	Trot, with baits or snoods	Trot, with hooks	Otter trawls, shrimp	Spears	Dredges, oyster	Tongs	By hand	exclu- sive of dupli- cation
Fishermen: On yessels	Num- ber	Num- ber	Num- ber 84	Num- ber	Num- ber 18	Num- ber	Num- ber	Num- ber 178
On boats and shore— Regular Casual	12 6	24	464	88 87	106	316 14	112 68	1, 421 367
Total	18	24	548	175	124	330	180	1, 966
Vessels, motor: 5 to 10 tons			26 6		4 1			27 12 2 1 1 2
Total Net tonnage			32 275		5 50			44 535
Boats: Motor Other Apparatus:	2 14	5 17	232	3	33	61 219	122	431 498
Number Yards at mouth Hooks, baits, or snoods	33 4, 300	36 5, 500	264 3, 855	175	38 37	330		

CATCH: BY GEAR

			Gill nets							
Species	Haul seines		Anchor		Stake		Runaround			
January 1971 Story	Pounds	Value	Pounds	Value	Pounds	Value	Pounds			
Bluefish Catfish and bullheads	29, 700	\$1,350	550	\$30	12, 024	\$497	165 4, 620	\$14 208		
Crevalle							154	4		
Croaker Drum:	12, 980	434			1, 540	42	7, 680	273		
Black	46, 200	1,698	660			23, 286		5, 753		
Red or redfish	77, 154	6,010	2,860	260				4, 184		
Flounders	8,855	805			550	50	2,860			
King whiting or "kingfish"		288					4, 180			
Mullet	3, 630	132			3, 741	75		2		
Pompano	6, 270	1, 425	2000				1, 375	313		
Sheepshead	7, 370	327	220	16		300				
Spadefish	15, 840 550	1, 142			19, 081	1,388	3, 300	186		
Spanish mackerel	2, 420	132					0.000	360		
Squeteague or "sea trout," spotted	116, 170	11, 873	2, 200	300	302, 252	32, 974	6, 600 109, 742			
equerous de sea trout, sported	110, 110	11,010	2, 200	300	302, 202	02, 014	100, 112	10, 202		
Total	335, 059	25, 636	6, 490	636	1, 433, 320	86, 739	359, 858	22, 143		

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Fisheries of Texas, 1930 - Continued

CATCH: BY GEAR-Continued

							Lines			
Species	Tramme	el nets	Han	nd	Troll		Trot, with baits or snoods		Trot, v	
Catfish and bullheads		\$550					Pounds		Pounds 16, 170	
Drum: Black Red or redfish Flounders Groupers	169, 672 1, 035	14, 963 97	21, 172 210, 358 1, 100 20, 855	16, 678 100	3				30, 580	2, 25
Jewfish Kingfish or "king macker- el".	-		1, 430	56)			
King whiting or "king- fish" Pompano Sheepshead Snapper, red	3, 630 5, 365 6, 710	1, 225 340	929, 578	726 75, 385	3				440	
Snook or sergeantfish Spanish mackerel Squeteague or "sea trout,	1, 225 1, 799	100 142	63, 470	3, 542					22222000	
spotted Crabs, hard	236, 149	26, 272	276, 840	29, 649			29, 046	\$1,063		
Total	510, 718	46, 295	1, 563, 997	128, 555	3, 080	120	29, 046	1,063	47, 190	2, 96
Species	Otter tr shrin		Spea			ges, ter	Tongs		By h	
FloundersSheepsheadShrimp			56, 987 550	\$5, 771 _ 40			Pounds			Valu
Oysters: Market, public, spring Market, public, fall. Market, private, spring					267, 466 \$ 219, 463	\$15, 029 14, 657	209, 854	\$17, 523 23, 510 475	84, 304	
Total	10, 189, 318	377, 016	57, 447	5, 811	486, 929	29, 686	547, 650	42, 243	122, 736	8, 50

OPERATING UNITS: BY COUNTIES

Item	Aransas	Brazoria	Calhoun	Cameron	Galves- ton	Harris
Fishermen: On vessels On boats and shore—	Number 2	Number	Number 26	Number	Number 114	Numbe
Regular Casual	118 16	8	212 58	206 20	289 117	
Total	136	8	296	226	520	7.
Vessels, motor: 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons.					7 8 2 1 2	
Total. Net tonnage	1 7		8 70		20 337	

Fisheries of Texas, 1930—Continued OPERATING UNITS: By COUNTIES—Continued

Item	Aransas	Brazoria	Calhoun	Cameron	Galves- ton	Harris
Boats:	Number	Number	Number	Number	Number	Number
Motor	31	1	79	28	116	2
OtherApparatus:	46	5	40	44	117	3
Haul seines			2		45	solitor 14
Length, yards			120		8, 990	
Gill nets— Stake	58		10	186		market and the
Square yards	9, 280		1,000	62, 124		
Runaround	12					
Square yards Trammel nets	1, 940 11	1	18	14	13	
Square yards	1, 430	450	9, 561	3, 500	4, 458	
Lines—		10.00				
Hand Hooks	26 26		62 62	22 34	188 385	
Trot, with baits or snoods	9		02	94	20	
Baits or snoods	900				3,000	
Trot, with hooks	20					
HooksOtter trawls, shrimp	3, 800 13		60	8	80	
Yards at mouth	173		878	103	1, 203	
Spears	22		36	9	28	
Dredges, oysters	2 2		14 15		8 7	
Yards at mouth Tongs	31	8	88		91	6
	0.					
Item	Jefferson	Mata- gorda	Neuces	Refugio	San Patricio	
Fishermen: On vessels		Number	Number 6	Number 20	Number	Number 10
On boats and shore—			127	354	9	99
Regular Casual		4	15	89	6	42
Total.		4	148	463	8	151
Vessels, motor:						
5 to 10 tons 11 to 20 tons		2-7	1 1	7		5
Total Net tonnage			2 25	. 8		5 35
Boats: MotorOther		4	44 20	88 188	8	42 23
Apparatus: Haul seines Length, yards				16 2, 140		
Gill nets— Anchor Square yards Stake			2,000	129		
Square yards				22, 890		
Runaround				54		36
Square yards			10	11, 900		10, 014
Trammel netsSquare yards			4, 252	1,800		1, 200
Lines— Hand Hooks		4 4		113 123	6	38 38
Troll				4 4		4
Hooks Trot, with baits or snoods		4		4		4
Baits or snoods		400				
Trot, with hooks				6	4	6
Hooks			26	800 40	250	650 37
Otter trawls, shrimp Yards at mouth			391	563		544
Spears			25	25		30
Dredges, oysters			14			
Yards at mouth Tongs			13 40	64	2	

Fisheries of Texas, 1930—Continued CATCH: BY COUNTIES

	Arai	nsas	Bras	zoria	Call	ioun
Species	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads Croaker	5, 005 2, 970	\$228 108	220 220	\$10 8	10, 558 1, 980	\$45
Black Red or redfish Flounders King whiting or "kingfish"	3, 960 2, 530	1,000 4,295 360 92 162	3, 300 55 110	5 300 5 4	9, 760 263, 064 6, 957 1, 650 220	22, 88 68
Sheepshead Snook or sergeantfish Spanish mackerel Squeteague or "sea trout," spotted	1, 320 840 1, 650 73, 150	72 48 90 7, 980	3, 080	336	1, 870 825 990 254, 859	27, 95
Crabs, hard	13, 486 633, 804	24, 200			1, 216, 139	48, 64
Market, public, spring	18, 608 41, 809	1, 223 2, 770	3, 200 3, 792	300 356	81, 700 193, 542	5, 31 13, 47
Total	885, 373	43, 302	14, 329	1, 336	2, 044, 114	120, 11

	Cameron		Galve	eston	Har	rris	Jeffe	rson
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Catfish and bullheads		\$237	12, 620					
Croaker	4, 103	149	9, 900	360				
Drum: Black	518, 956	14, 153	5, 216	997				
Red or redfish	225, 580	20, 507	56, 144					8
Flounders		40	8, 360				000	
Groupers			18, 250	543				
Jewfish								
King whiting or "kingfish			4, 840					
Mullet			3, 630					
Pompano		213	1, 320				******	
Sheepshead		248	9,020				110	
Snapper, red	72, 442	7, 244	823, 432	65, 713				
Snook or sergeantfish		1, 388	440	22				
Spadefish	809	88	550					
Spanish mackerel	809	- 88	4, 620	252				
spotted	234, 700	25, 604	122, 177	14, 090			1, 265	173
Crabs, hard	204, 700	20,004	13, 160	329				60
Shrimp		7, 485	3, 552, 960	125, 702			2, 100	1
Oysters:	210, 110	1, 200	0,002,000	120,102			960,00000	
Market, public, spring	2, 400	400	211, 288	11,651	3,040	\$285		
Market, public, fall	3, 360	420	75, 340	7,073	3, 520			
Market, private, spring			3,040	475				
Market, private, fall			4, 704	735		******		
Total	1, 313, 350	78, 251	4, 941, 671	235, 089	6, 560	615	4, 805	326

G	Matag	gorda	Neu	ices	Reft	igio	San Pa	tricio
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish			165	\$14			- House	
Catfish and bullheads		\$212	53, 900 154	2, 450	2, 365	\$108	2, 200	\$80
Croaker		60	7, 240	198			3, 850	140
Black Red or redfish	5, 390 13, 585	230 1, 235	466, 064 199, 293	16, 948 14, 194	8, 800		19, 800 42, 900	720 3, 210
Flounders	7,965	1,020	38, 060	3, 460	*******		5, 500	500
Jewfish Kingfish or "king mackerel"				8	*******		550	30
King whiting or "kingfish" Mullet	2, 750	100	2, 200	80				60
Pompano	220	50 104	8, 580 18, 260	1,950	440		1, 045 2, 640	238
Snapper, red			33, 704 15, 400	2, 428			2, 860	16:
Spanish mackerel		12	63, 800		*******		2, 200	200
spotted	22, 858 756, 879	2, 914 26, 737	218, 239 1, 917, 544	20, 848 73, 628	7, 370	804	105, 655 1, 898, 544	10, 618
Oysters:							1, 000, 011	10, 01
Market, public, spring Market, public, fall	129, 212 157, 560	11, 210 9, 790	65, 664 153, 888	5, 472 9, 118	1,008	40 63	*********	
Total	1, 104, 009	53, 674	3, 265, 860	156, 283	20, 623	1,679	2, 092, 144	86, 80

Industries related to the fisheries of Texas, 1930 TRANSPORTING IN MATAGORDA COUNTY

Persons engaged on vessels	3
Vessels	1
Net tonnage	6

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

The state of the s	Aransas County	Cal- houn County	Cam- eron County	Galveston and Brazoria Counties	Mata- gorda County	Nueces County	San Patricio County	Total
EstablishmentsPersons engaged:	4	11	6	13	7	10	4	55
Proprietors	4	12	5	19	9	12	5	66
Salaried employees Wage earners—	4	6	6	6	3	8	2	35
Average for season	31	238	163	297	208	197	236	1,370
Average for year	16	90	87	179	91	95	169	727
Paid to salaried employees Paid to wage earners	\$4,620 9,725	\$7,080 24,707	\$7,870 16,548	\$25, 536 55, 850	\$3, 320 33, 984	\$8, 270 33, 533	\$4,890 28,243	\$61, 586 202, 590
Total salaries and wages	14, 345	31, 787	24, 418	81, 386	37, 304	41, 803	33, 133	264, 176

PRODUCTS MANUFACTURED

Item	Quantity	Value
Shrimp:		
Packaged, headless—		
Freshpounds_	112,000	\$17,000
Frozen do	1, 485, 387	266, 878
Canned—	2, 200, 001	200,010
Wet in tinsstandard cases	45, 788	276, 828
Wet in glassdo	12, 092	131, 370
Dry in tinsdo	9, 151	55, 426
Oysters, fresh-shuckedgallons	75, 416	106, 801
Miscellaneous 1	(2)	31, 952
	()	0.,00
Total		886, 255

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 210]

Crab meat, packaged (fresh-cooked) pounds. Shrimp, fresh headless, packaged do- Oysters, fresh-shucked gallons.	577 54, 855 34, 169	\$144 3, 840 38, 391
Total	. ozosta žoro z die	42, 375

¹ Includes fresh-cooked crab meat; sun-dried shrimp; shrimp bran; cooked shrimp; canned oysters; and oysters-shell products.
² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 196 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Total ..

FISHERIES OF THE PACIFIC COAST STATES 10

The yield of fishery products in the Pacific Coast States (Washington, Oregon, and California) during 1930 amounted to 833,388,643 pounds, valued at \$23,064,140. This is a decrease of 19 per cent in the volume of the catch and 8 per cent in the value of the catch as compared with the quantity and its value for 1929. Of the total catch in 1930, 806,753,999 pounds, valued at \$21,302,721, were fish; 22,790,435 pounds, valued at \$1,594,466, were shellfish and miscellaneous products; and 3,844,209 pounds, valued at \$166,953, were whale products. These fisheries gave employment to 19,574 fishermen or 2 per cent less than in 1929. Of the total number of fishermen employed during 1930, 6,165 were employed on vessels and 13,409 in the boat and shore fisheries.

Fisheries of the Pacific Coast States, 1930 SUMMARY OF CATCH

Product	Washi	ngton	Oregon			
Product	Pounds	Value	Pounds	Value		
Fish	106, 171, 839 3, 866, 922	\$7, 678, 561 656, 212	25, 484, 812 973, 949	\$2, 180, 428 75, 860		
Total	110, 038, 761	8, 334, 773	26, 458, 761	2, 256, 288		
Lahv guang	Calif	ornia	Total			
Product	Pounds Value		Pounds	Value		
Fish Shellfish, etc	675, 097, 348 17, 949, 564 3, 844, 209	\$11, 443, 732 862, 394 166, 953	806, 753, 999 22, 790, 435 3, 844, 209	\$21, 302, 721 1, 594, 466 166, 953		

OPERATING UNITS: BY STATES

696, 891, 121

12, 473, 079

833, 388, 643

23, 064, 140

		Wash	ington	Oregon			
Rem	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total
Fishermen: On vesselsOn boats and shore	Number 2, 265 1, 952	Number 14 2, 786	Number 12 1,747	Number 2, 291 6, 485	Number 66 2,456	Number 16 1, 345	Number 82 3, 801
Total	4, 217	2,800	1,759	8, 776	2, 522	1, 361	3, 883
Vessels: Steam Net tonnage. Motor. Net tonnage Sail Net tonnage. Net tonnage.	2 29 338 6, 817 4 1, 418	7 56	6 53	29 351 6, 926 4 1, 418	28 282	7 63	35 345
Total vessels Total net tonnage	344 8, 264	7 56	6 53	8, 373	28 282	7 63	35 345

With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith. Data on the operating units and catch of the fisheries of the Pacific Coast States have been taken largely from statistics collected by the various State agencies. Supplementary surveys, compilations, and analyses have been made by agents of this bureau in order that the figures may be presented in a manner comparable with those of other sections.

Fisheries of the Pacific Coast States, 1930—Continued

OPERATING UNITS: BY STATES-Continued

		Wash	ington			Oregon			
Item	Puget Sound district	Coastal district	Columbia River district	Total	Columbia River district	Coastal district	Total		
Boats: Motor Other Apparatus:	Number 1, 068 496	Number 301 234	Number 890 231	Number 2, 259 961	Number 1, 315 86	Number 863 187	Number 2, 178 273		
Purse seines—	Smirk.		Market I	olimp's		-osnia)			
Salmon	197 122, 140			197 122, 140					
Haul seines	92		57	149	41	2	43		
Length, yardsGill nets— Drift—	8, 644		16, 044	24, 688	23, 273	866	24, 139		
Salmon	377	106	543	1, 026	921	479	1,400		
Square yards	644, 670	199, 192	1, 292, 883	2, 136, 745	2, 910, 360	602, 920	3, 513, 280		
Set— Salmon	19	271	271	561	183	941	1, 124		
Square yards		91, 320	66, 124	164, 170	47, 580	151, 181	198, 761		
Lines—									
Trawl, set, and hand	21, 906	1 200	55	21, 974 483, 290 2, 944 13, 202	392	95 9, 500	487 48, 700		
Hooks	476, 490 2, 156	1, 300 64	5, 500 724	2 944	39, 200 1, 201	517	1, 718		
Hooks	9, 720	224	3, 258	13, 202	5, 400	2, 326	7,726		
Pound nets	123	100	381	604	61		61		
Brush weirs	5		39	5 39					
Fish wheels Dip nets	9	30	122	161	184		184		
Drag bag nets	51	2		53					
Length, yards	4, 261	120		4, 381					
Reef nets	2			33					
Beam trawls Yards at mouth	33 226			226					
Traps—	220			220					
Crab	2, 369	4, 095		6, 464		6, 690	6, 690		
Crawfish Tongs and rakes	183	27		210	986	2	986		
Shovels	228	2, 664		2,892		246	246		
Spears		14		14					
100 May 650 KIE 024 M.C	100 541 T		Calif	ornia					
Mark Mark	Dise-	P 12		Souther	n district		Grand		
Item	Northern d'strict	San Francisco		San	San	Total	total		
AND AS A SECOND STATE OF THE SECOND STATE OF T	10.2	district	trict	Pedro division	Diego division	2 276 2			
Fishermen:	Number	Number	Number	Number	Number	Number	Number		
On vessels	24	345	557	2, 025	841	3, 792	6, 165		
On boats and shore	552	997	632	732	210	3, 123	13, 409		
Total	576	1, 342	1, 189	2, 757	1, 051	6, 915	19, 574		
Vessels: Steam		4				4	6		
Net tonnage	10	153 30	52	254	117	153	182		
Motor Net tonnage	73	408	904	7, 707	5, 246	463 14, 338	849 21, 609		
Sail		4				4	8		
Net tonnage		1,722				1,722	3, 140		
Total vessels	10	38	52	254	117	471	863		
Total net tonnage	73	2, 283	904	7, 707	5, 246	16, 213	24, 931		
1 otal net tonnage	0.00	STATE OF STREET							
Boats:									

Fisheries of the Pacific Coast States, 1930—Continued OPERATING UNITS: By STATES—Continued

		California								
Item	100	San	Monte-	Souther	n district		Grand total			
	Northern district	Francisco		San Pedro division	San Diego division	Total	total .			
pparatus:										
Purse seines—	Number	Number	Number	Number 33	Number	Number 33	Number 33			
Barracuda Length, yards				14, 228		14, 228	14, 228			
Salmon Length, yards							197			
Length, yards				70		*********	122, 140			
Sardine Length, yards			2,050	31, 747		33, 797	33, 797			
Tuna				82		82	82			
Length, yards				46, 625		46, 625	46, 625			
Lampara nets—										
Sardine Length, yards		19	62	39	17	137	137			
Squid		4, 080	20, 756 52	17, 106	4, 790	46, 732	46, 732			
Length, yards			10, 220	********		10, 220	10, 220			
Other				52		52	52			
Length, yards Haul seines Length, yards				21, 152		21, 152	21, 152			
Haul seines	18	1		1		20	212			
Gill nets—	2, 685	100		100		2, 885	51, 712			
Drift—							7.7			
Barracuda				38	19	57	57			
Square yards				330, 904	94, 804	425, 708	425, 708			
Salmon Square yards	166	197				363	2, 789			
Sea bass	158, 253	634, 088 17	23			792, 341	6, 442, 366			
Square yards		38, 070	45, 322			83, 392	83, 392			
Shad		133				133	133			
Shad		441, 226				441, 226	441, 226			
Striped bass Square yards		160				160	160			
Set Square yards		434, 720				434, 720	434, 720			
Salmon					2.77		1, 685			
Square yards						**********	362, 931			
Sea bass				37	22	59	59			
Square yards				152, 625	120, 450	273, 075	273, 075			
Miscellaneous—	12		61	9.7		101	105			
Other Square yards Trammel nets	8.862	108, 177	83, 390	30, 905	6, 826	185 238, 160	238, 160			
Trammel nets	11, 002	100, 111	8	35	18	61	61			
Square yards			12, 480	255, 500	247, 572	515, 552	515, 552			
Lines—										
Trawl, set, and hand	369	619	1, 954	1, 450	735	5, 127	27, 588			
Troll	57, 907 857	55, 843 936	140, 631	255, 987 2, 215	115, 690	626, 058 6, 767	1, 158, 048 11, 429			
Hooks	4, 040	4, 780	4, 977	2, 215	1, 545	17, 557	38, 485			
Pound nets				2,210	2,040	********	665			
Brush weirs							5			
Fish wheels Fyke nets Dip nets							39			
Dip nets	49	2, 102				2, 102	2, 102			
Bag nets, shrimp	14	16				42 16	387 16			
Length, yards		8,996				8, 996	8,996			
Drag bag nets							53			
Length, yards							4, 381			
Reef nets Paranzella nets		10				10	2			
Yards at mouth	17	170	17	67		16 271	16 271			
Beam trawls		22				22	55			
Yards at mouth		147				147	373			
Traps-		4 000								
Crawfish	408	4, 096				4, 494	17, 648			
Lobster		*****	********	2, 805	1, 572	4, 377	4, 377			
Octopus	10		141	M 000	1,012	151	151			
Harpoons-										
Swordfish and turtle		******	· · · · · · · · · · · · · · · · · · ·	22	24	46	46			
Whale. Tongs and rakes		22				23	4			
		44	1	A	124424426		235			
	9	28	8	61		106	3, 244			
Shovels Abalone outfits	9	28	8 12	61	********	106	3, 244			

Fisheries of the Pacific Coast States, 1930-Continued

CATCH: BY STATES

Carp. 214, 729 86, 441	and the second s	Washir	ngton	Oregon		
Sarp	Species	Pounds	Value	Pounds	Value	
Sarp	FISH		inches See	d-m-tm;	7.60	
Doll'y Varden trout.		214 720	\$6 441			
Dolly Vardent trout.		9, 977, 023				
Other	Polly Varden trout					
Other	Flounders:	071 575	10 200	7 500	0057	
frayfish	Other	92 161		37, 722	\$257 1, 220	
Take	Brayfish	371, 180	1, 309	01,122		
Herring					3	
Lingod'					47, 483	
Perch	'Lingcod'		38, 562		2, 408 4, 595	
Sallefish 2,780,448 127,790 190,299 1,92	Perch	59, 853	2,439	42, 405	945	
Salmon 72,746,074 5,526,245 20,865,628 1,92 Shad				118, 688	3, 422	
States	Sabletish	2, 780, 448	127, 790		6, 209	
States		531 815			1, 925, 337 26, 240	
Smelt	Skates	1, 170	28	2,011,010		
Striped bass		2, 140, 055			4, 219	
Sturgeon	Steelhead trout	2, 073, 990	178, 243		152, 519	
Total	Sturgeon	63 194	2 627		1, 942 3, 389	
Total	Tuna and tunalike fishes, albacore	00, 101			240	
Table	Other fish	9, 470	195			
Table	Total	106, 171, 839	7, 678, 561	25, 484, 812	2, 180, 428	
Crawfish Shrimp S8, 149 6, 699 Crawfish Shrimp S8, 149 6, 699 Crawfish Shrimp S8, 149 6, 699 Crawfish Shrimp S8, 149 6, 699 Crawfish Shrimp S8, 149 6, 699 Crawfish Shrimp S8, 149 S8, 599 S8, 372 Soft Shrimp S	SHELLFISH, ETC.	1 000 420	115 000	705 500	44 100	
Shrimp S8, 149 6, 699 Claims Hard 514, 748 38, 599 Razor 799, 516 152, 130 38, 372 25, 068 Clotopus S6, 413 4, 148 Claims S79, 516 S8, 413 4, 148 Claims S79, 516 S8, 413 4, 148 Claims S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 51, 508 S8, 413 S8, 418 S8, 875 S8, 508 S8		1, 822, 438	115, 288		44, 106 17, 680	
Claims:	Shrimp.	88, 149	6,699	1,0,000	17,000	
Razor	Clams:					
Soft				38, 372	7, 197	
Dysters 1,970				25, 068	1, 567	
Eastern, market		86, 413	4, 148			
Species Spec	Eastern market	1.970	1.851			
Total 3,866,922 656,212 973,949 78	Japanese, market		82, 875			
Total 3,866,922 656,212 973,949 78	Native, market			8, 177	5, 310	
Total	Scallops	11, 583				
California Total	squiu	11, 126	990			
Pounds	Total	3, 866, 922	656, 212	973, 949	75, 860	
Pounds Value Pounds Value	Grand total	110, 038, 761	8, 334, 773	26, 458, 761	2, 256, 288	
Pounds Value Pounds Value Pounds Value		Califor	nia 1	Tot	al	
Inchovies	Species					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Maria de la companya del companya de la companya del companya de la companya de l	Pounds	Value	Pounds	Value	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FISH	2 1 1 1 1 1				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		310 561	\$4 914	310 561	\$4, 214	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					379, 122	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	'abrilla	509, 539	27,090	509, 539	27, 090	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		69, 387	1, 490		7, 931	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			150, 928		58, 228 302, 118	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	olly Varden trout	0, 200, 110			185	
	els	20	2		2	
Other 1,019,876 42,768 1,149,759 44 lyingfish 48,458 1,805 48,458 1 rayfish 647,297 11,671 1,018,477 12 ake 56,088 561 56,353 alfmon 36,765 2,720 36,765 2 alibut 445,077 49,474 13,345,998 1,631	lounders:	1 066 641	199 020	1 066 641	128, 930	
Other 1,019,876 42,768 1,149,759 44 lyingfish 48,458 1,805 48,458 1 rayfish 647,297 11,671 1,018,477 12 ake 56,088 561 56,353 alfmon 36,765 2,720 36,765 2 alibut 445,077 49,474 13,345,998 1,631	"Sole"			11, 198, 351	670, 417	
lyingfish 48, 458 1, 805 48, 458 rayfish 647, 297 11, 671 1, 018, 477 ake 56, 088 561 56, 353 alfmon 36, 765 2, 720 36, 765 alfbut 445, 077 49, 474 13, 545, 998 1, 631	Other	1, 019, 876	42, 768		46, 661	
ake 56,088 561 56,353 alfmoon 36,765 2,720 36,765 2 alibut 445.077 49,474 13,545,998 1,631			1, 805		1, 805	
alfmoon 36, 765 2, 720 36, 765 2 36 36 36 36 36 36 36 36 36 36 36 36 36		56 000			12,980 564	
alibut 445, 077 49, 474 13, 545, 998 1, 631			2, 720		2,720	
	alibut	445, 077	49, 474	13, 545, 998	1, 631, 584	
ardhead		38, 857	5, 257	38, 857	5, 257 12, 992	

 $^{^{\}rm I}$ Taken off Pacific coast, including Latin America. $^{\rm Z}$ The cod were taken off Alaska.

Fisheries of the Pacific Coast States, 1930—Continued CATCH: BY STATES—Continued

100000000000000000000000000000000000000	Calif	lornia	Total		
Species	Pounds	Value	Pounds	Value	
rssu-continued					
Horse mackerel		\$11, 142	368, 828	\$11, 1	
Kingfish	457, 158	11, 143	457, 158	11, 1	
'Lingeod''	1, 293, 643	54, 909	2, 503, 456	98, 0	
Mullet	16, 531, 364 21, 307	241, 569	16, 531, 364 21, 307	241, 5	
Perch	268, 337	1, 950 11, 201	370, 595	14, 5	
Perch. Pilehard or sardines	494, 450, 747	2, 377, 432	449, 450, 747	2, 377, 4	
Pompano	2, 223	1, 113	2, 223	1, 1	
Rock bass	508, 163	32, 417	508, 163	32, 4	
Rock fishes ablefish	7, 213, 354 1, 361, 494	281, 154 47, 579	7, 969, 124 4, 332, 211	308, 5 181, 5	
almon	6, 002, 894	528, 765	99, 614, 596	7, 980, 3	
leulpin		9, 017	89, 656	9,0	
Sea buss:					
Black	394, 009	19, 878	394, 009	19, 8	
White or squeteague	1, 626, 422 1, 199, 459	144, 482 45, 314	1, 626, 422 3, 043, 119	144, 4 82, 1	
heepshead	243, 689	9, 035	243, 689	9, (
Kales	286, 390	5, 753	287, 560	5,7	
melt.	1, 057, 680	54, 262	3, 391, 907	116, 7	
panish mackerelplittail	42, 965 18, 528	2,041	42, 965 18, 528	2,0	
quawfish		300	5, 207	3	
Steelhead trout			3, 953, 563	330, 7	
Striped bass	866, 808	90, 387	882, 472	92, 3	
Ruckers	1,990	100	141, 976 1, 990	6, 0	
wordfish	562, 729	75, 495	562, 729	75, 4	
Pomeod	23, 172	926	23, 172	9	
una and tunalike fishes:					
Albacore	283, 117	23, 651	286, 283	23, 8	
Bluefin	21, 921, 282 5, 164, 260	1, 238, 017 166, 566	21, 921, 282 5, 164, 260	1, 238, 0	
Bonito. Skipjack of striped tuna	20, 485, 587	789, 836	20, 485, 587	789, 8	
Yellowfin	56, 654, 181	3, 396, 217	56, 654, 181	3, 396, 2	
Whitebait	179, 438	11, 927	179, 438	11, 9	
Whitefish cellowtail	225, 102 4, 770, 428	12, 960 209, 776	225, 102 4, 770, 428	12, 9 209, 7	
)ther fish	134, 094	5, 056	143, 564	5, 2	
Total	675, 097, 348	11, 443, 732	806, 753, 999	21, 302, 71	
SHELLFISH, ETC.	State Links			COT I	
rabs	1, 992, 396	239, 886	4, 540, 366 176, 800	399, 28 17, 68	
rawfish ea crawfish or spiny lobster	1, 394, 139	263, 145	1, 394, 139	263, 14	
hrimp	2, 696, 567	42, 272	2, 784, 716	48, 9	
balone	647, 316	130, 331	647, 316	130, 3	
Cockle	30, 051	9, 659	30, 051	9,6	
Pismo	21, 772	9, 610	514, 748 21, 772	9, 6	
Rator			837, 888	159, 3	
Rator	37, 303	9, 474	62, 371	11, 0	
Mixed	5, 162	1, 098	5, 162	1, 0	
dussels		7, 265	163, 393	11, 4	
Pysters:					
Eastern, market	72,796	29, 118	74, 766	30, 9	
Japanese, market	4, 949	3, 093	228, 318 315, 785	82, 81 258, 90	
Long F Longue		**********	11, 583	3, 50	
quidblup	10, 909, 462	117, 372	10, 980, 590	117, 90	
quid ferrapin. furtles.	580 580	58	58	THE STATE OF	
				1	
Total	17, 949, 564	862, 394	22, 790, 435	1, 594, 46	
WHALE PRODUCTS	3, 544, 209	166, 953	3, 844, 209	166, 90	
Whale oil	Name and Address of	CONTRACTOR STATE	and the last of th	and the same of the last	
Grand total	696, 891, 121	12, 473, 079	833, 388, 643	23, 064, 1	

Industries related to the fisheries of the Pacific Coast States, 1930

Item	Washington	Oregon	California	Total
Fransporting: Persons engaged	Number	Number	Number	Number
	160	48	41	249
Vessels— Steam Net tonnage Motor Net tonnage	64 1, 425	27 286	1 33 7 539	1 33 98 2, 250
Total vessels Total net tonnage	64	27	8	99
	1, 425	286	572	2, 283
Wholesale and manufacturing: Establishments Persons engaged—	104	54	151	309
Proprietors	125	47	213	385
	194	73	630	897
A verage for season A verage for year Salaries and wages paid Manufactured products 1	2, 134	734	7, 686	10, 554
	982	459	3, 639	5, 080
	\$1, 797, 902	\$792, 978	\$6, 046, 115	\$8, 636, 995
	\$11, 150, 491	\$5, 087, 826	\$29, 720, 076	\$45, 958, 393

¹ These production figures are not comparable with those shown in previous bulletins since packaged resh and frozen products are now included.

WASHINGTON

Fisheries of Washington, 1930

CATCH: BY DISTRICTS

Species	Puget Soun	d district	Coastal	listrict	Columbia River dis- trict		
Species -	Pounds	Value	Pounds	Value	Pounds	Value	
FISH			and Palmonton				
Carp			6, 483	\$194	208, 246	\$6, 247	
Cod	9, 977, 023	\$151, 190					
Dolly Varden troutFlounders:	2, 348	185					
"Sole"	271, 575	10, 320					
Other	92, 161	2,673	*********				
Grayfish	371, 180	1, 309					
Halibut	12, 684, 759	1, 534, 287	3, 518	340			
Herring	489, 092	2,877					
"Lingcod"	961, 206	37, 951	61, 097	611			
Perch	58, 421	2, 396	1, 432	43			
Rockfishes.	617, 112	23, 748	19, 970	178			
Sablefish	2, 780, 448	127, 790	10,010	2750			
Salmon:	2,100,110	221,100					
Blueback, red or sockeye	23, 134, 160	2, 100, 949	1, 393, 838	204, 894	295, 032	50, 155	
Chinook or king	11, 499, 406	1, 190, 070	1, 396, 129	126, 297	7, 080, 215	861, 104	
Chum or keta	10, 120, 120	104, 340	1, 382, 844	6, 914	579, 842	2, 898	
Humpback or pink	271, 705	8, 030	1,002,011	0, 011	010,012	2,000	
Silver or coho	10, 699, 117		2, 047, 855	90, 312	2, 845, 811	153, 708	
	10, 699, 117	626, 574	2, 047, 855	90, 512	531, 815	10, 636	
	1 170	00		****	001, 010	10, 030	
Skates	1, 170	28	117 040	F 700	7 007 410	24, 111	
Smelt	416, 999	28, 355	115, 640	5, 782	1, 607, 416		
Steelhead trout	95, 004	13, 269	108, 910	7, 187	1,870,076	157, 787	
Sturgeon	1,064	53	7, 470	224	54, 660	2, 350	
Other fish	9, 470	195					
Total	84, 553, 540	5, 966, 589	6, 545, 186	442, 976	15, 073, 113	1, 268, 996	
SHELLFISH							
Crabs	443, 278	23, 574	1, 379, 160	91, 714			
Shrimp	88, 149	6, 699					
Clams:							
Hard	507, 983	37, 759	6, 765	840			
Razor			799, 516	152, 130			
Octopus Oysters:	86, 413	4, 148	*********				
Eastern, market			1,970	1,851			
Japanese, market	69, 646	33, 463	158, 672	49, 412			
Native, market	294, 466	244, 404	8, 193	6,098			
Scallops	11, 583	3, 564	-,	0,000			
Squid	11, 128	556		*******	*********		
Total	1, 512, 646	354, 167	2, 354, 276	302, 045			
Grand total	86, 066, 186	6 200 750	P 900 400	715 001	15 079 119	1 000 000	
Grand total	80, 000, 180	6, 320, 756	8, 899, 462	745, 021	15, 073, 113	1, 208, 996	

Fisheries of the Puget Sound district of Washington, 1930 OPERATING UNITS: BY GEAR

		1000	Gill	nets	1	lines	100	- brend
Item	Purse seines, salmon	Haul seines	Drift, salmon	Set, salmon	Trawl set, an hand	d Trol	Poun nets	
Fishermen: On vesselsOn boats and shore	Number 1, 576 50	Number 10 272	Number 5 422		Number 69	9 11	6 2	
Total	1, 626	282	427	13	75	7 70	21	9 10
Vessels: Motor Net tonnage Sail Net tonnage		3 17	3 19		10 2, 17	9 41		8
Total vessels	190 4, 390	3 17	3 19		. 10	8 8		8
Boats: Motor. Other. Apparatus: Number. Length, yards. Square yards. Hooks.	197 122, 140	57 51 92 8, 644	366 8 377 644, 670	10	21, 90	6 2, 15	6 12	8 4
Item	Dip	Drag bag nets	Reef nets	Beam trawls	Traps,	Tongs and rakes	Shovels	Total, exclusive of dupli- cation
Fishermen: On vessels On boats and shore	Number 9	Number 124	Number 5	Number 46 30	Number 111	Number 69	Number 228	Number 2, 265 1, 952
Total	9	124	5	76	111	69	228	4, 217
Vessels: Steam Net tonnage Motor Net tonnage Sail Net tonnage Net tonnage				2 29 17 204				2 29 338 6, 817 4 1, 418
Total vessels Total net tonnage				19 233				344 8, 264
Boats: Motor Other Apparatus:		36 18	2 2	14	103	21 174		1, 068 496
Number Length, yards Yards at mouth		4, 261	2	33 226	2, 369	183	228.	

Fisheries of the Puget Sound district of Washington, 1930—Continued CATCH: BY GEAR

		UAT	CH:	BY	GEAF	77/1						
strict could be seen and					П	n) asis		Gill nets				
Species	P	urse s	seines	S	Haul seines			D	rift	Set		
	Pou	nds	Val	ue	Poun	ds Va	lue	Pounds	s Value	Pounds	Value	
FISH										- 17		
Dolly Varden trout					1,	995	160					
Flounders:		7000			8	317	316		1000	1,078	\$41	
Other					11.		319	5	54 \$2		- Unacti	
Grayfish					99,		348			5, 100	18	
Herring "Lingcod"					1.	900	49					
"Lingcod" Perch Rockfishes					1, 44, 11,	156 1,	810					
Rockfishes		16		\$1	11,							
Blueback, red or sockeye	17, 500	2, 681	1,497	7.140	80,	122 9.	535	23, 15	2, 756 18 132, 924 4, 426			
Chinook or king	533	3 855	39,	, 508	34,	012 4,	115	1, 098, 54	8 132, 924			
Chum or keta.	9, 03	7, 570		$\frac{464}{959}$		835	25	295, 08 2, 71	5 4, 426			
Humpback or pink Silver or coho	4, 896	6, 778		,664	29,	272 2,	166	521, 82	38, 615	1,016	75	
Skates						376	11			76	2	
Smelt		702		70	253,		269	25, 04	3 507			
Steelhead troutSturgeon		168		8								
Other fish						754	16					
Total	32, 203	3,870	1, 909	, 814	583,	662 36,	538	1, 966, 42	24 182, 303	7, 270	136	
SHELLFISH	10.00,111	1,17	161	00				_				
OctopusSquid					11.	128	556			1,686	81	
Grand total				_			=		=			
	1						_					
			Line	es								
Species	Trawl,		nd		Tro	011		Pound	nets	Brush	weirs	
	hs	and		_			-					
	Pounds	Va	lue	Po	unds	Value	P	ounds	Value	Pounds	Value	
FISH	1,00							T				
Cod	9, 977, 02		1, 190									
Dolly Varden trout	350	3	25									
Flounders: "Sole"	. 58	8	2		1-1-			865	\$33			
								2, 425				
Grayfish	140, 550				0 600	\$1,928		524	62	,		
Herring.	21, 64	7 7	126					20,300		437, 800	\$2,579	
Herring	863, 958	8 3			13,001	433	3					
Perch Rockfishes			45 2 643		11, 035	345	5	185				
SablefishSalmon:		8 12	7, 790						;			
Blueback, red or sockeye Chinook or king				5. 23	609 37, 543	553, 979	5,	525, 996 595, 184	591, 282 459, 518			
Chum or keta				0, 20	,, 010		1,	786, 880	9, 443			
Humpback or pink				0.00	380			35,675	963			
Silver or cohoSkates	1:	8	1	2, 96	55, 035	161, 51	2,	282, 480	148, 361			
Steelhead trout								69, 255	9,692			
Sturgeon	42						-	896	45			
Other fish	-	-	0.000	0.0	(7 00:	710 0	10	200 225	1 010 505	407 000	0.550	
Total	27, 032, 48	1,86	9, 933	8, 24	1, 291	718, 277	13,	320, 665	1, 219, 595	437, 800	2,579	
SHELLFISH	04.01		1.047	1				400			ficial actor	
Octopus	84, 31	-	4, 047	-	47.001	710 0	10	408	20	497 900	0.550	
Grand total	27, 116, 80	1,87	3, 980	8, 2	17, 291	718, 27	113,	321, 073	1, 219, 615	437, 800	2,579	

Fisheries of the Puget Sound district of Washington, 1930—Continued CATCH: By GEAR—Continued

	Dip nets		Drag ba	ag nets	Reef	nets	Beam t	rawls
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH	a 7 elic		er sin	an't			1119	
Flounders: "Sole" Other Grayfish							261, 257 78, 675 124, 030	\$9, 928 2, 282 444
Herring	3, 170	\$18	100	1			82, 347	2, 15
Perch Rockfishes Salmon:			12, 797 53	525			183 12, 270	390
Blueback, red or sockeye Chinook or king					264	26		
Chum or keta					2, 712	176	700	
SmeltOther fish	481	32		11, 054 80			4, 115	86
Total	3, 876	55	181, 461	11, 669	5, 162	380	563, 577	15, 310
SHELLFISH Shrimp Scallops							88, 149 11, 583	6, 696 3, 564
Total					******		99, 732	10, 263
Grand total	3,876	55	181, 461	11,669	5, 162	380	663, 309	25, 573

2	Traps		Tongs at	nd rakes	Shovels	
Species	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH Crabs	443, 278	\$23, 574				
	440, 270	920, 019			507, 983	\$37,759
Japanese, market Native, market			69, 646 294, 466	\$33, 463 244, 404		
Total	443, 278	23, 574	364, 112	277, 867	507, 983	37, 759

Fisheries of the coastal district of Washington, 1930 OPERATING UNITS: BY GEAR

		Na. de la co	10000		1.1	1.00000
	Gill	nets	Li	nes		11 (CT)
Item	Drift, salmon	Set, salmon	Set	Troll	Pound nets	Dip nets
Fishermen: On vessels.	Number	Number	Number	Number 12	Number	Number
On boats and shore	130	190	13	10	61	30
Total	130	190	13	22	61	30
Vessels: Motor Net tonnage				6 48		
Boats: Motor Other	106	63 157	4 9	7	56 53	
Apparatus: Number Square yards	106 199, 192	271 91, 302	13	64	100	30
Hooks			1,300	224		

Fisheries of the coastal district of Washington, 1930—Continued OPERATING UNITS: By GEAR—Continued

Item	Drag bag nets	Traps,	Tongs and rakes	Shovels	Spears	Total, exclusive of dupli- cation
Fishermen: On vessels	Number	Number	Number 2	Number	Number	Number 14
On boats and shore	8	121	21	2, 664	14	2, 786
Total	8	121	23	2, 664	14	2, 800
Vessels: Motor		01 10	1 8			7 56
MotorOther	2	112 9	8 17			301 234
Apparatus: Number Length, yards	2 120	4, 095	27	2, 664	14	

CATCH: BY GEAR

		Gi	ll nets		Lines				
Species	Drift		Set 1		Set		Troll		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
FISH			A made of						
Carp Halibut				\$194			3, 518	\$340	
"Lingcod" Perch Rockfishes						\$43	61, 097 19, 970	178	
Salmon: Blueback, red or sockeye	71111		1, 393, 838	204, 894					
Chinook or king Chum or keta	286, 097 135, 684	\$13, 160 678	86, 411 374, 940	3, 975 1, 875			841, 024	100, 763	
Silver or coho Steelhead trout	291, 060 340	11, 351 22	572, 650 103, 340	22, 333 6, 820			535, 925	31, 347	
Sturgeon	7, 470	224							
Total	720, 051	25, 435	2, 537, 662	240, 091	1,432	43	1, 461, 534	133, 23	

College of the second second second	Pound nets		Dip	nets	Drag bag nets	
Species	Pounds	Value	Pounds	Value	Pounds	Value
Salmon: FISH Chinook or king Chum or keta Silver or coho Smelt	182, 597 872, 220 648, 220	\$8, 399 4, 361 25, 281	105, 600	\$5, 280	10, 040	\$502
Steelhead trout	5, 230	345				****
Total	1, 708, 267	38, 386	105, 600	5, 280	10, 040	502

	Traps		Tongs ar	nd rakes	Shovels	
Species	Pounds	Value	Pounds	Value	Pounds	Value
CrabsSHELLFISH	1, 379, 160	\$91, 714				
Clams: Hard					6, 765 799, 516	\$840 152, 130
Oysters: Eastern, market Japanese, market			1, 970 158, 672	\$1,851 49,412		
Native, market	1, 379, 160	91, 714	8, 193 168, 835	6, 098 57, 361	806, 281	152, 970

¹ Includes catch by spears.

Fisheries of the Columbia River district of Washington, 1930 OPERATING UNITS: BY GEAR

		Gill 1	nets	Li	nes		Fish wheels	Dip	Total, exclusive
Item	Haul	Drift, salmon	Set, salmon	Set	Troll	Pound			of duplica- tion
Fishermen: On vessels On boats and shore	Number 498	Number 720	Number 106	Number 29	Number 12 202	Number 208	Number 26	Number 122	Number 12 1, 747
Total	498	720	106	29	214	208	26	122	1, 759
Vessels: Motor Net tonnage Boats: Motor					6 53				6 53 890
Other	62	010	46	8	100	124			231
Apparatus: Number Length, yards	57	543	271	55	724	381	39	122	
Square yards Hooks.		1, 292, 883	66, 124	5, 500	3, 258				

CATCH: BY GEAR

			. DI GEAL		l nets		1		
Species	Haul	seines	D	Drift		Set		Lines—Set	
	Pounds	Value	Pounds	Value	Pound	s Valu	e Pounds	Value	
Carp	208, 246	\$6, 247							
Blueback, red or sockeye Chinook or king Chum or keta. Silver or coho	897, 786 14, 447 17, 147	6, 561 114, 019 72 823 6, 623	3, 119, 732 187, 761 188, 789	393, 08 93 9, 06	6 65, 203 8 2, 977 2 2, 756	8, 21 7 1 1 13	5		
Steelhead trout Sturgeon	255, 355	21, 705 432	397, 104	33, 75	4 48, 55	4, 12	7		
Total	1, 772, 805	156, 482	4, 055, 145	452, 46	3 135, 133	3 14, 31	0 2, 345	132	
Species	Lines-	-Troll	Pound	nets	Fish v	vheels	Dip n	iets	
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Salmon: Blueback, red or sockeye. Chinook or king. Chum or keta. Silver or coho.	1, 594, 381	98, 852	368, 014 1, 036, 224	\$14, 053 249, 009 1, 840 44, 558	54, 934 173, 537 1, 024 2, 596	\$9, 339 21, 866 5 112	30, 636 153, 793 5, 619 3, 920	\$5, 208 19, 378 28 169	
Shad Smelt Steelhead trout Sturgeon	260	22	121, 751 1, 061, 073 10, 523	2, 435 89, 130 452	26, 861 3, 130	373 2, 256 135	1, 607, 416 80, 872 39	24, 111 6, 793	

1, 979, 943 154, 357 4, 964, 734 401, 477 280, 713

34, 086 1, 882, 295

Industries related to the fisheries of Washington, 1930

TRANSPORTING

Item	Puget Sound district	Coastal district	Columbia River district	Total
Persons engaged on vessels	137	2	21	160
Vessels motor: 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons 51 to 60 tons 81 to 90 tons	8 14 13 8 5 1	2	10 2	26 16 13 8 5
TotalNet tonnage	50 1, 291	2 16	12 118	1, 425

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Establishments.	64	32	10	106
Persons engaged: Proprietors Salaried employees	84	34	7	125
	146	26	22	194
Wage earners— Average for season Average for year	1, 428	437	269	2, 134
	775	76	131	982
Pald to salaried employees	\$521,037	\$63, 324	\$64, 875	\$649, 236
	893,984	90, 290	164, 392	1, 148, 666
Total salaries and wages	1, 415, 021	153, 614	229, 267	1, 797, 902

PRODUCTS MANUFACTURED

Item	Quantity	Value
Cod:		
Salted 1pounds	3, 092, 877	\$151, 190
Salted, packaged	662, 250	1 88, 904
Ialibut steaks do	89, 938	15, 100
Herring, spiceddo	18, 300	3, 480
ablefish, salteddo	118, 509	8, 877
Salmon:		
Fresh steaks do	34, 917	5, 567
Mild-cureddo	4, 124, 000	884, 514
Salteddo	45, 346	4, 925
Kippered (chinook)	2, 371, 258	479, 347
Smokeddo	126, 062	33, 327
Canned-		
Blueback, red or sockeyestandard cases	376, 244	5, 074, 410
Chinook or kingdo	101, 018	1, 592, 75
Chum or ketado	79, 763	284, 531
Humpback or pinkdo	3,712	23, 700
Silver or cohododo	141, 541	1, 294, 367
Steelhead trout	6, 457	86, 917
Eggs—		
For fooddo	1, 667	15, 68
For baltdo	2, 837	76, 933
Shad:		
Canneddo	2, 088	8, 95
Roe, canneddo	113	3, 616
Clams:		
Hard—	4 100	4.00
Fresh-shucked gallons	4, 100	6, 21
Canned, whole, minced, and juicestandard cases	17, 856	78, 35
Razor—	45, 153	416, 345
Canned, whole, minced, chowder, and Juicedo	90, 100	415, 04

¹ The cod were saited in Alaskan waters.
² This figure is included in the total, however, it should be explained that it represents a further manufacture of salted cod already included in the table.

Industries related to the fisheries of Washington, 1930—Continued WHOLESALE AND MANUFACTURING-Continued

PRODUCTS MANUFACTURED-Continued

Item	Quantity	Value
Oysters: Western, fresh-shuckedgallons	28, 375	\$225, 241
Japanese, fresh-shuckeddo	25, 000	87, 500
Unclassified products Packaged 3 Canned 5 Meal, salmon and halibut 6 Oil, salmon and halibut Miscellaneous 7.	(4) 312 1, 050 122, 458 (4)	47, 992 4, 420 70, 071 29, 973 47, 283
Total		11, 150, 49

³ Includes fresh and frozen steaks of "lingcod" and rockfish; packaged fresh crab meat; and fresh-shucked eastern oysters and scallops.

4 Data not available.

5 Includes canned herring for bait and dog and cat food.

6 Includes small amount of salmon-egg meal.

7 Includes canned sturgeon and crabs; smoked herring; kippered sablefish; and mild-cured shad.

Note.—Some of the above products may be have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

OREGON

Fisheries of Oregon, 1930

CATCH: BY DISTRICTS

	Columbia Ri	ver district	Coastal	district
Species	Pounds	Value	Pounds	Value
FISH				
Flounders: "Sole" Other	3, 272	\$125	4, 451 37, 722	\$132 1, 220
Hake			265	3
Halibut Herring	137, 069	17, 623	275, 575 138, 756	29, 860 2, 408
"Lingcod"	53, 907	1,868	133, 603 42, 405	2, 727 945
Rockfishes Sablefish Salmon:	26, 080 83, 645	768 3, 017	92, 608 106, 624	2, 654 3, 192
Blueback, red or sockeye. Chinook or king. Chum or keta. Silver or coho.	279, 674 10, 548, 627 318, 771 3, 580, 402 832, 518	47, 575 1, 334, 326 1, 594 210, 810 16, 651	1, 315, 782 266, 843 4, 555, 529 479, 327	112, 330 1, 334 217, 368 9, 589
Smelt Steelhead trout Striped bass	188, 229 1, 488, 220	3, 893 126, 124	5, 943 391, 353 15, 664	326 26, 395 1, 942
Sturgeon Tuna, albacore	74, 581 255	3, 207 33	4, 201 2, 911	182 207
Total	17, 615, 250	1, 767, 614	7, 869, 562	412, 814
SHELLFISH			Coll will	
Crabs Crawfish Clams:	176, 800	17, 680	725, 532	44, 106
Razor			38, 372 25, 068 8, 177	7, 197 1, 567 5, 310
Total	176, 800	17, 680	797, 149	58, 180
Grand total	17, 792, 050	1, 785, 294	8, 666, 711	470, 994

Fisheries of the Columbia River district of Oregon, 1930 OPERATING UNITS: BY GEAR

		Gill	nets	nets Lines		1 - 1 V			Total,
	Haul seines	Drift,	Set, salmon	Trawl and set	Troll	Pound nets	Dip nets	Traps, craw- fish	exclu- sive of dupli- cation
Fishermen: On vessels	Number	Number	Number	Number 22	Number 44	Number	Number	Number	Number 66
On boats and shore	530	1, 310	86	58	290	37	184	58	2, 456
Total	530	1, 310	86	80	334	37	184	58	2, 522
Vessels, motor Net tonnage Boats:				6 65	22 217				28 282
Motor	32	921	84	46	248	22		46	1, 315
OtherApparatus:	46		3	12	••	18		12	86
Number Length, yards	23, 273	921	183	392	1, 201	61	184	986	
Square yards		2, 910, 360	47, 580	39, 200	5, 400				

CATCH: BY GEAR

Species	Haul s	seines	Gill	nets	Lines—Trawl and set		
Jan P 30s bus I wat Y	Pounds	Value	Pounds	Value	Pounds	Value	
FISH	Mark I	11007					
Flounders; "Sole" Halibut					3, 272 137, 069	\$123 17, 623	
"Lingcod" Rockfishes					53, 907 26, 080	1, 868	
Sablefish					83, 645	3, 017	
Blueback, red or sockeye.	76, 154	\$12,946	165, 579	\$28, 179			
Chinook or king	1, 887, 311 23, 827	237, 801	7, 428, 041 252, 314	935, 933 1, 262			
Silver or coho	49, 488 626, 937	2, 375 12, 539	353, 808 157, 645	16, 983 3, 153			
Smelt			53, 500	1,872			
Steelhead trout Sturgeon Tuna, albacore	479, 589 1, 556	40, 765 67	631, 949 41, 181	53, 716 1, 771	29, 491 255	1, 268 33	
Total	3, 144, 862	306, 612	9, 084, 017	1, 042, 869	333, 719	24, 702	

	Lines-	-Troll	Pound	l nets	Dip	nets	ets Traps		
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
FISH Salmon: Blueback, red or sockeye. Chimook or king. Chum or keta. Silver or coho. Shad. Smelt. Steelhead trout. Sturgeon SHELLFISH Crawfish.	624, 179 2, 886, 150 1, 066	\$89, 882 178, 941 91	23, 077 355, 078 41, 357 287, 606 47, 851 296, 533 1, 739	\$3, 923 38, 704 207 12, 367 957 24, 909 75	14, 864 254, 018 1, 273 3, 350 85 134, 729 79, 083 614	\$2, 527 32, 006 6 144 2 2, 021 6, 643 26	176, 800	\$17, 680	
Total	3, 511, 395	268, 914	1, 053, 241	81, 142	488, 016	43, 375	176, 800	17,680	

Fisheries of the coastal district of Oregon, 1930 OPERATING UNITS: BY GEAR

		Gill	Gill nets Lines		Lines				Total, exclu-
Item	Haul seines	Drift, salmon	Set, salmon	Trawl and set	Troll	Traps, crab	Traps, crab Tongs	Shovels	
Fishermen: On vesselsOn boats and shore	Number	Number 640	Number	Number 6 2	Number 12 138	Number 223	Number	Number 246	Number 16 1, 345
On boats and shore	0	040	319	. 2	155	223	- 4	240	1, 540
Total	6	640	319	8	150	223	2	246	1, 361
Vessels: Motor Net tonnageBoats:				2 24	6 47				7 63
Motor	2 2	472 7	174 161	1	116	198 25	1 2		863 187
Apparatus: Number Length, yards		479	941	95	517	6, 690	2	246	
Square yards Hooks		602, 920	151, 181	9, 500	2, 326				

CATCH: BY GEAR

Species	Haul	Haul seines		nets	Trawl a	and set	Troll	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH							Transplant at	L. Philyson
Flounders:	475	\$12			3, 976	\$120		19010
Other Hake		232	19, 321	\$563	12, 297	425		
Halibut					273, 698	29, 663	1,877	\$197
Herring "Lingcod"	6,822	120	131, 934	2, 288	91, 132	1, 863	42, 471	864
Perch		98	39, 176	847				
Rockfishes Sablefish					71, 722 106, 624	2, 084 3, 192	20, 886	570
Salmon: Chinook or king Chum or keta			1, 035, 324 266, 813	85, 686 1, 334			280, 458	.26, 664
Silver or coho			2, 957, 095 479, 327	119, 864 9, 589			1, 598, 434	97, 504
SmeltSteelhead trout	856	43	5, 087 390, 348	283 26, 325			1, 005	70
Striped bass Sturgeon Tuna, albacore		74	15, 050 4, 158	1, 868 179	20 20	2 2	23 2, 891	1 205
Total	18, 365	582	5, 343, 663	248, 826	559, 489	37, 351	1, 948, 045	126, 055

Species	Tr	aps	Тог	ngs	Shovels	
Species	Pounds	Value	Pounds	Value	Pounds	Value
SHELLFISH Crabs	725, 532	\$44, 106	0/0			
RazorSoft					38, 372 25, 068	\$7, 197 1, 567
Oysters, native, market			8, 177	\$5,310		
Total	725, 532	44, 106	8, 177	5, 310	63, 440	8, 764

Industries related to the fisheries of Oregon, 1930 TRANSPORTING IN COLUMBIA RIVER DISTRICT

Persons engaged on vessels	48
Vessels, motor: 5 to 10 tons	18
TotalNet tonnage	$\frac{27}{286}$

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Columbia River district	Coastal district	Totai
Establishments. Persons engaged:	35	19	54
Persons engaged: Proprietors Salaried employees Wage earners—	32	15	47
	56	17	73
Average for seasonAverage for year	660	74	734
	409	50	459
Paid to salaried employees	\$199, 844	\$55, 685	\$255, 529
Paid to wage earners	478, 246	59, 203	537, 449
Total salaries and wages	678, 090	114, 888	792, 978

PRODUCTS MANUFACTURED

Item	Quantity	Value
Salmon:		
Mild-curedpour	nds 546, 150	\$123, 317
Canned—		
Blueback, red or sockeyestandard ca	ses 5, 923	124, 383
Chinook or kingd	0 206, 276	3, 227, 599
Chum or ketad	0 8, 649	29, 671
Silver or cohod	0 106, 868	1, 138, 930
Steelhead d	0 11, 588	183, 496
Shad:		
Canned d	0 7,364	26, 114
Roe, cannedd	0 813	26, 004
Crab meat, packaged (fresh-cooked)	nds 126, 475	59, 365
Clams, razor: Canned, whole, minced, and juicestandard ca	ses 956	8, 631
Oysters, western, fresh-shucked galle	ons 9,530	70, 884
Other products 1	(2)	69, 432
Total		5, 087, 826

¹ Includes salted sablefish; canned crabs; fresh-shucked eastern and Japanese oysters; canned salmon eggs (for bait); salmon meal; and salmon oil.
² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

CALIFORNIA

Fisheries of California, 1930

CATCH: BY DISTRICTS

	Northern	district	San Franc	cisco district	Monterey	district
Species	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Anchovies	Line City City	A VALUE OF THE	261, 850	\$3, 142	43, 500	\$74
Barracuda				40, 112	30	ψ, τ
Carp			67, 012	1, 315		
Catfish	43, 343	\$6, 401	389, 848	51, 827		
Cod			9, 259, 119	150, 928		
EelsFlounders:			- 10	The I		
"California halibut"	10.2			1.11.100	24, 412	2, 799
"Sole"	1, 569, 399	95, 889	8, 059, 671	493, 201	24, 412 904, 119 104, 739	53, 84
"Sole"	82, 203	3, 489	815, 450	34, 064	104, 739	4, 47
Grayfish	2, 345	23	221, 672	2, 212	8, 925	89
Hake	412 050	46, 519	50, 983	510	5, 105	5.
HalibutHardhead	413, 958	40, 519	31, 119 38, 857	2, 955 5, 257		
Herring	103, 183	1, 692	601, 927	5, 437		11111111111
Horse mackerel					95, 271	1, 030
Kingfish	I comment of		40, 337 581, 902	1, 230	95, 271 124, 607 196, 354	1, 030 4, 286 10, 150
"Lingcod" Mackerel	511, 979	20, 067	581, 902	24, 514	196, 354	10, 150
Mackerel	32, 426	1, 296	12, 362 112, 486	371 5, 639	1, 363, 106	42, 489
Perch Pilchard or sardine	32, 420	1, 290	48, 468, 957	195, 812	14, 957 259, 097, 933	1, 177, 617
Pompano			20, 100, 001	100,012	516	214
Rock bass					16	1
Rockfishes	253, 568 627, 051	8, 480 26, 387	1, 027, 496 461, 348	34, 321	2, 825, 970 267, 589	98, 261
Sablefish	627, 051	26, 387	461, 348	12, 421	267, 589	8, 366
Salmon	3, 501, 539 229	287, 900 5	2, 221, 940	209, 336	279, 409 817	31, 528
Sculpin Sea bass, white or squeteague	216	7	48, 334	3, 513	45, 677	3, 069
Shad	210		1, 199, 459 221, 324 198, 406 18, 528 5, 207 866, 808	45, 314	10, 011	5, 002
Skates	3, 030	61	221, 324	4, 426	28, 871	570
Smelt	72.893	4, 528	198, 406	10, 937	339, 963	18, 105
Splittail			18, 528	555		
SquawfishStriped bass			5, 207	300 90, 387		
Suckers			1, 990	100	500000000000000000000000000000000000000	
Tomcod	712	28	22, 460	898		
Tuna and tunalike fishes:	1					
Albacore					172, 962	12, 570
Bonito	144 754	8, 974	21 -20	0 000	1, 166	58
WhitebaitOther fish	144, 754 70, 343	1, 677	31, 633 12, 156	2, 688 277	2, 996 12, 731	261 528
Other Ilsh	70, 343	2,011	12, 100		12, 751	020
Total	7, 433, 171	513, 423	75, 350, 651	1, 393, 888	265, 961, 741	1, 471, 829
SHELLFISH, ETC.			To Ave to	Total and a second	The state of the state of	
Crabs	92, 448	9, 638	1, 898, 832	230, 083	1, 104	162
Shrimp			2, 687, 831	40, 318	1, 104 8, 736	1,954
Abalone					631, 795	126, 359
Clams:	7	0	01 504			
Cockle Pismo		2	21, 534	7, 594	2, 409	1, 230
Soft			37, 303	9, 474	2, 409	1, 250
Mixed		1, 028	246	70		
Mussels			3	1	30	5
Octopus	5, 141	410	8, 578	740	63, 003	6, 069
Oysters: Eastern, market			72, 796	29, 118		
Native, market			4, 949	3, 093		
Squid			4, 549		10, 937, 974	115, 614
Terrapin			58	7		
Total	102, 512	11,078	4, 732, 130	320, 498	11, 645, 051	251, 393
WHALE PRODUCTS						
Whale oil			3, 844, 209	166, 953		
Grand total	7, 535, 683	524, 501	83, 926, 990	1, 881, 339	277, 606, 792	1, 723, 222

Fisheries of California, 1930—Continued

CATCH: By DISTRICTS-Continued

admin and the second	South	ern district-	-Off California	
Species	San Pedro	division	San Diego	division
States - States - Calend - Change L	Pounds	Value	Pounds	Value
FISH			7, 144	
Anchovies	10, 311	\$284	3, 900	\$39
Barracuda	2, 554, 875	186, 151	958, 703	63, 107
Cabrilla	-,,		471	17
Carp	2, 375	175		
Eels	10	1		
Flounders:	max 000	00.400	400 100	NEWS TREES
"California halibut"	731, 066	93, 132	109, 465	11, 829
"Sole"	379, 366	16, 324	6, 498	583
Other Flyingfish	17, 341 48, 458	728 1, 805	43	3
Grayfish	288, 167	8, 703	124, 633	582
Halfmoon	36, 765	2, 720	124, 000	382
Herring	259	13	43, 579	565
Horse mackerel	273, 557	10, 112	20,010	000
Kingfish	289, 743	5, 548	2, 471	79
"Lingcod"	3, 408	178		
Mackerel	14, 473, 352	184, 846	681, 280	13, 840
Mullet	11, 096	1, 055	9, 657	858
Perch	104, 431	3, 444	3, 377	98
Pilchard or sardine	182, 711, 875	977, 784	4, 171, 982	26, 219
Pompano	1, 351	757	356	142
Rock bass Rockfishes	345, 636 2, 044, 311	24, 459 89, 218	130, 020	5, 644
Sablefish	5, 506	405	1, 053, 604	50, 445
Salmon	5, 500	403		
Sculpin Sea bass:	65, 567	7, 009	23, 043	1, 982
Black	103, 246	5, 292	84, 227	3, 690
White or squeteague	886, 685	80, 406	258, 373	18, 818
Sheepshead	203, 593	7,470	37, 461	1, 454
Skates	31, 410	662	1, 755	34
Smelt	431, 409	19,874	13, 927	739
Swordfish Tuna and tunalike fishes:	196, 425	26, 609	365, 070	48, 732
Albacore	107, 987	10,857	2, 168	224
Bluefin	15, 443, 346	881, 976	155, 546	8, 556
Ronito	2, 624, 642	83, 143	1, 240, 688	38, 363
Skipjack or striped tuna	1, 109, 680	44, 387	1, 905, 595	76, 224
Yellowfin	12, 564	795	22, 989	1, 379
Whitebait	55	4		
Whitefish	115, 299	8, 630	99, 267	3, 836
Yellowtail	241, 838	13, 498	973, 121	39, 069
Other fish	33, 990	2, 338		
Total	225, 941, 001	2, 800, 793	12, 483, 269	417, 150
SHELIFISH, ETC.				
Crabs	12	3	- 1	
Sea crawfish or spiny lobster	267, 670	53, 160	106, 780	21, 074
Abalone	15, 521	3, 972	100,700	21, 3/1
Clams:	2,22			
Cockle	8, 510	2,063		
Pismo	19, 363	8, 380		
Octopus	258	46		
Squid	30, 376	1, 672	1, 112	86
Total	341, 710	69, 296	107, 892	21, 160

Fisheries of California, 1930—Continued

CATCH: B1 DISTRICTS-Continued

	South	ern district-	-Off Latin A	merica	Total southern	
Species	San Pedr	ro division	San Dieg	go division	dist	riet
	Pounds	Value	Pounds	Value	Pounds	Value
FISH						
Anchovies					14, 211	\$32
Barracuda	937, 715	\$96, 374	312, 443	\$33, 487	4, 763, 736	379, 11
Cabrilla		22, 545	121, 674	4, 528	509, 539 2, 375	27, 09
Eels					2, 373	1,
Flounders:					1	to the said
"California halibut"	12, 562	1, 234	189, 136	19, 936	1, 042, 229	126, 13
"Sole"						16, 90
OtherFlyingfish		1			17, 484 48, 458	73 1, 80
Gravfish	1, 555	62			414, 355	9, 34
Halfmoon					36, 765	2, 72
Herring					43, 838	57
Horse mackerel						10, 11
Kingfish					292, 214	5, 62
"Lingcod" Mackerel			1, 264	23	3, 408 15, 155, 896	198, 70
Mullet	554	37	1, 201	20	21, 307	1, 95
Perch	660	30			108, 468	3, 57
Pilchard or sardine					186, 883, 857	1, 004, 003
Pompano	10.070				1,707	899
Rock bass	13, 972	822	18, 519 8, 405	1, 491 429	508, 147	32, 416 140, 093
Sablefish			0, 400	429	3, 106, 320 5, 506	40.
Salmon					6	10.
Sculpin					88, 610	8, 99
Sea bass:	71 150	0.010			201 200	40.00
Black White or squeteague	71, 152 128, 193	3, 818 14, 426	135, 384	7, 078	394, 009	19, 878 137, 893
Sheepshead	377	14, 426	135, 384 258, 944 2, 258	24, 243 96	1, 532, 195 243, 689	9, 03
Skates		10	2, 200	30	33, 165	696
Smelt			1, 082	79	446, 418	20, 692
Spanish mackerel	19, 620	1, 284	23, 345 1, 234	757	42, 965 562, 729	2, 04
Swordfish Tuna and tunalike fishes:			1, 234	154	562, 729	75, 49
Albacore		15	99, 151		110 155	11, 081
Bluefin	6, 150, 000	338, 341	172, 390	9, 144	110, 155 21, 921, 282 5, 163, 094	1, 238, 017
Bonito	1, 214, 567	42, 123	83, 197	2, 879	5, 163, 094	166, 508
Skipjack or striped tuna	5, 737, 340	203, 878	11, 732, 972	465, 347	20, 485, 587	789, 836
Yellowfin Whitebait	12, 537, 771	754, 534	44, 080, 857	2, 639, 509	56, 654, 181	3, 396, 217
Whitefish	360	24	10, 176	470	225, 102	12, 960
Yellowtail	2, 414, 674	111, 829	1, 140, 795	45, 380	4, 770, 428	209, 776
Other fish	4, 874	236		10,000	38, 864	2, 574
m-+-1	00 000 110	1 501 010	E0 004 005		200 001 001	
Total	29, 633, 440	1, 591, 619	58, 294, 075	3, 255, 030	326, 351, 785	8, 064, 592
SHELLFISH, ETC. Crabs					**	1807
Sea crawfish or spiny lobster			1, 019, 689	188, 911	1, 394, 139	263, 145
Abalone			1, 013, 003	100, 311	15, 521	3, 972
Clams:					20,021	0,011
Cockle					8, 510	2, 063
Pismo					19, 363	8, 380
Octopus Squid					258 31, 488	1, 758
Turtles			580	58	580	1, 158
Total			1, 020, 269	188, 969	1, 469, 871	279, 425
	00.000.410	1 501 010				
Grand total	29, 633, 440	1, 591, 619	59, 314, 344	3, 443, 999	327, 821, 656	8, 344, 017

Fisheries of California, 1930—Continued CATCH: By WATERS

the control of the America	Off Calife	ornia ¹	Off Latin	America
Species -	Pounds	Value	Pounds	Value
FISH			orly merchanic	
Anchovies	319, 561	\$4, 214		
Barracuda	3, 513, 608	249, 261	1, 250, 158	\$129, 86
Cabrillo	471	17	509, 068	27, 073
Carp	69, 387	1, 490		
Catfish	433, 191	58, 228		
Cod	9, 259, 119	150, 928		
Eels	20	2		
Flounders: "California halibut"	864, 943	107, 760	201, 698	21, 170
"Sole"	10, 919, 053	659, 840	201, 098	21, 11
Other	1, 019, 776	42, 761	100	
Flyingfish	48, 458	1,805		
Grayfish	645, 742	11, 609	1,555	62
Hake	56, 088	561		
Halfmoon	36, 765	2,720		
HalibutHardhead	445, 077	49, 474 5, 257		
Herring	38, 857 748, 948	7, 707		
Horse mackerel	368, 828	11, 142		
Kingfish	457, 158	11, 143		
"Lingcod"	1, 293, 643	54, 909		
Mackerel	16, 530, 100	241, 546	1, 264	23
Mullet	20, 753	1, 913	554	37
Perch Pilchard or sardine	267, 677	11, 171	660	30
Pompano	494, 450, 747 2, 223	2, 377, 432 1, 113		
Rock bass	475, 672	30, 104	32, 491	2, 313
Rockfishes	7, 204, 949	280, 725	8, 405	429
Sablefish	1, 361, 494	47, 579		
Salmon	6, 002, 894	528,765		
Sculpin	89, 656	9,017		
Sea bass: Black	187, 473	8,982	206, 536	10, 896
White or squeteague	1, 239, 285	105, 813	387, 137	38, 669
Shad.	1, 199, 459	45, 314	001, 101	0.5, 00.
Sheepshead	241, 054	8,924	2, 635	11
Skates	286, 390	5, 753		
Smelt	1, 056, 598	54, 183	1,082	79
Spanish mackerel Splittail	10 500	555	42, 965	2, 04
Squawfish	18, 528 5, 207	300		
Striped bass.	866, 808	90, 387		
Suckers	1,990	100		
Swordfish	561, 495	75, 341	1, 234	154
Tomcod	23, 172	926		
Tuna and tunalike fishes: Albacore	283, 117	23, 651		
Bluefin	15, 598, 892	890, 532	6, 322, 390	347, 48
Bonito	3, 866, 496	121, 564	1, 297, 764	45, 00
Skipjack or striped tuna	3, 015, 275	120, 611	17, 470, 312	669, 22
Yellowfin	35, 553	2, 174	56, 618, 628	3, 394, 043
Whitebait	179, 438	11, 927		
Whitefish	214, 566	12, 466	10, 536	157 200
YellowtailOther fish	1, 214, 959 129, 220	52, 567 4, 820	3, 555, 469 4, 874	157, 209 236
Total	587, 169, 833	6, 597, 083	87, 927, 515	4, 846, 649
SHELLFISH, ETC.				-77-
Crabs	1, 992, 396	239, 886		de en la
Shrimp	2, 696, 567	42, 272		
Sea crawfish or spiny lobster	374, 450	74, 234	1, 019, 689	188, 91
Abalone	647, 316	130, 331		
Clams:	00.051	0.050		
CocklePismo	30, 051 21, 772	9, 659 9, 610		
Soft	37, 303	9, 610		
Mixed	5, 162	1, 098		
Mussels	33	6		
Octopus	76, 980	7, 265		
Oysters:	70 700	00 110		
Eastern, market Native, market	72, 796 4, 949	29, 118 3, 093		

¹ The catch of cod was taken in Alaska waters.

Fisheries of California, 1930-Continued

CATCH: BY WATERS-Continued

	Off Cali	fornia	Off Latin America		
Species	Pounds	Value	Pounds	Value	
SHELLFISH, ETC.—continued	11.16(4)		in the second		
Squid	10, 969, 462 58	\$117, 372			
Terrapin Turtles Turtles			580	\$58	
Total	16, 929, 295	673, 425	1, 020, 269	188, 969	
WHALE PRODUCTS		7.5		- Looking	
Whale oil	3, 844, 209	166, 953			
Grand total	607, 943, 337	7, 437, 461	88, 947, 784	5, 035, 618	

Fisheries of the northern district of California, 1930 OPERATING UNITS: BY GEAR

		120	Gill	nets	Li	nes
Item		Haul seines	Drift, salmon	Other	Set and hand	Troll
Fishermen: On vessels		Number	Number	Number	Number	Number
On boats and shore		32	251	13	16 156	14 234
Total		32	251	13	172	248
Vessels:					7777	910111111
Motor Net tonnage					7 52	7 52
Boats: Motor- Other- Apparatus:		17 4	166	12	103 17	198
Number		18	166	12	369	857
Length, yards Square yards Hooks		2, 685	158, 253	8, 862	57, 907	4, 040
2		Paran-	Tr	aps		Total,
Item	Dip nets	zella nets	Crab	Octopus	Shovels	of dupli- cation
Fishermen: On vessels	Number	Number	Number	Number	Number	Number
On boats and shore			28	1	9	24 552
Total	42	6	28	1	9	576
Vessels: Motor Net tonnage Boats:		2 14				10 73
Motor Other	42		22	1		206 212
Apparatus: Number Yards at mouth		1 17	408	10	9	Philip

Fisheries of the northern district of California, 1930 — Continued CATCH: By GEAR

	TERMS						Gast's			Lines		
Species	На	ul sei	nes		Gill	nets	Set a	and h	and		Trol	1
	Pour	ids V	7alue	Pou	nds	Value	Poun	ds	Val	ue 1	Pounds	Value
FISH	-	mV()	die	A-A	nu V	Captures.	e andreas					rental 1
Catfish							43,	343	\$6, 4	101		m)
Flounders: "Sole"	1	3					5, 0	091	1	49	1,000	
Other	3, 9	962	\$180							13		
Halibut	100 1	00 1					400,	613	45, 2	258	11, 443	\$1,08
Herring "Lingcod"	103, 1	.83	, 692				246,	597	10, 0	040	45, 227	1, 22
Perch	31, 5	61 1	, 262	-	801	\$32				710		
RockfishesSablefish							159,	395	5, 5		5, 583	115
Salmon	30, 4	36 1	, 515	667,	975	64, 354		104	26, 1		803, 128	222, 03
Sculpin							_ 10	229		5		
Sea bass, white or squeteague_ Smelt	39, 5	50 0	2, 323	25,	881	1, 790		216		7		
Whitebait	3, 3	78	139	1 19	214	8						
Other fish				- 115	153	10	67,	867	1, 6	605	598	1.
Total	212, 0	79 7	7, 111	695,	024	66, 194	1, 542,	035	95, 1	75 2,	865, 979	224, 465
SHELLFISH	1 - 10/1											
Octopus								953		75		
Grand total	212, 0	79 7	7, 111	695,	024	66, 194	1, 542,	988	95, 2	250 2,	865, 979	224, 462
	1	-						1			ī	
	18/19/	D	ip ne	ets	P	aranzel	la nets		Tra	aps	Sho	vels
Species		Poun	ds	Value	Po	unds	Value	Pour	nds	Value	Pounds	Value
Many Carlot (Carlot 1980)		- 10	-					_	_		-	-
FISH												
Flounders: "Sole"					1.5	64, 378	\$95, 740					
Other			42	\$2	1,0	78, 199 2, 345 1, 902	3, 307					
Grayfish Halibut						2,345	23 181					
"Lingcod"					2	20, 155	8,806					
Perch			64	2								
RockfishesSablefish						88, 590 8, 297	2, 835 207					
Skates						3, 030	61					
Smelt Tomcod		7, 4	53	415		712	28					
Whitebait		141, 1	62	8,827			20					
Other fish		1	15	7		1,610	40					
Total		148, 8	36	9, 253	1, 9	69, 218	111, 228					
SHELLFISH									_			
Crabs								92, 4	148	\$9, 638		
Clams:												
Cockle Mixed											- 7 - 4, 916	1, 02
Octopus								4, 1	188	335		
Total	1000		_					96, 6	636	9, 973	4, 923	1, 030
* Out								20,	500	0, 010	1, 020	2,00

Fisheries of the San Francisco district of California, 1930

OPERATING UNITS: BY GEAR

	Lam-		1				Gill	nets				Li	nes
Item	para nets, sardine	Haul seines	Drif		Dri sea b			rift,	str	rift, iped ass	Other	Set and hand	Troll
Fishermen: On vesselsOn boats and shore	Number 68 69	Numbe		ber 64	Nun	aber	Nu	mber 253	Nu	mber 1	Number 70	Number 133 70	Number 2 270
Total	137	3	-	64		23		253		289	70	203	272
Vessels: Motor. Net tonnage. Sail Net tonnage	7 76											1 9 4 1,722	1 19
Total vessels Total net tonnage.	7 76											5 1, 731	1 19
Boats: Motor. Other. Apparatus: Number	12	1		87 10		15 2 17	T.	126 7		151 9	37 2 64	81 10 619	255
Length, yards Square yards Hooks.	4,080	100					441,		434,		08, 177	55, 843	4, 780
Item	Fyke nets	Bag nets	Paran- zella nets	130	eam awls	Tra	aps	Ha pool wha ing	ns,	Tongs	Rakes	Shov- els	Total, exclu- sive of dupli- cation
Fishermen: On vessels On boats and shore	Num- ber	Num- ber 14 52	Num- ber 86		um- ber	b	um- er 207	Number		Num- ber	Num- ber	Num- ber	Number 345 997
Total	97	66	86	_	22		207		14	21	1	28	1, 342
Vessels: Steam. Net tonnage. Motor Net tonnage. Sail Net tonnage.		3 20	20 312						4 .53 .				4 153 30 408 4 1,722
Total vessels Total net tonnage_		3 20	20 312					18	4 .				38 2, 283
Boats: Motor Other Apparatus:	31 40	8 5			22		206			7 14	<u>i</u>	28	538 89
Number Length, yards Yards at mouth		8, 996	10 170		22 147	4, (086		4	21	1	28	

Fisheries of the San Francisco district of California, 1930—Continued CATCH: By GEAR

Mary same tong the trainer	Lampar	a nets	Haul	seines	Gill nets		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
FISH			GOTT CLT D			uio .	
Anchovies	261, 850	\$3, 142	4, 835	\$232	43, 589	\$705	
Flounders, other		32			1, 302	31	
Grayfish	2, 460	25			12, 602	126	
Herring	3, 485	51			598, 442	5, 386	
Kingfish	22, 160 12, 246	776 367			116		
Mackerel	12, 246	102			110, 550	5, 528	
Pilchard or sardine	48, 468, 957	195, 812			110, 550	0, 020	
Salmon	10, 100, 001	100, 012			1, 214, 084	109, 762	
Sea bass, white or squeteague	3, 739	280	10015		44, 403	3, 219	
Shad					1, 199, 459	45, 314	
Smelt	4, 844	291			193, 562	10, 646	
Squawfish					1, 455	51	
Striped bass					851, 417	88, 485	
Suckers		610			33 108	- 2	
Tomcod Whitebait		2, 614			875	74	
Other fish		2,014			1, 616	49	
Total	48, 828, 503	204, 110	4, 835	232	4, 273, 613	269, 386	

	este y y	Lir	nes		Enle		Peg	noto		
Species	Set and	l hand	Tro	oll	Fyke	nets	Bag	Dag nets		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value		
FISH										
Carp					18, 588	\$378				
Catfish					389, 848	51, 827				
Cod	9, 259, 119	\$150,928				,				
Eels	10	1								
Flounders:		The state of								
"Sole"	3, 146	142								
Other	367	9								
Grayfish	6, 822	68	1,700	\$12						
Halibut	391	38	669	61						
Hardhead					38, 857	5, 257				
"Lingcod"	267, 162	12,022	7, 298	194						
Rockfishes	492, 075	17, 223	3,020	61						
Sablefish	118, 203	3,842								
Salmon		1-1-1-1	1,007,856	99, 574						
Sea bass, white or squeteague_			192	14						
Splittail				LL - U. 75.	18, 528	555				
Squawfish					3, 752	249				
Striped bass		1,902			0,.02					
Suckers	Det Hilliam		100000000000000000000000000000000000000		1, 957	98				
Other fish	2, 166	54	487	11	220	10				
Total	10 104 050	100,000	1 001 000	00 00=	451 550	50.074				
Total	10, 164, 852	186, 229	1, 021, 222	99, 927	471, 750	58, 374				
SHELLFISH, ETC.										
ShrimpOctopus	7, 527	677					1, 296, 247	\$19, 444		
Grand total	10, 172, 379	186, 906	1, 021, 222	99, 927	471, 750	58, 374	1, 296, 247	19, 444		

Fisheries of the San Francisco district of California, 1930—Continued CATCH: By GEAR—Continued

	Paranze	ella nets	Beam t	rawls	Tr	aps	Harpe	ons
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH	7-1-1-1	17 12 100						
Flounders:					100	D. PARIS	100000	
"Sole"	8, 056, 525	\$493,059						
Other	812, 938	33, 992						
Grayfish		1, 981						
Hake		510						
Halibut		2, 856						
Kingfish	18, 177	454						
"Lingcod"	307, 442	12, 298						
Perch		9						0.0000
Rockfishes		17, 037						
Sablefish		8, 579						
Skates		4, 426						
Tomcod		276						
Other fish	7, 667	153						
	.,							
Total	10,585,876	575, 630						
SHELLFISH, ETC.								
Crabs	0.040	380			1, 895, 886	2000 700	A. C. C. SHIPS	
		560	1 201 504	200 074	1, 090, 000	\$229, 100		
Shrimp Octopus		63	1, 391, 584	\$20,874				
Octopus	1,001	0.5						
Total	3, 997	443	1, 391, 584	20,874	1, 895, 886	229, 703		
WHALE PRODUCTS								-
Whale oil							3, 844, 209	\$166, 953
Grand total	10,589,873	576, 073	1, 391, 584	20, 874	1, 895, 886	229, 703	3, 844, 209	166, 953

	То	ngs	Rakes an	d shovels	By hand		
Species	Pounds	Value	Pounds	Value	Pounds	Value	
SHELLFISH, ETC. Clams: Cockle Soft Mixed Mussels Oysters: Eastern, market Native, market Terrapin	72, 796 4, 949		21, 534 37, 303 246 3	\$7, 594 9, 474 70 1	58	87	
Total	77, 745	32, 211	59, 086	17, 139	58	7	

Fisheries of the Monterey district of California, 1930 OPERATING UNITS: BY GEAR

	Purse	Lampa	ıra nets	Gill	nets	Tram-	Lines	
Item	seines, sar- dine	Sar- dine	Squid	Drift, sea bass	Other	mel nets	Set and hand	Troll
Fishermen: On vessels On boats and shore	51	Number 459 312	Number 114 184	Number 31	Number 71	Number 13	Number 14 238	Number 14 204
Total	51	771	298	31	71	13	252	218
Vessels, motor	5 232	37 571	20 274				5 102	7114
MotorOther		25	32	23	42 16	8	182 30	197
Apparatus: Number Length, yards	2 050	62 20, 756	52 10, 220	23	61	8	1, 954	1, 214
Square yards				45, 322	83, 390	12, 480	140, 631	4, 977

Fisheries of the Monterey district of California, 1930—Continued OPERATING UNITS: By GEAR—Continued

Item	Paran- zella nets	Traps, octopus	Rakes	Shovels	Abalone outfits	Total, exclusive of dupli- cation
Fishermen: On vessels	Number	Number	Number	Number	Number 50	Number 557
On boats and shore	6	15	1	8	10	632
Total	6	15	1	8	60	1, 189
Vessels, motor	- 61	100			10 77	52 904
Boats: MotorOther	2	11 1			2	237 35
Apparatus: Number	1 17	141	1	8	12	

CATCH: BY GEAR

Species	Purse	seines	Lampara	nets	Gill	nets	Tramn	nel nets
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH		2					- I kee	
AnchoviesBarracuda			43, 500	\$749	30	\$3		
Flounders: "California halibut" "Sole"			237 140	28 7			13, 946 2, 338	\$1,693 117
Other Horse mackerel			94, 901	1, 012	370	18	184	8
Kingfish "Lingcod" Mackerel			24, 254 25 113, 212	857 1 3, 279	82, 566 1, 419	2, 902	448	24
Perch Pilchard or sardine		\$307, 400	6, 958 194, 789, 676	350 870, 040	7, 740 17, 672	332 177		
Pompano Rockfishes			384 823	166 26	132	48	65	2 7
Sculpin Sea bass, white or sque-							65	7
teague Skates Smelt		23	625 1, 853 60, 844	65 34 3, 443	44, 819 278, 848	2, 977 14, 643	4, 308	96
Tuna and tunalike fishes, bonito	1 100 2		1 00	25 261	658	33		-
Total	64, 290, 776	307, 423	195, 140, 936	880, 343	434, 254	21, 177	21, 354	1, 947
SHELLFISH	-	34 711 152	AN MULT	71 1710				
CrabsSquid			10, 937, 974	115, 614	1, 088	160		
Grand total	64, 290, 776	307, 423	206, 078, 910	995, 957	435, 342	21, 337	21, 354	1, 947

Fisheries of the Monterey district of California, 1930—Continued CATCH: By GEAR-Continued

		Lir	nes				-	
Species	Set and	l hand	Tr	oll	Paranze	lla nets	Traps	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH						-		
Flounders: "California halibut" "Sole" Other Grayfish	5, 362 32, 446 7, 489 280	\$542 1,503 399 3	1, 529 15	\$186 1	3, 338 869, 180 97, 066 8, 645 5, 105	\$350 52, 215 4, 070 86 51		
Hake Kingfish "Lingcod," Mackerel	8, 257 154, 597 1, 245, 875	289 8, 416 39, 088	3, 370 2, 600	186 78	9, 530 37, 914	238 1,523		
Perch Rock bass	129 16	7			130	5		
Rockfishes Sablefish Salmon Sculpin	2, 769, 684 243, 116 752	96, 129 7, 754	3, 245 279, 409	114 31, 528	52, 153 24, 473	1, 990 612		
Sea bass, white or squeteague Skates Smelt. Tuna and tunalike fishes,	26 4, 517 271	91 19	16	2	18, 193	349		
albacore	7, 838	357	172, 962	12, 570	4, 893	171		
Total	4, 480, 655	154, 614	463, 146	44, 665	1, 130, 620	61, 660		
Crabs					16	2	0 700	*******
Shrimp Octopus	8, 974	904			117	11	8, 736 53, 912	\$1, 954 5, 154
Total	8, 974	904			133	13	62, 648	7, 108
Grand total	4, 489, 629	155, 518	463, 146	44, 665	1, 130, 753	61, 673	62, 648	7, 108

Species	Ra	kes	Sho	vels	Abalone outfits		
	Pounds	Value	Pounds	Value	Pounds	Value	
SHELLFISH Abalone					631, 795	\$126, 359	
Clams, Pismo	30	\$5	2, 409	\$1, 230		*********	
Total	30	5	2, 409	1, 230	631, 795	126, 359	

Fisheries of the San Pedro division of the southern district of California, 1930 OPERATING UNITS: BY GEAR

	P	urse sein	es	Lampa	ra nets			Gill nets	
Item	Barra- cuda	Sardine	Tuna	Sardine	Other	Haul	Drift, barra- cuda	Set, sea bass	Other
Fishermen: On vessels On boats and shore	Num- ber 303	Num- ber 785	Num- ber 817	Num- ber 390	Num- ber 361 50	Num- ber	Num- ber 32 74	Num- ber 14 69	Num- ber 21
Total	303	785	817	390	411	2	106	83	62
Vessels, motor Net tonnage Boats:	33 938	78 2,991	82 3,328	39 893	41 506		11 69	4 42	49
Motor					11	<u>1</u>	26 1	30 3	15 11
Apparatus: Number Length, yards Square yards	14, 228	78 31,747	82 46, 625	39 17, 106	21, 152	100	38 330, 904	37 152, 625	30, 903

Fisheries of the San Pedro division of the southern district of California, 1930—Con. OPERATING UNITS: BY GEAR—Continued

	Tram-	Liı	nes	Paran-	T	Har- poons, sword- fish		Aba-	Total,
Item	mel nets	Set and hand	Troll	zella nets	Traps, lobster		Shovels	lone outfits	sive of dupli- cation
Fishermen: On vessels	Num- ber 37	Num- ber 119	Num- ber 731	Num- ber 10	Num- ber 19	Num- ber 21	Num- ber	Num- ber	Num- ber 2,025
On boats and shore	55	403	287	14	142	33	61	2	732
Total	92	522	1,018	24	161	54	61	2	2,757
Vessels, motor Net tonnage	13 85	40 425	110 3, 914	3 42	8 61	5 69			254 7, 707
Boats: MotorOther	21 1	288 18	209	5	79 13	17		1	405 41
Apparatus: Number Square yards	35 255, 500	1,450	2, 215	4	2,805	22	61	1	
Yards at mouth				67					
Hooks		255, 987	2, 215						

CATCH OFF CALIFORNIA: BY GEAR

	Purse	seines	Lampar	a nets	Haul s	eines	Gill 1	nets
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH	138	7.15						
Anchovies Barracuda Carp	712, 739	\$76, 627	10, 311 607, 348	\$284 29,831	2, 375		637, 740	\$47, 278
Eels			10	1	2,010	φ110		
Flounders: "California halibut" "Sole"	186	22	430	60)		407 52	51
Flyingfish	170	6	315	12			47, 973	1, 787
Grayfish Halfmoon Herring	3, 862 2, 920	75 247	7, 264 13, 894	195 756			102, 013 19, 951 259	3, 067 1, 717
Horse mackerel Kingfish	38, 353	1, 434	234, 518 276, 951	8, 651 5, 293			48 741	14
"Lingcod" Mackerel Mullet	72, 776	775	10, 497, 248 1, 892	108, 489 181			20 107, 081 9, 204	2, 191 874
Perch Pilchard or sardine	121, 628, 006	229 647, 669	76, 915 61, 083, 099	1, 399 330, 096			22, 109 770	1, 73
Pompano Rock bass Rockfishes	10, 085	1, 053 6	1, 275 26, 051 613	716 1,660 18			2, 193 237	90
Sculpin Sea bass:							29	
Black White or squeteague Sheepshead	73, 512	527 9, 024	5, 453 391, 883	320 36, 480			4, 405 395, 165	233 32, 188 36
Smelt	1,879	83	268, 021	10, 757			1, 007 158, 072	8, 87
Bluefin Bonito Whitebait	2, 416, 196	859, 132 78, 599	405, 172 121, 256	22, 708 2, 799			56, 121 55	1, 089
Whitefish Yellowtail	30 81, 568	4, 706	105 120, 216	6, 567			253 11, 035	14 603
Other fish	87	4	940	61			1,006	22
Total	140, 092, 752	1, 680, 220	74, 151, 180	567, 343	2, 375	175	1, 577, 960	101, 926
SHELLFISH Squid			30, 316	1, 665			i fyrle	
Grand total	140, 092, 752	1 680 220			2, 375	175	1, 577, 960	101, 926

Fisheries of the San Pedro division of the southern district of California, 1930—Con.

CATCH OFF CALIFORNIA: BY GEAR—Continued

	70					Li	nes		Description	No make
Species	Tramn	nei net		Set and	ha	and	Tro	oll	Paranze	ella nets
	Pounds	Valu	e 1	Pounds	v	alue	Pounds	Value	Pounds	Value
FISH			1	7						THE STATE OF THE S
Barracuda					01.		597, 025	\$32, 418	23	\$3
Flounders:					-		,	104,440		
"California halibut"		\$45, 47	6	28, 577	\$3	3, 692			379, 728	43, 831
"Sole"	4, 214	26	1	6, 401		456		*******	368, 699	15, 603
Other	3, 413	25	9	13, 168		416		*******	760	50
Grayfish	60, 884	-2, 20	3		2	2, 664		62	12, 535	437
Horse mackerel				638		25 241				
Kingfish "Lingcod"				2, 688		142			700	3
"Lingcod". Mackerel			3.	543, 550	69	, 847	252, 697	3, 544		
Perch			0,	415		21	202,001	0,011		
Pompano				47		25	15	8		
Rock bass	578	3	9	148, 146	11	, 791	4,810	302	1,049	82
Rockfishes	130		7 2,	040, 496	89	9, 031	28	2	1,727	80
Sablefish				5, 506	1	405				
Salmon						0.00	6	1		
Sculpin	20		1	64, 186	1	1,848			443	51
Sea bass: Black	3 400	4.0	9	60, 400	1	. 011	529	32	973	66
White or squeteague	1, 483 2, 251	10 32		80, 488		1,011	364	33	1, 627	270
Sheepshead	818	3		21, 883 53, 573		1, 884	304	99	86	3
Skates	6,841	16		8, 868	1	184			15, 701	- 315
Smelt	.,			3, 303	1	152			134	7
Swordfish					l		28, 091	1,687		
Tuna and tunalike fishes:				pa-						
Albacore							107, 987	10, 857		
Albacore Bluefin Bonito			2	764		74	793	62		
Bonito			2	1,605		42	29, 311	612		
Skipjack or striped tuna Yellowfin			4.0				1, 109, 680	44, 387 795	*******	******
Whitefish	197		4	112, 052		8, 449	12, 564	130		
Yellowtail.	243		3	310	1 '	20	28, 466	1, 589		******
Other fish	376		5	31, 403	1 3	2, 228	178	8		
				54, 100	μ.	,	210			
Total	403, 339	48, 91	1 6,	278, 513	204	1, 737	2, 175, 758	96, 399	784, 185	60, 838
SHELLFISH										
Con consultable on online 1-1-1-1									240	74
Sea crawfish or spiny lobster Squid	7, 045 60	1, 39	les:						340	19
Mana	- 00		1							*****
Total	7, 105	1, 40	6						340	74
					-					_
Grand total	410, 444	50, 31	7 6,	278, 513	204	4, 737	2, 175, 758	96, 399	784, 525	60, 912
	T	Traps		Do	****	ons	Cho	vels	Abalon	e outfits
Species		rraps		.110	a be	юця	SIII	veis	AUMON	Couring
	Poun	ds V	alue	Pound	ls	Value	Pounds	Value	Pounds	Value
	-	-	-	-	-			-		-
FISH				1			1		The last	
Perch	1, 2	31	860							
Rock bass	152, 7		, 441						******	
Rockfishes	9	90	.59	******	200					*****
Sculpin Sheepshead	148, 1	89	106							******
Swordfish	140,1	09 0	, 514	169 99	a i	124, 92	9			****
Whitefish	2.6	62	142	100,00		124, 02				******
	dispersion of the last	-			man la	_				-
Total	306, 6	000 10	, 322	168, 33	14	24, 92	4		*******	*******
SHELLFISH				1000			P. PETER			
Crabs	1	12	3							
Sea crawfish or spiny lobster	260, 2	85 51	, 687							
Abalone									15, 521	83, 972
Clams:	1									
Cockle					44		8, 510	\$2,063	******	
Pismo		58			-		19, 363	8, 380		
Octopus	-	marie Santon	46		4.7					
Total	260, 5	55 51	, 736				27, 873	10, 443	15, 521	3, 972
Grand total	567	60 44	OFF	169 99		94 000	07 079	10 442	15 591	3 070
Grand total	567, 1	00 67	, 058	168, 33	9	24, 92	27,873	10, 443	15, 521	3, 972

Fisheries of the San Pedro division of the southern district of California, 1930—Con.

CATCH OFF LATIN AMERICA: BY GEAR

Charles	Purse s	eines	Lampa	ra nets	Gill nets	
Species	Pounds	Value	Pounds	Value	Pounds	Value
Barracuda	860, 009	\$91, 182			187	\$28
Cabrilla	315	16				
Flounders, "California halibut"	218	21				303330003.
Mullet	80	6	474	\$31		
Perch	660	30				
Rock bass	3, 262	240				
Sea bass:	Ellin .				- 14	
Black	44, 593	2, 398			2, 953	173
White or squeteague	60, 241	8, 146			26,606	2, 540
Spanish mackerel	545	38				
Tuna and tunalike fishes:						
Bluefin	6, 150, 000	338, 341				
Bonito	1, 208, 576	41, 935				
Skipjack or striped tuna	38, 051	1, 599				
Yellowfin	1, 184, 340	79, 496				JULILIAN
Whitefish	200	13			160	11
Yellowtail	2, 049, 967	85, 565			384	20
Other fish	354	21				
Total	11, 601, 411	649, 047	474	31	30, 290	2, 772

even Jacobset L. Lean BD	naireal.	71.566	Lines						
Species	Tramn	iel nets	Set and	hand	Troll				
	Pounds	Value	Pounds	Value	Pounds	Value			
Cabrilla			387, 079	\$22, 529	77, 519	\$5, 164			
Flounders: "California halibut" Other	11, 990 100	\$1, 160 7	354	53					
Grayfish Rock bass	1989		1, 555 10, 710	62 582					
Sea bass: Black White or squeteague			23, 516 41, 346	1, 242 3, 740	90	5			
Sheepshead			377 19, 075	15 1, 246					
BonitoSkipjack or striped tuna					5, 991 5, 699, 289	188 202, 279			
YellowfinYellowtail					11, 353, 431 364, 323	675, 038 26, 244			
Other fish	12, 090	1, 167	488, 532	215	17, 500, 643	908, 918			

Fisheries of the San Diego division of the southern district of California, 1930 OPERATING UNITS: BY GEAR

2012/14/12	Lampara		Gill nets	11.8	m	
Item	nets, sardine	Drift, bar- racuda	Set, sea bass	Other	Trammel nets	
Fishermen: On vessels_ On boats and shore	Number 80 17	Number 10 39	Number 14 46	Number 15	Number 15 37	
Total	97	49	60	15	52	
Vessels, motor	14 138 3	3 21 16	4 34		4 36	
Other	3	16	18	8	14	
Apparatus: Number Length, yards	17 4, 790	19	22	11	18	
Square yards		94, 804	120, 450	6, 826	247, 572	

Fisheries of the San Diego division of the southern district of California, 1930—Con.

OPERATING UNITS: BY GEAR—Continued

	Li	nes		Harpoons,	Total, exclu-	
Item	Set and hand	Troll	Traps, lobster	sword- fish and turtle	sive of dupli- cation	
Fishermen: On vessels. On boats and shore.	Number 214 125	Number 770 114	Number 43 52	Number 75 19	Number 841 210	
Total	339	884	95	94	1, 051	
Vessels, motor	47 643	102 5, 129	10 108	16 196	5, 246	
Motor Other	79	72	37 2	8	119	
Apparatus: Number Hooks	735 115, 690	1, 545 1, 545	1, 572	24		

CATCH OFF CALIFORNIA: BY GEAR

Consider	Purse	seines	Lampar	a nets	Gin	nets	Tramm	el nets
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH						100		
Anchovies Barracuda Flounders, "California halibut".			3, 900	\$39	81, 492	\$6, 799	100 000	
Grayfish Herring Kingfish					63, 175 43, 579	308 565	106, 983 33, 711	151
Mackerel Mullet Perch Pilchard or sardine			490 239, 355 94 2, 934 4, 171, 982	2, 887 9 82 26, 219	19, 220 9, 563 443	392 849 16	271	8
Pompano Rock bass Rockfishes Sea bass:			327	131	334	11	348 536	9
Black. White or squeteague. Skates			28	5	2, 250 105, 538	108 7, 973	1, 557 116 1, 670	88 21 33
Smelt Tuna and tunalike fishes:			6, 127	271	7,800	468	1,070	
Bluefin Bonito Yellowtail	130, 448		25, 067 688	1, 379 20	10, 944	270	8, 954	420
Total	130, 448	7, 175	4, 450, 992	31,060	344, 338	17, 759	154, 146	12, 390
SHELLFISH				777				
Sea crawfish or spiny lobster Squid			679	34		*******	2, 194 433	295 52
Total			679	34			2, 627	347
Grand total	130, 448	7, 175	4, 451, 671	31, 094	344, 338	17, 759	156, 773	12, 737

NOTE. -The catch by purse seines was made entirely by fishermen from the San Pedro section.

Fisheries of the San Diego division of the southern district of California, 1930—Con.

CATCH OFF CALIFORNIA: By GEAR—Continued

Species				Traps		Harpoons		
Species	Set and	hand	Tro	ll	11.	aps	Harp	oons
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
FISH	- GT.74	17/101	ste otto		The state of		Z ghu	187,10
Barracuda		The state of the s	877, 211	\$56, 308	1	200200	0.71	The same of
Cabrilla	471	\$17	877, 211	фоб, обо				
Flounders:	4/1	\$17						
"California halibut"	2, 482	201	165	F 140				1 1-67
"Sole"	6, 498	583						
Other	43	3						
Gravfish	27, 747	123			-1007			
Kingfish	1, 981	61			-18			-2
Mackerel	404, 154	10, 322	18, 280	231				
Pompano	29	10, 522	10, 200	201				
Rock bass	117, 321	5, 016	126	6	11, 891	\$602		
Rockfishes	1, 052, 930	50, 407	120	0	138	6		
Sculpin	23, 043	1, 982			155	0		
Sea bass:	25, 045	1, 902	777777777					
Black	80, 345	3, 490	75	4	called arms	or beauty f	40 9/16 11	100
White or squeteague	152, 464	10, 795	227	24				
Sheepshead	15, 962	572	221	24	21, 499	882		
Skates	85	1			21, 499	002		
Swordfish	00	1	175	9			364, 895	\$48, 723
Tuna and tunalike fishes:			170	9			304, 893	P40, 120
			2, 168	224				
Bluefin			2, 108	224				
Bonito	40	1	1, 229, 016	38, 072				
Skipjack or striped tuna		1	1, 905, 595	76, 224				
Yellowfin			22, 989	1, 379				
Whitefish	99, 267	3, 836	22, 303	1, 575				
Yellowtail	59, 207	3	964, 108	38, 646				
2 0110 11 0411	00		304, 108	30, 040				
Total	1, 984, 921	87, 424	5, 020, 001	211, 129	33, 528	1, 490	364, 895	48, 723
	1, 301, 321	01, 121	0, 020, 001	211, 123	35, 323	1, 100	304, 833	40, 120
SHELLFISH	andana a	0. 20,000	HALL AND A	15410	4 9 5 7 7 5			
	Ball-Land May							
Sea crawfish or spiny lobster					104, 586	20,779		
2 07.100.001.22					202,000	, 110		
Grand total	1, 984, 921	87, 424	5, 020, 001	211, 129	138, 114	22, 269	364, 895	48, 723

CATCH OFF LATIN AMERICA: BY GEAR

Species	Purse	seines	Gill	nets	Tramm	el nets
pecies	Pounds	Value	Pounds	Value	Pounds	Value
FISH	Vo Z.TV		describer.			
Barracuda Flounders, "California halibut"	44, 761	\$6,732	18, 539	\$1,531	189, 094	\$19, 930
Sea bass: Black White or squeteague Smelt	1, 109 2, 935	59 229	23, 887 235, 115 1, 082	1, 214 21, 332 79	23, 433 287	1, 218 38
Tuna and tunalike fishes: Bluefin Bonito	172, 296 28, 511	9, 139 1, 049				
YellowfinYellowtail	361, 494 53, 560	22, 369 2, 054	15, 083	730		
Total	664, 666	41, 631	293, 706	24, 886	212, 814	21, 186
SHELLFISH, ETC.	1.5	724			- 177	
Sea crawfish or spiny lobster					132	24
Grand total	664, 666	41,631	293, 706	24, 886	212, 946	21, 210

Note.—The catch by purse seines was made entirely by fishermen from the San Pedro section.

Fisheries of the San Diego division of the southern district of California, 1930—Con.

CATCH OFF LATIN AMERICA: BY GEAR—Continued

			Lines		The		Harps	
Species	Set and	d hand	Tro	oll	Traps		Harpoons	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Barracuda Cabrilla Flounders, "California bal-	121, 674	\$4, 528	249, 143	\$25, 224				
ibut" Mackerel Rock bass Rockfishes	719 17, 804 8, 405	13 1,474 429	545 715	10 17		*******		
lea bass: Black White or squeteague Cheepshead panish mackerel	86, 448 20, 461 2, 258 23, 345	4, 562 2, 625 96 757	507 146	25 19	*********			
wordfish 'una and tunalike fishes: Bluefin Bonito Skipjack or striped tuna	94	5	54, 686 11, 732, 972	1, 830 465, 347			1, 234	\$10
Yellowfin Vhitefish Cellowtail	10, 176 678	470 61	43, 719, 363 1, 071, 474	2, 617, 140 42, 535				
Total	292, 104	15, 026	56, 829, 551	3, 152, 147		*****	1, 234	13
SHELLFISH, ETC. Sea crawfish or spiny lobster. Furtles					1, 019, 557	\$188, 887	580	
Grand total	292, 104	15, 026	56, 829, 551	3, 152, 147	1, 019, 557	188, 887	1,814	2

Industries related to the fisheries of California, 1930

TRANSPORTING

Persons engaged on vessels	
Vessels:	
Steam Net tonnage Motor	1
Net tonnage	33
	539
Net tonnage	539
Total vessels	8
Total net tonnage	572

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

		San Fran-		Southern			
Item	Northern district	cisco district	Monterey district	San Pedro division	San Diego division	Total	
Establishments Persons engaged:	8	35	32	.55	21	151	
Proprietors Salaried employees Wage earners—	5 10	47 154	41 155	93 252	27 59	213 630	
Average for season	119 38	685 564	2, 201 865	3, 163 1, 561	1, 518 629	7, 686 3, 630	
Paid to salaried employees Paid to wage earners	\$21, 173 40, 199	\$412, 130 859, 041	\$398, 786 880, 068	\$692, 955 1, 789, 121	\$172, 846 779, 796	\$1, 697, 890 4, 348, 225	
Total, salaries and wages	61, 372	1, 271, 171	1, 278, 854	2, 482, 076	952, 642	6, 046, 115	

Industries related to the fisheries of California—Continued WHOLESALE AND MANUFACTURING-Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Barracuda, fresh filletspounds_	225, 000	\$43, 500
Cabrilla, fresh filletsdo	115,000	20, 250
Cod: Salted 1do	manual (Transfer Land
Salted 1 do	2, 870, 327	150, 928
Salted, packageddodo	2, 149, 827	2 323, 836
Flounders, fresh filletsdo	4, 735, 000	947, 000
Halibut, fresh filletsdo	45, 000	15, 750
Mackerel, cannedstandard cases	127, 479	430, 962
Pilehard or sardine:	121, 110	100,002
Saltedpounds_	65, 490	3, 472
Cannedstandard cases_	2, 979, 333	8, 741, 928
Mealtons_	25, 938	1, 414, 858
Oil gallons	5, 803, 166	1, 826, 319
Rockfishes, fresh fillets pounds	761, 500	120, 400
Salmon, mild-cureddo	1, 039, 500	189, 000
Sea bass, black, fresh filletsdo	55, 500	7, 825
Sea bass, white, fresh filletsdo	326, 250	79, 375
Totuava, fresh filletsdo	260, 000	52, 000
Tuna and tunalike fishes:	200,000	52, 000
Salted (bonito)do	18, 124	1,567
Canned 3 standard cases	2, 010, 640	13, 055, 876
Mealtons_	8, 554	428, 556
	56, 748	14, 153
Spiny lobsters (fresh-cooked, whole)pounds	1, 064, 250	287, 693
Shrimp: Sun-drieddo	**** ***	00 505
	146, 842	28, 507
Mealtons_	136	6, 800
Squid, driedpounds	1, 383, 660	55, 346
Abalone, fresh steaksdo	583, 589	248, 025
Marine-shell novelties	(4)	95, 000
Unclassified products:	policies and	
Packaged 5	(4)	72, 500
Salted 6pounds	526, 029	41, 142
Smoked 7do	450, 098	124, 131
Canned 8standard cases	24, 484	198, 783
Meal 9tons_	3, 712	237, 672
Oil 10 gallons	579, 083	187, 720
By-products 11	(4)	269, 202
Total		29, 720, 076

1 The cod were salted in Alaskan waters.

² This figure is included in the total, however, it should be explained that it represents a further manufacture of salted cod already included in this table.

Includes canned albacore; bluefin, striped, and yellowfin tuna; bonito; and yellowtail.

· Data not available

Data not available.
 Includes packaged fried fish cakes; and fresh-shucked western and eastern oysters.
 Includes salted anchovies, barracuda, cabrilla, herring, mackerel, mullet, salmon, black and white sea bass, Spanish mackerel, whitefish, and yellowtail; and mild-cured shad.
 Includes smoked mackerel, sablefish, salmon, and sardines.
 Includes canned salmon, shad, shad roe, abalone, squid, and fish cakes.
 Includes kelp, mackerel, and miscellaneous fish meal and fish flour.
 Includes sperm, whale, shark, shark-liver, mackerel, and miscellaneous fish oils.
 Includes agar agar: glue: miscellaneous dry scrap; alginates; and oyster-shell products.

11 Includes agar agar; glue; miscellaneous dry scrap; alginates; and oyster-shell products.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

HALIBUT FISHERY OF THE PACIFIC COAST 11

The halibut fishery of the Pacific coast, which is prosecuted both by United States (including Alaska) and Canadian vessels, ranks as one of the foremost fisheries of that section. During 1931 the total catch by

11 To preclude the possibility of unwarranted comparison of figures given in this section with others for "To preclude the possibility of unwarranted comparison of figures given in this section with others for years previous to 1927, it should be explained that the figures as herein compiled differ from those published in separate reports for the Alaska fisheries and the Pacific Coast States. The difference lies principally in the fleet classifications as between Washington and Alaska, though there is reason to believe that the figures on landings also are not comparable with those previously published, due to variable practice in the inclusion of United States caught halibut landed at foreign ports as well as the possible duplication of igures. The present compilation is a complete résumé of the landings of the United States fleet for the rear 1931 at all Pacific ports, except those in Oregon and California, without omission or duplication. The leet classification has been applied arbitrarily by including in the "Washington fleet" all vessels that land more than half of their catch in that State. All others were included in the "Alaska fleet." It has been necessary to use "hailing fares" for the weight of the landings at Prince Rupert, British Columbia. The lata for Seattle and Alaska are based on the actual weight of the fares. Halibut are landed with the heads lata for Seattle and Alaska are based on the actual weight of the fares. Halibut are landed with the heads on, but eviscerated.

vessels of both nationalities amounted to 42,845,000 pounds, valued at \$2,842,000. This is a decrease of 13 per cent in quantity and 43 per cent in value as compared with the catch in 1930. Of the total catch in 1930, 83 per cent was taken by United States craft and 17 per cent by Canadian craft. Considered according to the ports of landing, 42 per cent was landed at Canadian ports, 36 per cent at ports in the State of Washington, and 22 per cent at ports in Alaska.

Halibut fishery of the Pacific coast, 1931
UNITED STATES OPERATING UNITS: BY FLEET CLASSIFICATION

Item	Washing- ton fleet	Alaska fleet	Total
December helikust messeler			
Regular halibut vessels: Number	94	123	217
	~ ~	2, 663	5, 111
Net tonnage	2, 448		
Danie	651	768	1, 419
Skates of lines		123	217
	2, 812	3, 532	6, 344
Vessels in other fisheries but landing one or more fares of halibut:	28	40	7.
Number		46	74
Net tonnage	593	508	1, 101
Crew	150	167	317
Dories	18	33	51
Skates of lines	769	995	1,764
Regular halibut boats:			
Number		17	17
Crew		47	47
Skates of lines		306	306
Boats in other fisheries but landing one or more fares of halibut:			
Number		95	95
Crew		150	150
Skates of lines		636	636

CATCH OF ALL SPECIES: BY UNITED STATES VESSELS AND BOATS

			Landed	in—			Total		
Fleet classification	Washi	ngton	British C	olumbia	Alas	ka			
/	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
WASHINGTON FLEET		- 1171	STATES		为建盟				
Regular vessels: Halibut Sablefish "Lingcod" Rockfishes	11, 402, 473 1, 255, 446 301, 399 254, 823	\$827, 509 43, 245 8, 452 6, 367			884, 414 1, 145	35	14, 110, 304 1, 256, 591 301, 399 254, 823	43, 280 8, 452	
Total	13, 214, 141	885, 573	1, 823, 417	116, 981	885, 559	51, 759	15, 923, 117	1, 054, 313	
Other vessels: Halibut Sablefish "Lingcod" Rockfishes	823, 482 17, 269 89, 007 23, 869	70, 903 725 2, 475 763			12, 657		867, 580 17, 269 89, 007 23, 869	74, 639 725 2, 475 763	
Total	953, 627	74, 866	31, 441	2, 605	12, 657	1, 131	997, 725	78, 602	
ALASKA FLEET									
Regular vessels: Halibut	2, 962, 330 22, 318 15, 285 9, 106	206, 007, 980 1, 111 639			6, 773, 367 257, 416 1, 522	7. 455	15, 285	1, 184, 160 8, 435 1, 111 696	
Total	3, 009, 039	208, 737					18, 454, 820	1, 194, 402	
Other vessels and boats: Halibut	25, 606 3, 680 838 1, 293	2, 847 184 42 65	295, 174		1, 955, 680 7, 915 1, 249 8, 412	234 33	2, 087	168, 527 418 75 263	
Total	31, 417	3, 138	295, 174	20, 675	1, 973, 256	145, 470	2, 299, 847	169, 283	

Halibut fishery of the Pacific coast, 1931—Continued CATCH OF ALL SPECIES: By United States vessels and boats—Continued

	neting		Landed	in—			Total		
Fleet classification	Washin	ngton	British C	olumbia	Alas	ska			
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
COMBINED FLEETS	risoni m	t aloss	or uni	ait yo	Bobin	al our	v AIE	12 12	
Regular vessels: Halibut. Sablefish "Lingcod" Rockfishes	14, 364, 803 1, 277, 764 316, 684 263, 929	44, 225 9, 563		\$684, 514	7, 657, 781 258, 561 1, 522	7, 490	1, 536, 325 316, 684	51, 715 9, 563	
Total	16, 223, 180	1, 094, 310	10, 236, 893	684, 514	7, 917, 864	469, 891	34, 377, 937	2, 248, 715	
Other vessels and boats: Halibut Sablefish "Lingcod" Rockfishes	849, 088 20, 949 89, 845 25, 162	2, 517		23, 280	1, 968, 337 7, 915 1, 249 8, 412	234 33	91, 094	1, 143 2, 550	
Total	985, 044	78, 004	326, 615	23, 280	1, 985, 913	146, 601	3, 297, 572	247, 885	
All vessels and boats: Halibut Sablefish ''Lingcod'' Rockfishes	15, 213, 891 -1, 298, 713 -406, 529 -289, 091	45, 134 12, 080		707, 794	9, 626, 118 266, 476 1, 249 9, 934	7, 724		52, 858 12, 113	
Grand total	17, 208, 224	1, 172, 314	10, 563, 508	707, 794	9, 903, 777	616, 492	37, 675, 509	2, 496, 600	

NOTE.—These statistics are compiled from data collected by the International Fisheries Commission for Washington, by the U. S. Consular Service and the Prince Rupert Halibut Exchange for British Columbia, and by bureau agents for Alaska.

CATCH OF HALIBUT: By United States and Canadian vessels and Boats [Expressed in thousands of pounds and thousands of dollars; that is, 000 omitted]

St. Featle, West, 10-17								
Fleet classification	Washington		British Columbia		Alaska		Total	
detectable	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value	Quan- tity	Value
WASHINGTON FLEET								
Regular halibut vesselsOther vessels	11, 403 823	\$827 71	1, 823 32	\$117 3	884 13	\$52 1	14, 110 868	\$996 75
Total	12, 226	898	1, 855	120	897	53	14, 978	1, 071
ALASKA FLEET								
Regular halibut vesselsOther vessels and boats	2, 962 26	206	8, 413 295	568 20	6, 774 1, 955	410 145	18, 149 2, 276	1, 184 168
Total	2, 988	209	8, 708	588	8, 729	555	20, 425	1, 352
COMBINED FLEETS		-						
Regular halibut vesselsOther vessels and boats	14, 365 849	1, 033 74	10, 236 327	685 23	7, 658 1, 968	462 146	32, 259 3, 144	2, 180 243
TotalBritish Columbia fleet	15, 214 13	1, 107 1	10, 563 7, 429	708 1 418	9, 626	608	35, 403 7, 442	2, 423 419
Grand total	15, 227	1, 108	17, 992	1, 126	9, 626	608	42, 845	2, 842

¹ Estimated.

Note.—These statistics are compiled from data collected by the International Fisheries Commission for Washington, by the U.S. Consular Service and the Prince Rupert Halibut Exchange for British Columbia, and by bureau agents for Alaska.

VESSEL FISHERIES AT SEATTLE, WASH.

During 1931, a total of 40,746,241 pounds of fishery products, valued at \$2,308,024, were handled by Seattle wholesale dealers, exclusive of quantities received by transporting vessels or rail from Alaska or Canada. This represents an increase of 5 per cent in quantity and a decrease of 33 per cent in value as compared with the previous year.

Of the total quantity handled, 17,208,224 pounds, valued at \$1,172,314, were landed by fishing vessels, an increase of 4 per cent in quantity and a decrease of 31 per cent in value as compared with the previous year. The vessels made 1,064 trips to the fishing grounds during the year, which is 170 trips less than during 1930. Halibut was the most important species taken by the fishing vessels, accounting for 88 per cent of the catch. Sablefish accounted for 8 per cent; and "lingcod" and rockfishes, each 2 per cent.

The catch by fishing vessels was taken off the Pacific coast from Oregon to Unalaska Island. South of Cape Spencer ranked as the most productive area, furnishing 56 per cent of the catch. Grounds

west of Cape Spencer provided the balance.

During 1931, 23,538,017 pounds, valued at \$1,135,710, were received by wholesale dealers from sources other than Alaska or Canada, or from vessels in the halibut fishery. Most of these products were taken in Puget Sound. This is an increase of 6 per cent in the quantity received from similar sources in 1930 and a decrease of 35 per cent in value. The increase in quantity was due to the large catch of humpback or pink salmon as compared with the "off year" for this species in 1930. All varieties of salmon accounted for 91 per cent of the fishery products handled by the wholesale dealers from sources other than the halibut fleet or from Alaska or Canada.

Fishery products landed by United States vessels at Seattle, Wash., 1931 1

BY BANKS

	Trips			Halif					
Fishing ground		N	No. 1			. 2	Sablefish		
		Pounds	1	Value	Pounds	Value	Pounds	Value	
West of Cape SpencerSouth of Cape Spencer	Number 268 796	4, 037, 226 3, 239, 218		351, 278 327, 953	3, 403, 699 4, 533, 748	\$171, 878 256, 157			
Total	1, 064	7, 276, 444		579, 231	7, 937, 447	428, 035	1, 298, 71	45, 134	
77.11			Ling	reod"	Rockf	ishes	Tot	al	
Fishing ground		Poun	ds	Value	Pounds	Value	Pounds	Value	
West of Cape SpencerSouth of Cape Spencer				\$1, 515 10, 565	5, 153 283, 938	\$213 7, 621	7, 494, 819 9, 713, 405	\$525, 645 646, 669	
Total		406, 5	29	12,080	289, 091	7, 834	17, 208, 224	1, 172, 314	

¹ Halibut fleet.

Fishery products landed by United States vessels at Seattle, Wash., 1931 —Cont'd BY MONTHS

			Hali	but				
Month	Trips	No.	1	No.	2	Sablefish		
		Pounds	Value	Pounds	Value	Pounds	Value	
	Number	Det I			being pre-			
January	7 .							
February	7	16, 367	\$2,067	3, 203	\$249	2,000	\$180	
March	67	496, 298	61, 549	230, 526	21, 481	15, 403	770	
April	113	750, 892	81, 339	547, 779	42, 433	12, 886	543	
May	135	671, 357	64, 207	919, 432	55, 997	8,779	370	
June	155	908, 779	88, 249	1, 227, 896	59, 762	65, 500	2, 796	
July	123	1, 070, 574	89, 631	1, 128, 656	49, 304	143, 477	4, 123	
August	144	1, 337, 109	96, 822	1, 340, 616	52, 139	207, 156	5, 705	
September	138	1, 024, 353	81, 311	1, 260, 298	56, 470	310, 558	10, 127	
October	106	653, 760	67, 842	912, 450	59, 927	316, 736	11, 119	
November	57	346, 955	46, 214	366, 591	30, 273	180, 718	7, 685	
December	12					35, 500	1,716	
Total	1,064	7, 276, 444	679, 231	7, 937, 447	428, 035	1, 298, 713	45, 134	

The last committee of the last committee of	"Ling	cod"	Rockfi	shes	Tot	al
Month			-			
	Pounds	Value	Pounds	Value	Pounds	Value
January	26,600	\$1,603	10, 500	\$779	37, 100	\$2,382
February	17, 150	1, 355	8, 950	726	47, 670	4, 577
March	31, 255	1,556	4, 347	230	777, 829	85, 586
April	104, 250	2, 425	33, 186	804	1, 448, 993	127, 544
May	58, 527	1, 137	28,672	642	1, 686, 767	122, 353
May June	35, 691	718	43, 264	943	2, 281, 130	152, 468
July	10, 499	209	17, 819	365	2, 371, 025	143, 632
August	15, 251	302	53, 642	1,071	2, 953, 774	156, 039
September	15, 446	343	39, 555	928	2, 650, 210	149, 179
October	28, 479	685	29, 300	733	1, 940, 725	140, 306
November	19, 681	742	356	13	914, 301	84, 927
December	43, 700	1,005	19, 500	600	98, 700	3, 321
Total	406, 529	12, 080	289, 091	7, 834	17, 208, 224	1, 172, 314

¹ Halibut fleet.

Fishery products received by Seattle wholesale dealers, 1931 ¹
BY MONTHS

	Janu	ary	Febru	lary	Mar	ch	Apı	ril	Ma	y
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders: "Sole" Other Halibut Herring "Lingcod" Perch	875 8, 847 3, 040	398 137	2, 217 12, 219 3, 180	34 623 160	2, 988 3, 020 1, 050 9, 466 7, 034	453 10 259 274	3, 125 3, 060 750 22, 241 5, 541	248 4 636 166	1, 073 7, 547 6, 666 5, 352	\$805 11 609 134 160
Rockfishes Salmon: Blueback, red or sock-	5, 625	208	7, 561	350	5, 183	244	5, 832	169	7, 639	198
Chinook or king Chum or keta Silver or coho	96 3, 584 68			57	23, 892	3, 931	281, 610	37, 477	1, 452, 151 442 21, 661	122, 379 12 1, 102
Smelt Steelhead trout Sturgeon	15, 159	858	23, 457				654	54		996 1, 414 35
CrabsOctopus	62, 706 535		69, 573 2, 863							6, 185 219
Total	164, 952	10, 269	185, 697	11, 254	208, 155	12, 436	454, 266	45, 869	1, 617, 812	134, 282

¹ This tabulation does not include fish received from Alaska or Canada, or vessels in the halibut fleet.

Fishery products received by Seattle wholesale dealers, 1931—Continued BY MONTHS-Continued

	Jun	ie	Jul	у	Augu	ıst	Septen	nber
Species.	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders: "Sole" Other Halibut	25, 439 4, 752 6, 274	68	31, 932 754 6, 510	8	15, 278 2, 497 14, 719	35	26, 580 526 1, 393	\$742 8 119
Herring. "Lingcod" Perch Rockfishes Sablefish	6, 447 2, 190 15, 519 34	109	9, 257	180 81 230	2,067		3, 088 2, 882 3, 100	215 86 77
Salmon: Blueback, red or sockeye. Chinook or king Cham or keta Humpback or pink Silver or coho	4, 127 2, 233, 946 2, 460 4, 790 532, 070 13, 117	210, 262 62 107 29, 275	11, 945 521, 095 578, 830	1, 114	1, 693, 110 80, 630 3, 388, 001 467, 407 12, 862	142, 251	400, 087 167, 948 768, 422	105 28, 818 2, 516 8, 504 78, 359 1, 802
Steelhead trout Sturgeon Crabs. Octopus	16, 114 459 66, 616 4, 181	804 22 4, 509	14, 947 305		1, 626 1, 842 48, 818	130	20, 496 327 28, 842 4, 961	888 16 1, 967 242
Total	2, 938, 535	248, 011	3, 950, 834	174, 514	5, 772, 160	220, 422	3, 219, 016	124, 46

	Octob	ber	Nove	mber	Decer	mber	To	tal
Species	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Flounders:	22, 000 7, 810 1, 414 4, 715 3, 204 6, 134 4, 499 36, 186	\$588 78 170 94 78 202 73 1, 186	2, 212 16, 469 7, 699 4, 445	492 323	3, 080 42, 224 6, 953	\$940 31 1,611 235 496 11	26, 904 43, 937 11, 899 151, 155 54, 107 85, 325	\$11, 681 422 2, 771 203 4, 952 2, 013 2, 856 1, 198
Salmon: Blueback, red or sockeye Chinook or king Chum or kets Humpback or pink Silver or coho Steelhead trout. Steelhead trout. Sturgeon Crabs Octopus	2, 335, 295 1, 145 937, 544 45, 710 2, 482 235 174, 310	35, 029	617, 555 129, 467 22, 559 8, 087	9, 017 1, 241 647	14, 160 44, 751 16, 731 11, 838 180 96, 142	29 212 5, 350 1, 198 1, 411 18 5, 101 413	3, 234, 019 4, 683, 453 4, 451, 649 268, 995 136, 444 4, 047 2 947, 944	4, 064 683, 140 53, 021 61, 624 220, 606 11, 741 12, 751 60, 153 2, 293
Total	3, 733, 398	102, 412	997, 297	34, 724	295, 895	17, 056	23, 538, 017	1, 135, 71

^{2 43,769} dozen.

LAKE FISHERIES 12

The yield of the fisheries of the Great Lakes including the international lakes of northern Minnesota during 1930 amounted to 94,947,642 pounds, valued at \$6,050,267. This is an increase of 11 per cent in quantity, but a decrease of 11 per cent in value as compared with the catch and its value for 1929. These fisheries gave

¹¹ With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure" which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

The statistics of the catch presented herewith were obtained largely from the records of the various State fishery agencies and from the Dominion Bureau of Statistics, Ottawa, Canada. The data for the operating units (fishermen, vessels, boats, and gear) of the United States were obtained largely by bureau agents in a special canvass; although State records in several instances were very helpful in this work.

In all cases the statistics collected are for the calendar year, except for Lake of the Woods, Rainy Lake, and Lake Namakan in Minnesota, which are for two seasons. For Lake of the Woods the seasons are from June 1 to Nov. 1 and Dec. 1 to Apr. 1, and for Rainy and Namakan Lakes from May 15 to Nov. 1 and Dec. 1 to Apr. 1, the catch for these two seasons, in the order named, have been combined to constitute a year. The quantity of fish taken in these lakes between Jan. 1 and Apr. 1 amounted to less than 3 per cent of the total catch of these lakes in 1927.

employment to 6,980 fishermen or 3 per cent less than in 1929. Of the total number of fishermen employed, 1,666 regular fishermen were engaged on vessels, and 3,703 regular and 1,617 casual fishermen were employed in the shore and boat fisheries.

Lake fisheries of the United States and Canada, 1930
CATCH: BY LAKES

then of the part to have the		Lake Ontari	0	Trace of the second	Lake Erie	
Species	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike BowfinBurbot	30, 753 817 95, 612	25, 000 (1) (1)	55, 753 817 95, 612	11, 792, 338 2, 576 405, 442	5, 899, 100 (1)	17, 691, 438 2, 576 405, 442
Carp. Catfish and bullheads Chubs. Cisco	26, 204 80, 246	57, 600 145, 000	83, 804 225, 246	1, 861, 184 322, 631 12, 800 347, 356	277, 800 102, 700 (1) 506, 600	2, 138, 984 425, 331 12, 800 853, 956
EelsGoldfish	5, 100	99, 100 2, 319, 900	104, 200 2, 509, 000	63, 929	100	100 63, 929
Lake herring Lake trout Minnows	24, 082 109	363, 700 (1)	387, 782 109	5, 083 36, 488	11, 100	16, 183 36, 488
Mooneye Pike (jacks) Rock bass Sauger pike	705	133, 100 (¹)	141, 725 705	8, 183 2, 208 1, 530, 770	41, 600 (1) (1)	49, 783 2, 208 1, 530, 770
Sheepshead Sturgeon Sucker "mullet" Sunfish	24, 483 50, 617 12, 440	3, 400 (1) (1)	27, 883 50, 617 12, 440	2, 883, 581 16, 162 2, 015, 786	27, 000 (1)	2, 883, 581 43, 162 2, 015, 786
White bass Whitefish; Common	78 87, 400	(1) 551, 900	78 639, 300	483, 696 1, 522, 012	(1) 1, 087, 700	483, 696 2, 609, 712
Menominee Yellow perchYellow pike	29, 943 15, 583	135, 100 23, 700	165, 043 39, 283	91 4, 340, 117 1, 887, 708	3, 419, 700 274, 600	7, 759, 817 2, 162, 308
Miscellaneous	681, 897	243, 400	243, 400 4, 782, 797	29, 540, 141	1, 032, 100	1, 032, 100

	I	ake Huro	n	Lake Michigan	La	ke Superi	or
Species	United States	Canada	Total	United States	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike Bowfin Buffalofish	16, 007	(1)	16, 007	400		700	700
Burbot. Carp. Catfish and bullheads. Chubs. Lake herring. Lake trout. Pike (jacks). Rock bass. Sauger pike. Sheepshead.	897, 014 134, 978 506, 420 4, 748, 345 1, 786, 529 67, 250 13, 200 198, 254	(1) 4, 900 300 573, 300 328, 400 1, 266, 300 2, 100 (1) (1)	6, 879 901, 914 135, 278 1, 079, 720 5, 076, 745 3, 052, 829 69, 350 13, 200 198, 254 5, 859	115, 236 491, 237 77, 968 5, 017, 391 6, 272, 752 5, 258, 024 86, 446 788 23, 938 18, 855	3, 399 999 1, 109 526, 557 11, 271, 303 2, 422, 998 12, 800 4, 064 709	(1) 100 (1) 1, 100 2, 743, 500 1, 530, 200 9, 900	3, 399 1, 099 1, 109 527, 657 14, 014, 803 3, 953, 198 22, 700 4, 064 709
Smelt Sturgeon Sucker "mullet"	2, 676, 949	8, 100 (1)	8, 100 2, 676, 949	430 1, 770, 917	86, 291	2, 700 (1)	2, 700 86, 291
Whitefish: Common Menominee Yellow perch Yellow pike Drawfish Mussel shells Miscellaneous	1, 114, 999	246, 600 (1) 30, 600 153, 200 396, 200	3, 626, 376 109, 236 745, 549 1, 268, 199	4, 788, 574 221, 477 1, 429, 700 63, 376 51, 273 5, 284, 475	294, 679 41, 331 5, 219 22, 885	371, 700 (1) 100 66, 600 34, 100	666, 379 41, 331 5, 319 89, 485
Total	16, 376, 644	3, 010, 000	19, 386, 644	30, 973, 257	14, 694, 343	4, 760, 700	19, 455, 043

Lake fisheries of the United States and Canada, 1930—Continued CATCH: By LAKES—Continued

	N	amakan La	ike	Rainy Lake			
Species	United States	Canada	Total	United States	Canada	Total	
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
Chubs	57, 103 2, 968	(1)	57, 103 2, 968	41, 118	(1)	41, 118	
CrappiePike (jacks)Sturgeon	42, 786 254	1, 659 1, 445	44, 445 1, 699	70, 686 885	157, 687 626	228, 373 1, 511	
Sucker "mullet"Tullibees	19, 229 2, 000	(1) 1,695	19, 229 3, 695	1, 182	(1) 113, 163	1, 182 113, 163	
Whitefish, commonYellow perch	31, 352 401	10, 596 (1)	41, 948 401	57, 402 3, 059	32, 645 9, 630	90, 047 12, 689	
Yellow pike Miscellaneous	53, 029	16, 658	69, 687	76, 030	144, 804 3, 929	220, 834 3, 929	
Total	209, 122	32, 053	241, 175	, 250, 362	462, 484	712, 846	

1	Lal	ke of the Wo	ods		Total all lake	es
Species	United States	Canada	Total	United States	Canada	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Blue pike				11, 823, 091	5, 924, 800	17, 747, 891
Bowfin				19, 400	(1)	19, 400
Buffalofish	707	(1)	707 15, 573	1, 107	(1)	1, 107
Burbot Carp	15, 573	(1)	15, 573	642, 141	(1)	642, 141
Carp	16, 469	3, 134	19, 603	3, 293, 107	343, 534	3, 636, 641
Catfish and bullheads	23, 956	61, 183	85, 139	640, 888	309, 183	950, 071
Catfish and bullheads Chubs.				6, 161, 389	574, 400	6, 735, 789
Cisco				347, 356	506, 600	853, 956
Crappie	593	(1)	593	3, 561	(1)	3, 561
Eels.				5, 100	99, 200	104, 300
Goldeye	55	(1)	55	55	(1)	55
Goldfish				63, 929	(1)	63, 929
Lake herring				22, 481, 500	5, 391, 800	27, 873, 300
Lake herring Lake trout Minnows	310	23 473	23 783	9, 497, 026	3, 194, 773	12, 691, 799
Minnows	510	20, 110	20, 700	109	(1)	109
Mooneye				36, 488	(1)	36, 488
Mooneye Pike (jacks)	227 628	406 870	624 409	524, 404	752, 916	1, 277, 320
Dooly hogo	221,020	400, 870	054, 496	16, 901	(1)	
Rock bass Sauger pike Sheepshead	70.000	/1\	73, 602		(1)	16, 901
Changer pike	75, 602	(1)	75, 002	1, 830, 628 2, 909, 004	(1)	1, 830, 628
Sneepsnead						2, 909, 004
Smelt		450	1 040	430	(1)	430
Sturgeon Sucker ''mullet''	884	456	1, 340	42, 668	43, 727	86, 395
Sucker "mullet"	125, 102	(1)	125, 102	6, 746, 073	(1)	6, 746, 073
Sunfish				12, 440	(1)	12, 440
Tullibees		102, 110	1, 005, 133	905, 023	216, 968	1, 121, 991
White bass				483, 774	(1)	483, 774
Whitefish:						
Common	11, 028	259, 187	270, 215	10, 172, 223	2, 560, 328	12, 732, 551
Menominee				372, 135	(1)	372, 135
Yellow perch Yellow pike Crawfish	54, 721	2, 190	56, 911	6, 578, 109	3, 597, 320	10, 175, 429
Yellow pike	768, 225	541, 900	1, 310, 125	4, 001, 835	1, 221, 462	5, 223, 297
Crawfish				51, 273		51, 273
Mussel shells				5, 284, 475		5, 284, 475
Miscellaneous		138, 013	138, 013	, ===, ==0	1, 847, 742	1, 847, 742
		200, 010	200, 010		-,,	-, -, , , , , , , , , , ,
Total	2, 221, 876	1, 538, 516	3, 760, 392	94, 947, 642	26, 584, 753	121, 532, 395

¹ Where there has been a Canadian catch of these species it is included under "Miscellaneous."

Lake fisheries of the United States, 1930 OPERATING UNITS: BY LAKES

Item	Lake Ontario	Lake Erie	Lake Huron	Lake Michigan	Lake Superior	Lake of the Woods, Rainy Lake, and Namakan Lake	Total
Fishermen: On vessels On boats and shore—	Number 3	Number 326	Number 226	Number 931	Number 174	Number	Number 1,660
Regular Casual	81 93	915 206	766 126	903 987	959 145	79	3, 700 1, 617
Total	177	1,507	1,118	2, 821	1, 278	79	6,980
Vessels: Steam. Net tonnage. Motor. Net tonnage.		29 747 30 292	17 365 43 457	53 1, 092 254 2, 681	8 170 32 285		2, 374 366 3, 726
Total vessels		59 1, 039	60 822	307 3, 773	40 455		467 6, 100
Boats: Motor Other	67 84	279 416	362 118	793 650	560 396	154	2, 21, 1, 66
Haul seines Length, yards Gill nets—		83, 839	29, 689	5, 173	1,740	********	120, 441
"Bull," 3 to 3½ inches. Square yards "Shoal," 2¼ to 3¾		1, 158 339, 778		*********			1, 158 339, 778
Square yards "Shoal," 4 to 6 inches. Square yards	965 193, 500	5,438 1,135,496	2, 306 843, 001 6, 867 2, 545, 679	14, 706 3, 347, 593 35, 291 10, 489, 683	7, 201 2, 467, 171 7, 773 3, 885, 655	227 78, 963	35, 823 8, 496, 676 56, 561 18, 328, 976
Trammel nets	*******	9,882	*********	*********	**********	*********	9, 882
Hand	*******		5 6 3 14	4 4 13 21	20 20 16 32		79 130 32 67
Pound nets	48,500	34, 633 86	136, 700 716	345,000 668	263, 541 105	77	1, 231 828, 374 1, 652
Trap nets. Fyke nets. Dip nets.	154	3, 940 1, 183 23	1, 979 378	147 507 4	42 25	268	6, 295 2, 515 27
Crawfish pots Crowfoot bars (pairs) Tongs	*******			5, 418 285 12			5, 418 285 12
Forks				136 656			136

OPERATING UNITS: BY STATES AND LAKES

		New York		Penn-	Ohlo
Item	Lake Ontario	Lake Erie	Total	sylvania. Lake Erie	Lake Erie
Fishermen: On vessels	Number 3	Number 85	Number 88	Number 118	Number 123
Regular	81 93	18 76	99 169	34	709 180
Total	177	179	356	152	1,012
Vessels: Steam Net tonnage Motor Net tonnage	1	5 101 11 84	5 101 12 95	13 329 8 90	11 317 11 118
Total vessels	1 11	16 185	17 196	21 419	22 433

Lake fisheries of the United States, 1930—Continued OPERATING UNITS: BY STATES AND LAKES—Continued

			New York		Penn-	Ohio,
Item		Lake Ontario	Lake Erie	Total	Lake Erie	Lake Erie
Boats:		Number	Number	Number	Number	Number
Motor		67	18	85	12	210
Other Apparatus:		84	48	132	14	300
Haul seines			16	16		100
Length, yards			1,550	1,550		68, 452
Gill nets— "Bull." 3 to 3½ inches			508	598	560	N 775
Square yards			137, 088	137, 088	202, 690	*********
"Shoal," 234 to 334 inches		774	1,938	2,712	4, 344	4, 554
Square yards		114, 349	280, 215	394, 564	736, 320	708, 023
"Shool," 4 to 6 inches		193, 500	1, 961 325, 407	2, 926 518, 907	3, 198 756, 448	53, 641
Trammel nets			030, 101		100, 410	94
Square yards						9,883
Lines-			1		L.35.22	
Hand					********	100
Trot		50	58	108		120
Hooks		48, 500	9,960	58, 460		24, 673
Pound nets		*********	22		57	2.0
Trap nets Fyke nets		187 154	22	209 154	40	3, 842 548
Dip nets.	********					23
		_				
			Michigan			Promise.
						Indiana,
Item	T a bea	Yaka	Yaha	Yeles	Contraction	Lake
	Lake Erie	Lake Huron	Michigan	Lake	Total	Michigan
Fishermen:	Number	Number	Number	Number	Number	Number
On vessels		226	442	95	763	17
O- b- t d-b-see						
On boats and shore—						
Regular	154	766	481	259	1,660	16
	154 10	766 126	481 793	259 60	1,660 289	16 62
Regular						62
Regular Casual Total	10	126	793	60	289	62
Regular Casual Total Vessels: Steam	164	126 1, 118	793 1,716	60 414 8	289 3, 412 53	95
Regular Casual Total Vessels: Steam Net tonnage	10	126 1, 118 17 365	793 1,716 28 492	60 414 8 170	989 3, 412 53 1, 027	95 1 26
Regular Casual Total Vessels: Steam Net tonnage Motor	164	126 1, 118 17 365 43	793 1,716 28 492 115	8 170 18	989 3, 412 53 1, 027 176	95 1 26 5
Regular Casual Total Vessels: Steam Net tonnage	10	126 1, 118 17 365	793 1,716 28 492	60 414 8 170	989 3, 412 53 1, 027	95 1 26 5
Regular Casual Total Vessels: Steam Net tonnage Motor Net tonnage Total vessels	10	126 1, 118 17 365 43 457 60	793 1,716 28 492 115 1,100	8 170 18 121	989 3, 412 53 1, 027 176 1, 678	95 1 26 5 76
Regular Casual Total Vessels: Steam Net tonnage Motor. Net tonnage	10	126 1, 118 17 365 43 457	793 1,716 28 492 115 1,100	8 170 18 121	289 3, 412 53 1, 027 176 1, 678	95 1 26 3 76
Regular Casual Total. Vessels: Steam Net tonnage Motor. Net tonnage Total vessels Total net tonnage Boats:	10	126 1,118 17 365 43 457 60 822	793 1,716 28 492 115 1,100	8 170 18 121	989 3, 412 53 1, 027 176 1, 678	95 1 26 5 76 6 102
Regular Casual Total. Vessels: Steam Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor.	10 164	126 1,118 17 365 43 457 60 822	793 1,716 28 492 115 1,100 143 1,592 571	80 414 8 170 18 121 26 291	089 3, 412 53 1, 027 176 1, 678 229 2, 705	95 1 26 5 76 6 102
Regular Casual Total. Vessels: Steam Net tonnage. Motor Net tonnage Total vessels Total net tonnage. Boats: Motor Other	10	126 1,118 17 365 43 457 60 822	793 1,716 28 492 115 1,100 143 1,592	80 414 8 170 18 121 26 291	989 3, 412 53 1, 027 176 1, 678 229 2, 705	95 1 26 5 76 6 102
Regular Casual Total. Vessels: Steam. Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other Apparatus:	10 164	126 1,118 17 365 43 457 60 822	793 1,716 28 492 115 1,100 143 1,592 571	80 414 8 170 18 121 26 291	089 3, 412 53 1, 027 176 1, 678 229 2, 705	95 1 26 5 76 6 102
Regular Casual Total Vessels: Steam Net tonnage Motor Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards	10 164	126 1, 118 17 365 43 457 60 822 362 118	793 1,716 28 492 115 1,100 143 1,592 571 509	8 170 18 121 26 291 174 73	089 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754	95 1 26 5 76 6 102
Regular Casual Total. Vessels: Steam Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other Apparatus: Haul seines. Length, yards. Gill nets—	10 164 39 54 35 13,837	126 1, 118 17 365 433 457 60 822 362 118 63 29, 689	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333	8 170 18 121 26 291 174 73 7 1,740	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599	95 1 26 5 76 6 102
Regular Casual Total Total. Vessels: Steam Net tonnage. Motor Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other Apparatus: Haul seines. Length, yards. Gill nets— "Shoal," 2¼ to 3¾ inches. Souare yards	10 164 39 54 35 13,837	126 1, 118 177 365 43 437 60 822 362 118 63 29, 689 2, 306 843, 001	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519	80 414 8 170 18 121 26 291 174 73 7 1,740 2,335	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160	95 126 5 76 6 102 40 31
Regular Casual Total. Vessels: Steam Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor Other. Apparatus: Haul seines. Length, yards. Gill nets— "Shoal," 2¼ to 3¾ inches. Square yards. "Shoal," 4 to 6 inches.	10 164 39 54 35 13,837	126 1, 118 177 365 43 437 60 822 362 118 63 29, 689 2, 306 843, 001	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519 1,238,387	8 170 18 121 26 291 174 73 7 1,740 2,325 730,911	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599	95 1 26 5 76 6 102
Regular Casual Total Total. Vessels: Steam Net tonnage Motor. Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets "Shoal," 2¼ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards	10 164 39 54 35 13,837	126 1, 118 177 365 43 437 60 822 362 118 63 29, 689 2, 306 843, 001	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519	88 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213	289 3, 412 53 1, 027 1, 176 1, 678 229 2, 705 1, 146 754 45, 599 10, 160 2, 812, 299	95 1 26 26 5 76 6 102 40 31
Regular Casual Total. Vessels: Steam. Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other. Apparatus: Haul seines. Length, yards. Gill nets— "Shoal," 2½ to 3¾ inches. Square yards. "Shoal," 4 to 6 inches. Square yards. Lines—	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519 1,238,387 22,842	88 170 18 121 26 291 174 73 7,740 2,335 730,911 4,213 2,029,280	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 33, 922 10,873,989	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual Total Total. Vessels: Steam Net tonnage. Motor Net tonnage. Total vessels. Total net tonnage. Boats: Motor Other Apparatus: Haul seines. Length, yards. Gill nets— "Shoal," 2¼ to 3¾ inches. Square yards. "Shoal," 4 to 6 inches. Square yards. Lines— Hand	10 164 39 54 35 13, 837	126 1, 118 17 365 43 457 60 822 362 118 63 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519 1,238,387 22,842	8 170 18 121 26 291 174 73 7,740 2,335 730,911 4,213 2,029,280 20	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 33, 922 10,873,889 29	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual Total Total Net tonnage Net tonnage Motor Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets "Shoal," 2¼ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines— Hand Hooks Troll.	10 164	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519 1,238,387 22,842 6,299,030 4 4 13	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 33, 922 10,873,989 29 30 32	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual Total Net tonnage Net tonnage Motor Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets "Shoal," 2¼ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines— Hand Hooks Troll Hooks	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 3	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 1,28,387 22,842 6,299,030 4 4 4 13 21	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 33, 922 10,873,889 29 30 32 67	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual Total Total Net tonnage Net tonnage Motor Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets— "Shoal," 2¼ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines— Hand Hooks Troil. Hooks Trot.	10 164 39 54 35 13,837	126 1, 118 177 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 14 144	793 1, 716 28 492 115 1, 100 143 1, 592 571 509 1 333 5, 519 1, 238, 387 22, 842 6, 299, 030 4 13 21 75	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32 333 333	3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 33, 922 10,873,989 29 30 32 67 552	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual Total Vessels: Steam Net tonnage Not tonnage Not tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets "Shoal," 2¼ to 3¾ inches Square yards "Shoal," ¼ to 6 inches Square yards Lines Hand Hooks Troll Hooks	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 3	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 1,28,387 22,842 6,299,030 4 4 4 13 21	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 30 33, 922 10,873,989 29 30 32 67 552 413, 341	62 98 1 26 3 76 6 102 40 31
Regular Casual. Total. Vessels: Steam. Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other. Apparatus: Haul seines. Length, yards. Gill nets— "Shoal," 2½ to 3¾ inches. Square yards. "Shoal," 1 to 6 inches. Square yards. Lines— Hand. Hooks. Trot. Hooks. Trot. Hooks. Pound nets. Trap nets.	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 14 136, 700 716 1, 979	793 1,716 28 492 115 1,100 143 1,592 571 509 1,333 5,519 1,238,387 22,842 6,299,030 4 4 13 21 17,500 482 147	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32 333 3159,041 59 42	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 30, 32, 221 10, 873, 989 29, 30 32, 67 552 413, 341 1, 261 2, 204	62 98 1 26 3 76 6 102 40 31
Regular Casual Total Total Net tonnage Net tonnage Motor Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets "Shoal," 2¼ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines— Hand Hooks Troll Hooks Trot Hooks Pound nets Trap nets Fyke nets	10 164 39 54 35 13,837	126 1, 118 177 365 43 437 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 14 136, 700 716	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 1,288,387 22,842 6,299,030 4 4 4 13 21 75 117,600 482 147 51	8 170 18 121 26 291 174 73 7 1, 740 2, 335 730, 911 4, 213 2, 029, 280 20 16 32 333 159, 041	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 30, 33, 922 10,873,989 29 30 32 67 67 413, 341 1, 261 2, 204 4, 1, 072	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual. Total. Vessels: Steam. Net tonnage. Notor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other. Apparatus: Haul seines. Length, yards. Gill nets— "Shoal," 2¼ to 3¾ inches. Square yards. "Shoal," 4 to 6 inches. Square yards. Lines— Hand. Hooks. Troll. Hooks. Trot. Hooks. Pound nets. Trap nets. Fyke nets. Dip nets.	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 14 136, 700 716 1, 979	793 1, 716 28 492 115 1, 100 143 1, 592 571 509 1, 333 5, 519 1, 238, 387 22, 842 6, 299, 030 4 4 4 13 21 75 117, 600 482 147 51 4	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32 333 3159,041 59 42	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 30, 322 10,873,989 29 30 32 67 552 413, 341 1, 261 1, 204 1, 072 4	95 1 26 5 76 6 102 40 31 387 99, 817 99, 817 7
Regular Casual Total Vessels: Steam Net tonnage Motor Net tonnage Total vessels Total net tonnage Boats: Motor Other Apparatus: Haul seines Length, yards Gill nets Square yards "Shoal," 214 to 334 inches Square yards "Shoal," 4 to 6 inches Square yards Lines— Hand Hooks Troll. Hooks Trot. Hooks Pound nets Trap nets Fyke nets Dip nets. Crowfoot bars (pairs)	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 14 136, 700 716 1, 979	793 1,716 28 492 115 1,100 143 1,592 571 509 1 333 5,519 1,238,387 22,842 6,299,030 4 4 13 21 17,600 482 147 4 237	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32 333 3159,041 59 42	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 30 33, 922 10,873,989 29 30 32 67 53 41, 261 1, 204 1, 204 1, 27 4 237	95 1 26 5 76 6 102 40 31 99, 817 99, 817
Regular Casual Total. Vessels: Steam. Net tonnage. Motor. Net tonnage. Total vessels. Total net tonnage. Boats: Motor. Other. Apparatus: Haul seines. Length, yards. Gill nets. Square yards. "Shoal," 2¼ to 3¾ inches. Square yards. "Shoal," 4 to 6 inches. Square yards. Lines. Hooks. Troll. Hooks. Trol. Hooks. Pound nets. Trap nets. Fyke nets. Dip nets.	10 164 39 54 35 13,837	126 1, 118 17 365 43 457 60 822 362 118 29, 689 2, 306 843, 001 6, 867 2, 515, 679 5 6 3 14 136, 700 716 1, 979	793 1, 716 28 492 115 1, 100 143 1, 592 571 509 1, 333 5, 519 1, 238, 387 22, 842 6, 299, 030 4 4 4 13 21 75 117, 600 482 147 51 4	8 170 18 121 26 291 174 73 7 1,740 2,335 730,911 4,213 2,029,280 20 20 16 32 333 3159,041 59 42	289 3, 412 53 1, 027 176 1, 678 229 2, 705 1, 146 754 106 45, 599 10, 160 2, 812, 299 30, 322 10,873,989 29 30 32 67 552 413, 341 1, 261 1, 204 1, 072 4	62 95 1 1 26 5 76 6 102 40 31 31 99, 817 99, 817 7

Lake fisheries of the United States, 1930—Continued OPERATING UNITS: By STATES AND LAKES—Continued

			Wisconsin	1	1	Minnesot	a
Item	Illinois, Lake Michi- gan	Lake Michigan	Lake Superior	Total	Lake Superior	Lake of the Woods, Rainy Lake, and Nama- kan Lake	
Fishermen: On vessels. On boats and shore—	Number 38	Number 434	Number 77	Number 511	Number 2	Number	Number 2
Regular	26	380 132	172 35	552 167	528 50	79	607 50
Total	64	946	284	1, 230	580	79	659
Vessels: Steam Net tonnage Motor Net tonnage	2 29 8 133	22 545 126 1, 372	13 154	22 545 139 1,526	1 10	.	10
Total vessels Total net tonnage	10 162	148 1, 917	13 154	2, 071	10		10
Boats: Motor	18	164 110	92 40	256 150	294 283	154	448 283
Length, yards Gill nets— "Shoal," 2¼ to 3¾ inches— Square yards. "Shoal," 4 to 6 inches— Square yards. Lines— Trot	1, 193 260, 405 1, 190 376, 775	4, 840 7, 607 1, 748, 984 10, 723 3, 663, 584 167 227, 400 178 456	2,080	4, 840 8, 845 2, 330, 479 12, 803 4, 933, 124 271, 145 224 473	3, 628 1, 154, 765 1, 480 586, 835 234 60, 755	227 78, 963 	3, 628 1, 154, 765 1, 707 665, 798 234 60, 755 77 268
Crawfish pots Crowfoot bars (pairs) Forks		5, 418 18 13		5, 418 18 13		208	208

OPERATING UNITS OF LAKE ONTARIO: 1 BY GEAR

	Gill r	nets	Married To		7.5	Total.
Item	"Shoal," 21/4 to 33/4 inches	"Shoal," 4 to 6 inches	Lines, trot	Trap nets	Fyke nets	exclusive of dupli- cation
Fishermen: On vesselsOn boats and shore—	Number 3	Number	Number	Number	Number	Number
Regular	22 49	16 18	30	47	20	81 93
Total	74	34	30	47	20	177
Vessels, motor: 11 to 20 tons	1 11					1
Motor Other Apparatus:	31 17	13 10	29	26 26	16 16	67 84
Number Square yards Hooks	774 114, 349	965 193, 500	50 48, 500	187	154	

¹ Includes Niagara River below the Falls and the St. Lawrence River.

Lake fisheries of the United States, 1930—Continued OPERATING UNITS OF LAKE ERIE: 3 BY GEAR

	1				Gill ne	ts		m
Item	Ha		3	Bull," to 3½ nches	''Shoal, 234 to 33 inches	6 41	to 6	Tram- mel nets
Fishermen: On vessels.	Nu	nber	N	umber 130	Number 31		mber 226	Number
On boats and shore— Regular Casual		312 62				28	6 8	14
Total		374	-	130		14	240	14
Vessels: Steam— 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons				2 8		8 3 4 2	5 11 3	
Total		*****		10 222		1 28 15	20 499	
Motor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons.				12 1 1		19 9 1	17 3 1	
Total				14 131		19	21 195	
Total vessels		****		24 353		57 98	41 694	
Boats: Motor Other		60 149				12	4 4	7
Apparatus: Number Length, yards Square yards		157 ,839	3	1, 158	10, 8		5, 438 35, 496	9, 882
Item	Li	nes	ot	Pound nets	Trap nets	Fyke nets	Dip	Total, exclu- sive of dupli- cation
Fishermen: On vessels.	Num- ber	Nu		Num- ber	Num- ber	Num- ber	Num	Num- ber 326
On boats and shore— Regular Casual	8 50	1	25	36	487	141	2	915
Total	58	1	25	36	488	143	2	3 1,507
Vessels: Steam— 11 to 20 tons 21 to 30 tons 31 to 40 tons 41 to 50 tons 61 to 70 tons Total								8 13 5 2 1
Net tonnage								747
5 to 10 tons 11 to 20 tons 21 to 30 tons								20 9
Total					******			30 292
Total vessels								59 1, 039
Boats: Motor Other Apparatus:	2 2	1	25	13 17	166 139	40 59		279 416
Number Hooks	50 100	34, 6	81	86	3, 940	1, 183	2	3

² Includes Niagara River above the Falls.

Lake fisheries of the United States, 1930—Continued OPERATING UNITS OF LAKE HURON: BY GEAR

	Track	Gin	nets	00	Line	S	Down	/Dean	Falsa	Total,
Item	Haul seines	"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches	Hand	Troll	Trot	Pound	Trap	Fyke	sive of dupli- cation
Fishermen: On vessels	Number	Number 98	Number 156	Num- ber	Num- ber		Number 24	Num- ber 42	Num- ber	Num- ber 226
On boats and shore— Regular———— Casual————	73 67	84 40	172 38	5	3	15 2	264	339 5	49 2	766 126
Total	140	222	366	5	3	79	288	386	51	1, 118
Vessels: Steam— 5 to 10 tons 11 to 20 tons		1	4 5			1 2	2			5
21 to 30 tons 31 to 40 tons 51 to 60 tons		3 2 2	3 2 2			1 1				3 2 2
Total Net tonnage		9 279	16 354			7 174	2 11			17 365
Motor— 5 to 10 tons 11 to 20 tons 21 to 30 tons 31 to 40 tons		7 2 2 1	13 5 3 1			1 1 1 1	4 1 1	12 3		28 11 3
Total Net tonnage		12 173	22 265			4 95	6 60	15 126		43 457
Total vessels Total net ton- nage		21 452	38 619			11 269	8 71	15 126		60 822
		702	010	******	******	203	/1	120		022
Boats: Motor Other Apparatus:	45 33	50 28	96 18	2	1 2	8	104 7	143 42	25 5	362 118
Number Length, yards		2, 306	6, 867	5	3	144	716	1, 979	378	
Square yards Hooks			2, 545, 679	6	14	136, 700				

OPERATING UNITS OF LAKE MICHIGAN: 1 BY GEAR

		Gill	nets		Lines			
Item	Haul seines	"Shoal," 2¼ to 3¾ inches	"Shoal," 4 to 6 inches	Hand	Troll	Trot	Pound nets	Trap nets
Fishermen: On vessels On boats and shore—	Number 10	509	Number 819			nber Number Numb		Number 14
Regular	26 8	372 74	590 48	4	6 7	32 2	241 2	30
Total	44	955	1, 457	4	13	240	352	44
Vessels: Steam— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons. 51 to 60 tons.		1 18 5 5 1	5 27 6 6 1			3 5 5 6 1	1	A70.000
Total Net tonnage		30 622	45 839			21 527	1 15	

³ Includes operating units used in the mussel fisheries of streams tributary to Lakes Erie, Huron, and Michigan. Those used in Lakes Erie and Huron were inconsiderable and are included herein to avoid disclosure of private enterprise.

Lake fisheries of the United States, 1930—Continued OPERATING UNITS OF LAKE MICHIGAN: BY GEAR—Continued

		- 10	115	Gill	nets				Lin	es		1		Proposition of the last
Item	Hi	nul nes	234	hoal," to 31/4	"Shoal," to 6 inch	4 dies	Han	d	Tro	11	Tre		Pound	Trap nets
Vessels—Continued Meetor— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons.	Nu	nber 3 1	N	umber 78 40 9 4		7 49 61 9 3	Num	ber	Num	ber		ber N 22 15 3	Vumbe 33 6	
Total Net tonnage		$^{4}_{29}$		131 1, 456	2, 2	22 47						10 53	40 317	47
Total vessels Total net tonnage		4 29		161 2, 078	3, 0	67 86					98	80	41 332	6 47
Boats: Motor Other Apparatus:		3 3		185 83	13	51		1		2 1 -		18	152 10	23
Number Length, yards Square yards Hooks	5, 1	16		14, 706 17, 593	35, 25 10, 489, 68			4		3	45, 00		668	147
Item			ke	Dip	Craw- fish pots	18	Crow- foot bars	Т	ongs	F	orks	Pie		Total, exclusive of dupli- cation
Fishermen. On vessels. On boats and shore— Regular. Casual.		Nu	76 30	Number 4	Number 2 30 10	N	umber 9 285	N	umber	Nu	mber 9 141		mber	Number 931 903 987
Total			150	4	42		294		12		150		676	2, 821
Vessels: Steam— 5 to 10 tons. 11 to 20 tons. 21 to 30 tons. 31 to 40 tons. 41 to 50 tons. 51 to 60 tons.														7 26 9 8 2 1
Total Net tonnage														53 1, 092
Motor— 5 to 10 tons			15 5		1									160 76 13 5
Total Net tonnage			20 171		1 7									254 2, 681
Total vessels			20 171		1 7									307 3, 773
Boats: Motor			37 25 507	2 4	16 23 5, 418		284 10 285		12		47 103 136	4	257 119 356	793 650

Lake fisheries of the United States, 1930—Continued OPERATING UNITS OF LAKE SUPERIOR: BY GEAR

	BOYY	Gill	nets		Lines	S				Total,
Item	Haul seines	"Shoal" 2¼ to 3¾ inches	"Shoal" 4 to 6 inches	Hand	Troll	Trot	Pound nets	Trap nets	Fyke nets	exclu- sive of dupli- cation
Fishermen: On vesselsOn boats and shore—	Num- ber	Number 117	Number 107	Num- ber	Num- ber	Number 73		Num- ber	Num- ber	Num- ber 174
Regular	6		454 51	20	16	250 7	39 8	4	11	959 145
Total	7	1,009	612	20	16	330	53	4	11	1, 278
Vessels: Steam— 5 to 10 tons		1 2 2 2	1 1 3 1			1 2 1 1				1 3 3 1
Total Net tonnage		6 132	6 136			5 105				8 170
Motor— 5 to 10 tons		17 1 1 1	23 2			12 2				27 3 1 1
Total Net tonnage		20 193	25 187			14 101	3 16			32 285
Total vessels Total net tonnage_		26 325	31 323			19 206	3 16			40 455
Boats: Motor Other Apparatus:	3 5		331 79	20	8	208	23 9	2	10	560 396
Number Length, yards	1,740	7, 201			16	614	105	42		
Square yards Hooks		2, 467, 171	3, 885, 655	20	32	263, 541				

OPERATING UNITS OF LAKE OF THE WOODS, RAINY LAKE, AND NAMAKAN LAKE: By $_{\rm GEAR}$

Item	Gill nets, "shoal" 4 to 6 inches	Pound nets	Fyke nets	Total, exclusive of duplication
Fishermen on boats and shore—regularBoats, motor	Number 63 126	Number 21 42	Number 27 54	Number 79 154
Apparatus: Number Square yards	227 78, 963	77	268	

Lake fisheries of the United States, 1930—Continued OPERATING UNITS: BY STATES AND COUNTIES

	4			N	lew Yor	rk				
Item	Ca- yuga	Chau- tauqua		Jeffer- son	Mon- roe	Niagara	Or- leans	7 15 214 26, 924 476 93, 440 1 250	St. Law- rence	
Fishermen: On vessels	Num- ber	Numbe 8		Num- ber 3	Num- ber	Number	Num- ber		Num- ber	
Regular Casual	i		4 14 1 23		1 25	4 20	4		18	
Total	1	13	0 37	66	26	24	4	30	18	
Vessels: Steam Net tonnage Motor. Net tonnage		10 1 8	1	1 11						
Total vessels		18		11						
Boats: Motor. Other. Apparatus: Haul seines. Length, yards.	1 1	2 10 1, 550	6		7 10	5 15	3 1		18	
Gill nets— "Buil," 3 to 3½ inches Square yards. "Shoal," 2¼ to 3¾ inches Square yards. "Shoal," 4 to 6 inches Square yards. Lines— Trot Hooks Trap nets Fyke nets	2, 160		8	18, 588 129 16, 400 3 750	66 21, 120 4 1, 280	3, 762 40	3, 920 1 250	26, 924 476 93, 440	37 41, 600	
Item	New Y Conti		Penn- sylva- nia			Ohio				
25000	Wayne	Total	Erie	Ashta- bula	Cuya		Lake	Lorain	Lucas	
Fishermen: On vessels On boats and shore—	Number	Num- ber 88	Number 118	Number 14		Num- ber 35 66	ber		Num- ber	
Regular	6 14	99 169	34	96 11		14 198 20 49			74 25	
Total	20	356	152	121	(59 313	53	42	99	
Vessels: Steam Net tonnage Motor Net tonnage		5 101 12 95	13 329 8 90	32		5 3 92 61 1 10 9 109		32		
Total vessels		17 196	21 419	32		6 13 01 170		1 32		
Boats: Motor Other Apparatus: Haul seines Length, yards	10 4	85 132 16 1, 550	12 14	30		6 75 7 78 - 12 - 7,898	18	11	17 50 16 4, 434	

[·] Exclusive of the operating units used in the mussel fisheries of streams tributary to the Great Lakes.

Lake fisheries of the United States, 1930—Continued OPERATING UNITS: BY STATES AND COUNTIES—Continued

Item	New Y Cont	ork— inued	Penn- sylva- nia			Oh	io		
The man bear was the	Wayne	Total	Erie	Ashta- bula	Cuya- hoga	Erie	Lake	Lorain	Lucas
Apparatus—Continued. Gill nets— "Bull," 3 to 3½ inches	Number	598	560		Numbe		- Num- ber	Num- ber	Number
Square yards. "Shoal," 2½ to 3¾ inches_ Square yards. "Shoal," 4 to 6 inches . Square yards. Trammel nets.	291 41, 795 302 64, 160	137, 088 2, 712 394, 564 2, 926 518, 907	202, 690 4, 344 736, 320 3, 198 756, 448			4 481, 78 2 11, 89	38 150 35 48	70	
Square yards Lines— Trot Hooks Pound nets.	5, 050	108 58, 460	57	3, 450	40	9,88	32 5	3 120	8, 350 2
Trap nets. Fyke nets. Dip nets.		209 154	40	73		0 1,56	32 369	183	197
T N. T. A. L.	Ohio	-Conti	nued	14		Mich	igan		
Item	Ot- tawa	San- dusky	Total	Al- cona	Alger	Alle- gan	Alpena	An- trim	Are- nac
Fishermen: On yessels	Num- ber	Number	Number 123	Num- ber	Num- ber 27	Num- ber 4	Number 55		Num
On boats and shore— Regular Casual	246 63	6	709 180		32 9	6	62		34
Total	309	6	1, 012	25	68	10	122	6	54
Vessels: Steam Net tonnage Motor Net tonnage			11 317 11 118		3 44 4 27	2 11	8 222 3 19		
Total vessels Total net tonnage			22 435		7 71	2 11	11 241		
Boats: MotorOther Apparatus:	53 95	3		1	16 10	3	34 4	1 4	2
Haul seines. Length, yards. Gill nets—	55, 151	924	68, 452			333			7, 469
"Shoal," 2¼ to 3¾ inches_ Square yards. "Shoal," 4 to 6 inches Square yards.	160 11, 550 24 2, 000		4, 554 708, 027 279 53, 641	788	80 15, 040 801 247, 300	50 8, 500 260 43, 160	1, 369	900	4, 25
Trammel nets	50		94 9, 882 50		5				
Hooks Troll Hooks Trot	100		123		5 16 32 101		26		
Hooks. Pound nets. Trap nets. Fyke nets. Dip nets.	3, 168 710 203 2		24, 673 25 3, 842 548 23	17 34	49,000	12	52, 000 46 165	4	50

Lake fisheries of the United States, 1930-Continued OPERATING UNITS: BY STATES AND COUNTIES-Continued

				Mic	higa	n-Cor	tinued			
Item	Bara- ga	Bay	Benzie	Ber- rien		harle- voix	Che- boy- gan	Chip- pewa	Delta	Em- met
Fishermen: On vessels	Num- ber	Num- ber	Num- ber 25	Num- ber 2	N	umber 69	Num- ber 36	Num- ber 10	Number 56	Num- ber
On boats and shore— Regular Casual	16		2	1	9	27 4	49 8	67 13	196	
Total	28	181	27	4	9	100	93	90	254	29
Vessels: Steam			4 56 4 65	3	4	3 39 19 178	1 11 13 117	2 11 2 13	19	
Total vessels			8 121	8	5	22 217	14 128	4 24	19 186	
Boats: Motor Other Apparatus: Haul seines	14	57 34	1	1	1 2	13 2	28 5	34 17	81 50	
Length, yards	88 25, 320	12 3, 192	315 103, 950	12, 58	5 1	504 151, 200 5, 640 507, 930	157 34, 375 885 193, 950	214 37, 870 729 396, 714	332 66, 475 4, 516 1, 449, 585	3, 717
Hand Hooks Trot Hooks Pound nets Trap nets Fyke nets Dip nets		500 66 584		8, 40	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9,000 23	3 1, 200 66 473	5 5 61 19, 600 74 71 4	21 27, 600 150 83 51	24
				Mic	higa	n—Con	tinued	optanti	THE REAL PROPERTY.	14
Item	Goge- bic	Grand Trav- erse	Houg		ron	Iosco	Ke- wee- naw	Lee- lanau	Mack- inac	Manis- tee
Fishermen: On vessels. On boats and shore—	Num- ber		9	38 b	18	Num- ber 21	1		ber 79	Num- ber 22
Regular Casual	12 6	3	-	96 18	204	96				4
Total	18	4	2	152	249	118	50	82	217	26
Vessels:			1 9 2 7	2 34 10 61	2 57 1 10	1 15 5 68			8 27	6
Total vessels		2	3	12 95	3 67	6 83	1	20	28	6 46
Boats: Motor	9 4	2	2 5	78 21 6	87 14 8	32 3	2	16	62	1 3

Lake fisheries of the United States, 1930—Continued OPERATING UNITS: BY STATES AND COUNTIES—Continued

	neglida		1	Michiga	n—Con	tinued			
Item	Goge- bic	Grand Trav- erse	Hough- ton	Huron	Iosco	Ke- wee- naw	Lee- lanau	Mack- inac	Manis- tee
Apparatus—Continued. Gill nets— "Shoal," 2½ to 3¾ inches. Square yards. "Shoal," ¼ to 6 inches. Square yards.	Num- ber 33 10, 571 15 6, 660	Number 436 69, 232 240	526, 455	129 58, 950 500	ber 4 1, 064 1, 539	ber 276 69, 000 351	262, 249 2, 180	957 261, 688 2, 491	826
Lines— Hand— Hooks— Troll— Hooks		1 1 5 5	10 10				 8 16		
Trot	6, 500 1	1 400 25 12	84 38, 341 6	35, 200	19, 000 150 1	22,600	7	251	10, 000

	4,000			Michi	gan—Co	ontinued			
Item	Mar- quette	Mason	Me- nomi- nee	Mon- roe	Mus- kegon	Oceana	On- tona- gon	Ot- tawa	Presque Isle
Fishermen: On vessels On boats and shore—	Num- ber 14				Num- ber 17	Number 7	11	32	Number 27
Regular Casual	9	3	47	101	18 6		6 2	22	3 6
Total	23	21	. 61	107	41	10	19	54	36
Vessels: Steam Net tonnage Motor Net tonnage	1 41 2 17	8			1 12 5 45	2	2 51 1 6	6 96 1 7	
Total vessels Total net tonnage	3 58				6 57		3 57	7 103	6 112
Beats: Motor Other Apparatus: Haul seines Length, yards.	6 1	2	22 4	26 31 23 9, 385	3		4 4	12	6 2
Gill nets— "Shoal," 2½ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines—	127 14, 630 190 56, 790	702	405 60, 605 966 235, 705		78 10, 850 1, 391 226, 300	800 172	40, 495 210	1, 014 214, 708 1, 022 218, 508	310, 356 201
TrotHooksPound netsTrap netsFyke nets	26 16, 100		222				6, 900 3	17,600	

Lake fisheries of the United States, 1930—Continued OPERATING UNITS: BY STATES AND COUNTIES—Continued

	10000			M	lichi	gan-	-Con	inue	d		
Item	Sagi- naw	Sanila	c Scho		St		Tus-		Van Buren	Wayne	Total
Fishermen: On vessels	Number	Numb	er Num	ber 22	Nun	iber 11	Numt	er N	umber 26	Number	Number 768
On boats and shore— Regular Casual		7	15	3		33		16	2	53 4	1, 660 243
Total	1	7	15	25	13	48		24	28	57	2, 666
Vessels: Steam Net tonnage Motor Net tonnage				2 57 4 67		2 41		2	4 90 3 21		1, 027 176 1, 678
Total vessels				6	F,	2 41		2 14	7		220 2, 705
Boats: Motor Other Apparatus:	1		6 3	1		12 8		8	1	13 23	812 335
Haul seines Length, yards Gill nets—	660						2	1		12 4, 452	106 45, 599
"Shoal," 2½ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines—		3, 35	8 40,	705		167 150 455 400	27, 0	19	258 86, 100 744 58, 800		10, 160 2, 812, 299 33, 922 10, 873, 989
Hand.		1		3500		2 - 3 - 2 - 12		93819	919, 200	419	29 30 32 67 552 413, 341 1, 261 2, 204 1, 072
		Ind	iana				Ill	inois	3	Wi	sconsin
Item	Lake	La- porte	Porter	Т	otal	Cod	ok I	ake	Tota	l Ash- land	Bay- field
Fishermen: On vesselsOn boats and shore—	Num- ber 3	Num- ber 14	Num- ber		um- per 17	Nu		um- ber	Num	Num- ber	Number 75
Regular	2 2	10	4		16 2		13	13	5	26 13	
Total Vessels: Steam	7	24	4	-	35		34	30	-	2	256
Net tonnage Motor Net tonnage		26 4 64			26 5 76		16 5 88	13 3 45		8	12 148
Total vessels Total net tonnage	12	5 90			$\frac{6}{102}$		6104	58		32	12 148
Boats: Motor Other Apparatus: Gill nets—	2	6	2		10 1		5	13	1	8 11 5	
"Shoal," 2½ to 3¾ inches Square yards "Shoal," 4 to 6 inches Square yards Lines—	4, 503	338 91, 354 536 150, 294	3, 960	99	387 , 817 536 , 294	81, 7	100	790	1, 19 260, 40 1, 19 376, 77	5 4, 000 0 175	566, 215
Trot. Hooks. Pound nets. Fyke nets.	2	2	3		₇			1		800	43 42, 045 46

Lake fisheries of the United States, 1930—Continued OPERATING UNITS—BY STATES AND COUNTIES—Continued

	Wisconsin—Continued											
Item	Brown	Do	or	Douglas		eno- sha	Wau nee	- towo			Oconto	
Fishermen: On yessels	Numbe 5		nber 130	Nun		um- ber 21	ber	ber	ber	- Num- ber	Number	
On boats and shore— Regular	9'		139		4 6	3	3	34]		1 1	9 4:	
Total	21.	5	269	THE STATE OF	12	24		55 4	9 8	3 92	2 78	
Vessels:	210		200		==			-		- 32	-	
Steam Net tonnage Motor	25	2	50		1	7			1 8 8	309	9	
Net tonnage	179		523	201	6	94		70 17				
Total vessels Total net tonnage	25 179		50 523		1 6	7 94		7 89 19		5 16 3 356		
Boats: Motor Other Apparatus: Houl soines	3: 5:	3	48 10		4 6	1		18		4 8		
Haul seines. Length, yards Gill nets— "Shoal," 21/4 to 33/4 inches.	4, 840	2,	897		40	402		91 62				
Square yardsShoal," 4 to 6 inches Square yardsLines-	78, 750 470 77, 030	5, 2, 210,			40	190	249, 5	,	0 98	3 1, 291 6 445, 938	1,708 215, 420	
Trot Hooks		67,	900	9	00 17	7,000	28, 7	21 00 4, 80	0	43, 200		
Pound nets	369 369)	68 9		2			3	0 1	3 4	66	
Crawfish pots	5, 418								-			
	Wisconsin—Contd. Minnesota											
Item	Ozau- kee	She- boy- gan	T	otal	Coo	ok :	Lake	Koochi- ching	St. Louis	Roseau and Lake of the Woods	Total	
Fishermen: On yessels	Num- ber 23	Num- ber 8	Nu	mber 511	Nun		Num- ber	Number	Num- ber	Num- ber	Number	
On boats and shore— Regular Casual	8 2	13		543 149	3	372 10	89 18	12	74 22		607 50	
Total	33	21		1, 203	8	382	107	12	98	60	659	
Vessels: Steam Net tonnage Motor	4 109	2 90		22 545 139					1			
Net tonnage	40			1, 526					10		10	
Total vessels Total net tonnage	5 149	90 90		161 2, 071					1 10		10	
Boats: Motor Other Apparatus:	6	11 3		239 140		205 176	44 63	24	59 44		448 283	
Haul seines. Length, yards. Gill nets:—				4, 840								
"Shoal," 2¼ to 3¾ inches_ Square yards "Shoal," 4 to 6 inches Square yards	435 83, 340 365 68, 740	90	2, 33	2,803	775, 8	365 1. 328	437 55, 780 85 39, 970	36 8, 400	745 223, 120 791 293, 950	167	3, 628 1, 154, 768 1, 707 665, 798	
Lines— Trot Hooks Pound nets Fyke nets	52, 000 6	9 13, 800 23	27	214 1, 145 224 473	54, (219	4, 950	12	1, 800 5	60	234 60, 755 77 268	
Fyke nets				473 5, 418						268	2	

CATCH: BY GEAR

	anthrop 9				New	You	rk			
Species	Hau	seines	G.	ill ne	ets		Trot	lines	Trap	nets
Blue pike Bowfin Burbot Carp. Catfish and bullheads			591, 7	86 64 21 30	2	06 - 90 - 52 - 32 -			Pounds 3, 299 667 35, 374 4, 611 43, 570	Value \$469 22 2, 870 253 4, 708
Eels			176.1	70	5, 4 14, 2 3, 1	14 -	4, 800		12, 930 7, 971	746 1, 015
Lake trout Minnows Pike (jacks) Rock bass Sturgeon Sucker "mullet" Sunfish White bass	110, 000	7,00	7, 9 0 16, 6	79 98	2, 1	20 - 94 43 - 33 -		7, 270	6, 137 952 770 47, 378 8, 072 404 63, 255	604 87 211 1, 637 369 30 8, 265
Whitefish, commonYellow perchYellow pike			39, 5	25 17	3, 15	27 -			17, 619 24, 048 277, 057	859 4, 085 26, 230
10141		1	k—Continu	-	101, 0	10	51, 500	Pennsy		20, 200
Species	Fyke		То				Gill r		Pound	nets
Blue pike	Pounds	Value \$8	Pounds 595, 085 817		alue 9, 075 30		ounds 66, 323	Value \$70, 654	Pounds 417, 420	Value \$16, 697
Burbot Carp Catfish and bullheads Cisco	16, 739 1, 928 35, 772	1, 069 96 3, 578	103, 977 47, 260 83, 472 58, 604 5, 100		6, 429 2, 401 8, 718 5, 446 270	2	1, 101 124 30, 045	22 5 27, 605	155 1, 579 3, 471 149	3 63 174 18
EelsLake herringLake troutMinnows			189, 100 27, 926 109	1	4, 960 4, 179 21		1, 229	159		2
Mooneye. Pike (jacks) Rock bass Sheepshead Sturgeon			8, 625 1, 192 38, 255 181, 209		855 107 9, 675		468 49	19 13		602 442
Sturgeon Sucker "mullet" Sunfish Sunfish White bass Whitefish, common Yellow perch Yellow pike		441 253 317	181, 209 12, 440 802 256, 539 64, 091 26, 265	4	9, 921 622 63 8, 128 4, 303 4, 427	6	5, 835 423 47, 043 59, 838 249	117 21 129, 408 3, 590 24	36, 844 107, 900 18, 516 13, 423	1,844 21,580 1,111 1,300
Total		5, 950	1, 700, 868	14	9, 630	2, 7	12, 727	231, 637	623, 291	43, 974
	Pe	nnsylva	nia—Contin	nued				Ohi	0	
Species	Trap	nets	To	tal			Haul se	ines	Gill n	ets
Blue pike Bowfin Burbot	Pounds 27, 665	Value \$1, 207	Pounds 2, 211, 408		alue 8, 558	Po	ounds 5, 327 1, 042	Value \$266 10	Pounds 1, 059, 912	Value \$52, 996
Carp Catfish and bullheads Cisco Goldfish	5, 500	115 34 275	7, 006 2, 543 8, 971 230, 194	2	140 102 449 7, 623		418 53, 950 62, 710 325 51, 076	38, 158 3, 136 39 511	25, 341 10, 921 287 54, 272 245	506 437 14 6, 513 2
Lake trout		298 89	1, 229 115 22, 961 2, 173		159 2 919 544		21, 328 12, 541 77, 661	213 627 14, 330	501, 090 16, 051	25, 055 482
Sturgeon_Sucker "mullet"White bassWhitefish, commonYellow perchYellow pike	16, 333 2, 000 7, 100 9, 855	326 100 426 975	29, 074 39, 267 754, 943 85, 454 23, 527	150	581 1, 965 0, 988 5, 127 2, 299		14, 870 29, 894 5, 063 17, 891	2, 297 1, 495 202 2, 147	51, 949 5, 563 37, 205 1, 536, 858 66, 927	1, 039 278 7, 241 61, 474 8, 031
Total	82, 847	3, 845	3, 418, 865	-	9, 456	-	54, 096	63, 439	3, 366, 621	164, 068

Lake fisheries of the United States, 1930—Continued CATCH: By GEAR—Continued

	l'esperies			Ohio—Con	tinued				
Species				Line	es		Down		
200 4 200	Tramm	er nets	На	nd	Tro	ot	Pound nets		
Blue pike	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 31, 123	Value \$1, 556	
Burbot Carp Catfish and bullheads Mooneye	87, 648 670	\$3, 506 33			73 3, 180 16, 302	\$2 160 1,600	120 10, 615 3, 146 9, 001	425 157 90	
Sauger pike Sheepshead Sucker, "mullet"	17, 034	511	2, 356	\$259	3, 612	216	2, 694 33, 137	81 663	
White bass Whitefish, common					35	2	4, 147 1, 821	207 364	
Yellow perchYellow pike	18	2	8, 643 11, 117	951 2, 052	307 34	30 5	639 5, 454	25 654	
Total	105, 410	4, 053	22, 116	3, 262	23, 543	2, 015	101, 897	4, 224	

	Ohio—Continued											
Species	Trap	nets	Fyke	nets	Dip	nets	Tot	al				
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value				
Blue pikeBowfin	7, 919, 950	\$395, 997	153 635	\$8	133	\$13	9, 016, 598 1, 677	\$450, 836				
Burbot	361, 768	7, 235	2, 201	44			389, 921	7, 797				
Carp	111, 114	4, 445	63, 777	2, 551	2, 041	102	1, 243, 246	49, 784				
Catfish and bullheads	136, 507	6, 825	34, 559	1,728	112	11	254, 293	13, 504				
Cisco	2, 614	314	7	1			57, 218	6, 86				
Goldfish	8, 724	87	3, 884	39			63, 929	639				
Mooneye	2, 555	26	3, 314	33	10		36, 198	365				
Sauger pike	971, 386	48, 569	20, 380	1,019	18 53	2 4	1, 507, 771	75, 53				
Sturgeon	2, 026, 423	60, 693	256, 506	7, 695	- 55	4	2, 800, 034 217	84, 013				
Sucker, "mullet"		25, 163	243, 718	4, 874	214	10	1, 702, 073	34, 047				
White bass		16, 441	75, 244	3, 762	211	10	443, 705	22, 188				
Whitefish, common	557, 640	112, 527	10, 211	0, 102			596, 666	120, 132				
Yellow perch		103, 538	46, 908	1,976	63	6	4, 186, 937	168, 202				
Yellow pike		170, 984	288, 406	34, 609			1, 814, 715	218, 484				
Total	17, 699, 189	952, 909	1, 039, 692	58, 346	2, 634	148	24, 115, 198	1, 252, 464				

				Michigan				Michigan											
Control of the second	T - 1		G TI			Li	nes												
Species	Haul se	ines	Gill	nets	На	nd	Tr	oll											
Count Painter by or	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value											
Bowfin	8, 921	\$177					129	\$2											
Burbot	23	1	10, 673	\$326	72	\$3													
Carp	1,067,508	27, 751	9, 366	244			65	1											
Catfish and bullheads	72, 754	5, 840	1, 312	79			66	6											
Chubs	1,010	101	1, 356, 828	137, 891			22	2											
Lake herring	67, 777	1, 761	2, 500, 782	62, 520	106	3													
Lake trout	84	12	4, 298, 523	601, 793	9, 285	1, 301	40, 136	5, 619											
Pike (jacks)	9,648	965	12, 216	1, 221	145	15													
Rock bass	1, 881	56	141	4			84	3											
Sauger pike	753	45	148, 203	8, 892			291	17											
Sheepshead	20, 320	610	346	10															
Sucker "mullet" Whitefish:	592, 763	15, 260	313, 128	7, 832	220	4	22	1											
Common	48	7	3, 067, 552	469, 335	2,016	308	259	40											
Menominee	904	54	250, 861	15, 052	58	3													
Yellow perch	34, 680	3, 225	201, 643	18, 752															
Yellow pike	156, 772	26, 024	146, 306	24, 287	913	152	778	129											
Total	2, 035, 846	81, 889	12, 317, 880	1, 348, 238	12, 815	1,789	41, 852	5, 820											

CATCH: BY GEAR-Continued

			Mic	higan—C	ontinued			
Species	Lines-	-Trot	Pound	nets	Trap	nets	Fyke nets	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin Burbot Carp Catfish and bullheads Chubs Cisco Lake herring	1, 058 1, 642 3, 006 7, 300 4, 330	\$21 43 45 230 730	352 4, 937 31, 791 6, 218 1, 077 1, 270 4, 896, 457	\$7 179 834 484 107 33 122, 411	3, 145 3, 111 178, 127 56, 873 12, 173	\$63 120 4, 632 4, 077 920	3, 201 1, 380 213, 347 53, 162 2, 980 70 17, 049	\$63 54 5, 549 2, 957 298 426 2, 303
Lake trout Mooneye. Pike (Jacks) Rock bass. Sauger pike Sheepshead Sucker "mullet"	1, 207	121	267, 122 10, 857 216 12, 238 17, 472 562, 961	37, 397 1, 086 6 735 523 16, 149	47, 630 6, 841 62, 668 6, 928 1, 781, 491	4, 764 205 3, 760 208 47, 192	16, 449 175 25, 327 6, 546 25, 102 38, 413 413, 520	2, 53: 19: 1, 50: 1, 15: 10, 77:
Whitefish: Common Menominee Yellow perch Yellow pike	4, 061	2, 818 377 299	3, 812, 491 52, 673 75, 872 327, 149	583, 311 3, 161 7, 057 54, 307	890, 929 1, 540 444, 223 493, 343	136, 312 92 41, 313 81, 896	12, 780 973 105, 011 77, 053	1, 956 56 9, 776 12, 790
Total	1, 120, 453	155, 368	10, 081, 153	827, 787	4, 240, 049	344, 062	1, 012, 538	52, 400

	Michigan—Continued												
Species	Dip r	nets	Sper	ars	Crowfor	ot bars	Ton	igs					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value					
Bowfin. Burbot. Carp. Lake herring. Pike (jacks) Smelt. Sucker "mullet". Yellow perch. Mussel shells ⁵ . Pearls and slugs ³ .	36 518 150 430 9,039	\$1 15 4 181	310 229 182	\$2 31 11 17	2, 783, 400		16,000						
Total	10, 173	205	814	61	2, 783, 400	86, 290	16,000	363					

			Michigan	-Contin	nued	9 54 6	India	ina—
Species	For	rks	Pick	rs	To	tal	Gill	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Bowfin Burbot Carp. Cathsh and bullheads Chubs Clisco Lake herring Lake trout Mooneye Pike (jacks) Rock bass. Sauger pike Sheepshead Smelt Sucker "mullet" Whitefish: Common Menominee Yellow pike. Mussel shells 5 Pearls and slugs 3	306, 200				21, 290 1, 502, 364 193, 391 1, 381, 390 1, 340 7, 631, 304 5, 813, 316 175 107, 340 15, 709	\$335 727 39,071 13,673 140,049 513,865 190,849 813,865 2 10,735 2,503 471 14,955 2,503 4,97,436 1,194,087 18,421 80,517 199,884 134,552 10,845	15, 798 204, 211 210, 139 185, 941 273 8, 565 10, 935	13 1, 291
Total	306, 200	7, 457	1, 600, 500	51, 287	35, 579, 673	2, 963, 016	635, 862	54, 527

⁵ From streams tributary to Lakes Michigan, Huron, and Erie. The mussels shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprises.

CATCH: BY GEAR-Continued

Indiana-Continued

Species	Pound	nets	Crowfo	oot bars	Pic	ks	Tota	ıl				
Alley Founds Venter	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value				
Buffalofish Burbot Carp Chubs Lake herring Lake trout Sucker "mullet" Whitefish, common Yellow perch Mussel shells 5 Pearls and sluxs 5	400 175 1, 512 44, 552 510 650 2, 130 1, 899	10 72 1,012 75					400 15, 973 1, 512 204, 211 254, 691 186, 451 923 10, 695 12, 834 472, 000	\$28 944 72 16,056 11,393 24,983 36 1,648 1,128 23,200 1,150				
Total	51, 828	1, 758	284, 000	14, 587	188, 000	9, 763	1, 159, 690	80, 635				
Species	Gill	nets		d nets	Tot	al	Wiscon Haul s					
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value				
Carp. Catfish and bullheads Chubs. Lake herring. Lake trout Yellow perch.	538, 192 65, 000 382, 442 75, 500	1, 400 42, 104	2,000	\$180 	540, 192 65, 000 382, 942 76, 500	\$46, 817 1, 400 42, 164 6, 810		575				
Total	1, 061, 134	96, 851	3, 500	340	1, 064, 634	97, 191	249, 299	7, 766				
	36.6	1	,	Wisconsin	—Continue	d						
Species	G	ill nets		Lines	s, trot		Pound nets					
	Pounds	V	alue	Pounds	Value	Pour	nde V	Zalne				

Species	Gill no	ets	Lines	s, trot	Pound nets		
	Pounds	Value	Pounds	Value	Pounds	Value	
BurbotCarp	45, 366 119, 865	\$459 3,596			21, 518	\$213	
Catfish and bullheads Chubs Lake herring Lake trout Pike (jacks)	9, 569 2, 624, 737 2, 226, 129 1, 535, 606 9, 028	574 176, 226 40, 286 141, 391 903	510, 724	\$43, 500	832, 952 3, 630, 173 744, 826 38, 828	54, 213 68, 242 63, 483 3, 883	
Sheepshead Sucker "mullet" Whitefish:	364 502, 053	20, 330			709 251, 027	21 10, 165	
Common	429, 657 45, 906 409, 202	49, 399 5, 041 20, 460 622			143, 220 11, 666 204, 600	16, 467 1, 392 10, 230 362	
Yellow pike	7, 970, 936	459, 298	510, 724	43, 500	7, 217 5, 886, 736	228, 671	

⁵ From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

CATCH: BY GEAR-Continued

				Wisconsin—Continued							
Species	Fyke 1	Fyke nets		Crawfish pots		Crowfoot bars		Forks			
come appoint make	Pounds	Value	Po	ounds	Value	Pounds	Value	Pou	inds	Value	
Burbot	21, 517 120, 118 57, 667 479, 418 117, 440 19, 413 1, 457	\$212 3, 604 3, 460 33, 900 1, 761 1, 941 44									
Sucker "mullet" Whitefish, common Yellow perch	251, 026 71, 609 614, 638	10, 165 8, 233 30, 732	10, 165 8, 233 30, 732								
Mussel shells 5	15, 262	763		51, 273	\$2, 514	70, 918	\$1,666 277	35	, 457	\$832 137	
Total	1, 769, 565	94, 815	- 1	51, 273	2, 514	70, 918	1, 943	35	, 457	969	
Species	Wisconsin—Total			Gill nets			Minnesota ts Lines, trot			t	
	Pounds	Valu	e	Po	unds	Value	Pou	nds	1	alue	
Burbot Carp Catfish and bullheads Chubs Lake herring Lake trout.	88, 401 479, 713 76, 805 3, 937, 107 5, 973, 742 2, 791, 156	14, 4, 264, 110,	609 339 289		15, 573 41, 386 367, 663 196, 108	\$195 		7, 898		\$13, 702	
Pike (jacks) Sauger pike Sheepshead	67, 269 2, 530	-	727		227, 470 49, 068	12, 896 2, 709					
SturgeonSucker "mullet" TullibeeWhitefish.	1, 004, 106	40,	660		652 112, 388 604, 016	195 2, 344 15, 080					
Common Menominee Yellow perch Yellow pike Crawfish Mussel shells 5 Pearls and slugs 5	644, 486 57, 572 1, 228, 440 35, 933 51, 273 106, 375	6, 61, 1, 2, 2,	433		98, 888 7, 554 2, 441 470, 152	9, 323 579 122 46, 155					
Total	16, 544, 908	839,	476	10,	193, 359	308, 330	97	, 898		13, 702	

⁵ From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

CATCH: BY GEAR-Continued

-emiliate man	Minnesota—Continued								
Species	Pound	nets	Fyke	e nets	Total				
inte L. Home VIII col	Pounds	Value	Pounds	Value	Pounds	Value			
BuffalofishBurbot	235	\$4	472	\$10	707 15, 573	\$14 195			
Carp	5, 489 7, 985 57, 103	109 678 1, 111	10, 980 15, 971	220 1, 358	16, 469 23, 956 98, 489	329 2, 036 2, 183			
CrappieGoldeye	3, 165	559	396 55	72 2	3, 561 55	631			
Lake herring Lake trout Pike (jacks)	63, 116	3, 156	50, 584	3, 288	8, 367, 663 294, 006 341, 170	190, 210 41, 152 19, 340			
Sauger pikeSturgeon	8, 178 977	451 293	16, 356 394	903 118	73, 602 2, 023	4, 063			
Sucker "mullet" Tullibee Whitefish:	13, 900 301, 007	278 7, 525	27, 800	556	154, 088 905, 023	3, 178 22, 605			
Common Menominee	5, 514	606			104, 402 7, 554	9, 929 579			
Yellow perchYellow pike	19, 292 171, 056	963 16, 675	36, 448 256, 076	1, 824 25, 608	58, 181 897, 284	2, 909 88, 438			
Total	657, 017	32, 408	415, 532	33, 959	11, 363, 806	388, 399			

CATCH: BY LAKES

	Lake Or	ntario-			Lake	Erie			
Species	New York		New Y	York	Pennsylvania		Ohio		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Blue pike	30, 753 817	\$3, 222 30	564, 332	\$25, 853	2, 211, 408	\$88, 558	9, 016, 598 1, 677	\$450, 836	
Burbot	95, 612 26, 204 80, 246	6, 144 1, 145 8, 429	8, 365 21, 056 3, 226 58, 604	285 1, 256 289 5, 446	7, 006 2, 543 8, 971 230, 194	140 102 449 27, 623	389, 921 1, 243, 246 254, 293 57, 218	7, 797 49, 784 13, 504 6, 867	
Eels Goldfish	5, 100	270					63, 929	639	
Lake herring Lake trout Minnows	189, 100 24, 082 109	14, 960 3, 626 21	3, 844	553	1, 229	159			
Mooneye Pike (jacks)	8, 625	855			115	2	36, 198	362	
Rock bass Sauger pike	705	65	487	42			1, 507, 771	75, 531	
Sheepshead Sturgeon Sucker "mullet" Sunfish	24, 483 50, 617 12, 440	6, 351 2, 061 622	13, 772 130, 592	3, 324 7, 860	22, 961 2, 173 29, 074	919 544 581	2, 800, 034 217 1, 702, 073	84, 012 65 34, 047	
White bass	78 87, 400 29, 943 15, 583	15 12, 584 1, 943 2, 846	724 169, 139 34, 148 10, 682	48 35, 544 2, 360 1, 581	39, 267 754, 943 85, 454 23, 527	1, 965 150, 988 5, 127 2, 299	443, 705 596, 666 4, 186, 937 1, 814, 715	22, 185 120, 132 168, 202 218, 484	
Total	681, 897	65, 189	1, 018, 971	84, 441	3, 418, 865	279, 456	24, 115, 198	1, 252, 446	

CATCH: BY LAKES-Continued

	1-1	Lake Er	ie-Continu	ied	Lake Huron—		Lake Mic	
Species	Mich	nigan	То	tal	Mich	ilgan	Michigan	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Blue pike	899 150 594, 339 56, 141 12, 800	\$18 6 15, 453 3, 195 1, 280 35	11, 792, 338 2, 576 405, 442 1, 861, 184 322, 631 12, 800 347, 356	565, 247 \$35 8, 228 66, 595 17, 437 1, 280 39, 971	506, 420	276 23, 322 10, 303 50, 344	13, 193 10, 264 1, 418 743, 526	\$4 2 76, 5
Goldfish Lake herring Lake trout	10	1 2	63, 929 5, 083	639 713 366		118, 709 250, 115		17, 0 332, 1
Mooneye. Pike (jacks) Rock bass Sauger pike Sheepshead	8, 183 1, 721 22, 999 60, 586	818 52 1, 380 1, 818	36, 488 8, 183 2, 208 1, 530, 770 2, 883, 581	818 94 76, 911 86, 749	13, 200 198, 254 5, 859	11,894	788 23, 938 17, 034	2, 8 1, 4 5
Smelt Sturgeon Sucker "mullet" White bass	154, 047		16, 162 2, 015, 786 483, 696	3, 933 47, 763 24, 198	2, 676, 949			18, 0
Whitefish: Common Menominee Yellow perch Yellow pike Mussel shells 5 Pearls and slugs 4	91 33, 578 38, 784		1, 522, 012 91 4, 340, 117 1, 887, 708		3, 379, 776 109, 236 714, 949 1, 114, 999	517, 105 6, 554 66, 499 185, 091	4, 218, 851 186, 477 112, 762 41, 666 4, 706, 100	645, 4 11, 1 10, 4 6, 9 134, 5 10, 8
Total	987, 107	39, 093	29, 540, 141	1, 655, 454	16, 376, 644	1, 319, 902	13, 927, 049	1, 268, 9

			Lake	e Michig	an—Contin	nued			
Species	Indiana		Illine	ois	Wiseo	nsin	То	Total	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Buffalofish Burbot Carp	15, 973 1, 512	\$28 944 72			479, 461	\$849 14, 383	115, 236 491, 237	\$: 2, 19 14, 7;	
Catfish and bullheads. Chubs. Lake herring Lake trout. Pike (jacks).	204, 211 254, 691 186, 451	11, 393 24, 983	65, 000 382, 942	1, 400 42, 164	76, 550 3, 529, 462 5, 269, 098 2, 316, 085 58, 241	99, 719	5, 017, 391 6, 272, 752 5, 258, 024	4, 6 363, 0 129, 6 585, 9	
Rock bass Sauger pike Sheepshead Smelt							788	8, 6 1, 4 5	
Sucker "mullet" Whitefish:	923				1, 004, 106	40, 660	1, 770, 917	58, 7	
Common Menominee					35,000	63, 844 4, 176	4, 788, 574 221, 477	710, 9 15, 3	
Yellow perch Yellow pike Crawfish					1, 227, 604 21, 710	1,086	1, 429, 700 63, 376	79, 8 8, 0	
Mussel shells 5 Pearls and slugs 5	472,000	23, 200 1, 150					51, 273 5, 284, 475	2, 5 160, 2 12, 4	
Total	1, 159, 690	80, 635	1, 064, 634	97, 191	14, 821, 884	712, 186	30,973,257	2, 158, 9	

⁵ From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams trib tary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lal Michigan, State of Michigan, to avoid disclosure of private enterprise.

Lake fisheries of the United States, 1930—Continued CATCH: BY LAKES—Continued

	Lake Superior										
Species	Mich	igan	Wisco	nsin	Minne	esota					
	Pounds	Value	Pounds	Value	Pounds	Value					
BurbotCarp	1, 068 747	\$43 15	2, 331 252	\$35 8							
Catfish and bullheads Chubs Lake herring Lake trout Pike (jacks) Sauger pike	854 118, 644 2, 198, 996 1, 654, 231 3, 702 4, 064	76 11, 864 55, 042 231, 594 370 244	255 407, 645 704, 644 475, 071 9, 028	15 40, 764 10, 570 61, 759 903	268 8, 367, 663 293, 696 70	\$16 190, 210 41, 106 6					
SheepsheadSucker "mullet" Whitefish:	77, 716	1, 985	709	21	8, 575	267					
Common Menominee Yellow perch Yellow pike	204, 601 11, 205 4, 383 8, 662	31, 304 673 408 1, 437	85, 458 22, 572 836 14, 223	10, 255 2, 257 42 661	4, 620 7, 554	728 579					
Total	4, 288, 873	335, 055	1, 723, 024	127, 290	8, 682, 446	232, 912					
Species	Lake Super	ior—Total	Lake of the Woods, Rainy Lake, and Namakan Lake— Minnesota		Total, al	l lakes					
	Pounds	Value	Pounds	Value	Pounds	Value					
Blue pike Bowfin Buffalofish			707	\$14	11, 823, 091 19, 400 1, 107	\$568, 469 382 42					
Burbot. Carp. Catfish and bullheads. Chubs.	999 1, 109 526, 557	\$78 23 91 52, 644	15, 573 16, 469 23, 956 98, 221	195 329 2, 036 2, 167	1, 107 642, 141 3, 293, 107 640, 888 6, 161, 389	17, 116 106, 150 42, 989 469, 444					
Cisco_ Crappie Eels_ Goldeye_			3, 561 55	631	347, 356 3, 561 5, 100 55	39, 971 631 270 2					
Goldfish Lake herring Lake trout Minnows	2, 422, 998	255, 822 344, 459	310	46	63, 929 22, 481, 500 9, 497, 026 109	519, 101 1, 174, 876 21					
Mooneye	12, 800	1, 279	341, 100	19, 334	36, 488 524, 404 16, 901	366 37, 657 578					
Sauger pike Sheepshead Smelt	709	244 21	73, 602	4, 063	1, 830, 628 2, 909, 004 430	94, 549 87, 510					
Sturgeon Sucker "mullet" Sunfish	86, 291	2, 252	2, 023 145, 513	606 2, 911	42, 668 6, 746, 073 12, 440	10, 890 185, 859 622					
Tullibee			905, 023	22, 605	905, 023 483, 774	22, 605 24, 213					
Common Menominee Yellow perch Yellow pike	5, 219	42, 287 3, 509 450 2, 098	58, 181 897, 284	9, 201 2, 909 88, 438	10, 172, 223 372, 135 6, 578, 109 4, 001, 835	1, 599, 008 25, 433 330, 418 515, 279 2, 514					
Crawfish Mussel shells ⁵ Pearls and slugs ⁸					51, 273 5, 284, 475	2, 514 160, 250 12, 409					
Total	14, 694, 343	695, 257	2, 681, 360	155, 487	94, 947, 642	6, 050, 267					

⁴ From streams tributary to Lakes Michigan, Huron, and Erie. The mussel shells taken in streams tributary to Lakes Huron and Erie, which were inconsiderable, have been included with those taken in Lake Michigan, State of Michigan, to avoid disclosure of private enterprise.

Industries related to the fisheries of the Lake States, 1930

Item		New York	Pennsyl- vania	Ohio	Michigan
Transporting: Persons engaged		Number	Number 3	Number 18	Number 16
Vessels— Steam Net tonnage Motor Net tonnage		**********	17	2 41 6 66	7 95
Total vessels Total net tonnage			1 17	8 107	7 95
Wholesale and manufacturing: Establishments Persons engaged—		148.0	7	34	59
Proprietors Salaried employees Wage earners:		21 28	14	56 58	75 55
Average for season Average for year Salaries and wages paid Manufactured products ¹ Fishermen's prepared products:		\$144, 572	57 57 \$93, 733 \$74, 031	199 191 \$486, 247 \$268, 025	246 209 \$442, 746 \$270, 712
Persons engaged Products. Products		8 \$356	3 \$98	\$5, 400	\$81,876
Item	Indiana	Illinois	Wisconsin	Minnesota	Total
Transporting: Persons engaged	Number	Number	Number 13	Number 26	Number 76
Vessels— Steam Net tonnage Motor Net tonnage		**********	1 28 1 19	2 107 2 69	6 193 16 249
Total vessels Total net tonnage			2 47	4 176	22 442
Wholesale and manufacturing: Establishments Persons engaged—	4	47	40	21	228
Proprietors	4	66 166	49 34	21 27	306 375
Average for season Average for year Salaries and wages paid Manufactured products Fishermen's prepared products:	\$11,500 \$20,555	366 327 \$1, 353, 091 \$631, 051	250 145 \$280, 256 \$298, 487	140 103 \$173, 843 \$102, 290	1, 330 1, 102 \$2, 985, 988 \$1, 763, 205
Persons engaged Products	\$2,750	20 \$43, 632	153 \$44, 178	\$78, 743	\$257, 033.

¹ These production figures are not comparable with those shown in previous bulletins, since packaged fresh and frozen fishery products are now included.

Note.—Of the total number of persons employed on transporting craft, 21 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 545 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of New York, 1930

WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Chautauqua, Jefferson, and Oswego Counties	Erie County	Total
Establishments Persons engaged:	5	11	16
Proprietors Salaried employees Wage earners—	5	16	21
	7	21	28
Average for season	14	53	67
Average for year	14	51	65
Paid to salaried employees	\$9,950	\$59, 301	\$69, 251
Paid to wage earners	13,250	62, 071	75, 321
Total salaries and wages-	23, 200	121, 372	144, 572

PRODUCTS MANUFACTURED

Item	Quantity	Value
Blue pike, fresh fillets pounds. Unclassified products:	50, 200	\$12, 332
Smoked ¹ do Miscellaneous ² do	313, 100 (³)	84, 690 1, 032
Total		98, 054

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 8]

	1	
Sturgeon roe, saltedpounds	330	\$356

Includes smoked eels, salmon, sturgeon, tullibee, and whitefish.
 Includes pickled herring, cisco caviar, salted cisco, and whitefish.

3 Data not available.

-Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 8 have also been included as fishermen. This fact should be considered in computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Pennsylvania, 1930

TRANSPORTING IN ERIE COUNTY

Persons engaged on vessels	3
Vessels, steamNet tonnage	17
WHOLESALE AND MANUFACTURING IN ERIE COUNTY	
OPERATING UNITS, SALARIES, AND WAGES	

Establishments_ Persons engaged: Proprietors__ 14 Salaried employees. 6 Wage earners-Average for season_. 57 Average for wear

Trease for year		01
Paid to salaried employees	\$31,	845
Paid to wage earners	61,	888

Total salaries and	wages	93, 733

Industries related to the lake fisheries of Pennsylvania, 1930—Continued WHOLESALE AND MANUFACTURING IN ERIE COUNTY—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Blue pike, frozen fillets	111, 250 251, 086	\$22, 250 51, 781
Total	362, 336	74, 031

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 3]

Sturgeon roe, saltedpounds	8 \$98

¹ Includes fresh blue pike and yellow perch fillets.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 3 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 3 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Ohio, 1930 TRANSPORTING

Item	Erie County	Lake County	Lucas County	Ottawa County	Total
Persons engaged on vessels	Number 10	Number 3	Number 2	Number 3	Number 18
Vessels: Steam— 5 to 10 tons		1		1	1 1
Total Net tonnage		1 31		1 10	2 41
Motor— 5 to 10 tons 11 to 20 tons	3 2	e de prante	1	i i i mga i	4 2
Total Net tonnage	5 60		1 6		6 66
Total vessels	5 60	1 31	1 6	1 10	8 107

WHOLESALE AND MANUFACTURING OPERATING UNITS, SALARIES, AND WAGES

Item	Ashta- bula and Lake Counties	Cuya- hoga and Lorain Counties	Erie County	Lucas and Ottawa Counties	Total
Establishments Persons engaged:	7	11	- 11	5	34
Proprietors	8 7	17 19	23 22	8 10	56 58
Average for season Average for year	25 25	87 79	70 70	17 17	199 191
Paid to salaried employees Paid to wage earners	\$20, 987 32, 728	\$64, 787 97, 152	\$89, 732 113, 952	\$42, 688 24, 221	\$218, 194 268, 053
Total salaries and wages	53, 715	161, 939	203, 684	66, 909	486, 247

Industries related to the lake fisheries of Ohio, 1930—Continued WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item	Quantity	Value
Blue pike, fresh fillets pounds Salmon, smoked do Sturgeon, smoked do Tullibee, smoked do Whitefish, smoked do Yellow perch, fresh fillets do Miscellaneous 1 do	302, 046 176, 250 11, 646 281, 898 58, 741 132, 993 111, 069	\$60, 659 67, 950 7, 535 58, 580 17, 982 27, 369 27, 950
Total	1, 074, 643	268, 025

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 5]

Blue pike, fresh filletspounds Yellow perch, fresh filletsdo	19, 500 5, 700	\$3, 900 1, 500
Total	25, 200	5, 400

¹ Includes frozen fillets of blue pike, smoked cisco and sablefish.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 16 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products, 4 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Michigan, 1930 TRANSPORTING

Item	Cheboygan County	Mackinac County	Total
Persons engaged on vessels	Number 14	Number 2	Number 16
Vessels, motor: 5 to 10 tons	3 1 2	1	3 2 2
Total Net tonnage	6 81	1 14	95

WHOLESALE AND MANUFACTURING OPERATING UNITS, SALARIES, AND WAGES

Item	Bay and Arenac Counties	Berrien and Ottawa Counties	Cheboygan and Alpena Counties	Charlevoix and Grand Traverse Counties	Huron County
Establishments Persons engaged:	7	6	6	6	
ProprietorsSalaried employees Wage earners—	12 7	8	5 6	3 5	7 3
Average for season	26 18	26 23	12 11	8 8	21 21
Paid to salaried employees Paid to wage earners	\$20,600 21,050	\$10, 150 28, 900	\$9,650 9,467	\$9,380 8,050	\$9,500 23,200
Total salaries and wages	41, 650	39, 050	19, 117	17, 430	32, 700

Industries related to the lake fisheries of Michigan, 1930—Continued

WHOLESALE AND MANUFACTURING-Continued

OPERATING UNITS, SALARIES, AND WAGES-Continued

Item	Mackinac, Chippewa, Delta, and Schoolcraft Counties	Menominee, Houghton, and Marquette Counties	Newaygo, Mason, and Muskegon Counties	Wayne and St. Clair Counties	Total
Establishments	9	3	3	14	59
Persons engaged: Proprietors Salaried employees	9 6	3 3	4	24 25	75 55
Wage earners— Average for season Average for year	25 21	34 24	22 22	72 61	246 209
Paid to salaried employeesPaid to wage earners	\$15, 990 23, 870	\$11, 900 24, 440	\$2,000 22,700	\$118, 800 73, 099	\$207, 970 234, 776
Total salaries and wages	39, 860	36, 340	24, 700	191, 899	442, 746

PRODUCTS MANUFACTURED

Item	Quantity	Value
	pounds 407, 700	\$106, 66
Lake herring: Salted	do 2, 423, 040	81, 730
Smoked. Lake trout, smoked. Whitefish, smoked	do 9, 600 do 34, 900 49, 800	1, 780 7, 860 11, 590
Fresh-water mussel button blanks Miscellaneous ¹	gross 156, 740	28, 122 32, 970
Total		270, 715

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 162]

Chubs, smokedpounds_	22, 000	\$6,500
Lake herring: Salted	1, 034, 466 76, 560	29, 857 7, 956
Lake trout: do do Salted do do do do do do do do do do do do do	168, 750 8, 200	25, 312 2, 275
Whitefish: Salteddo	100, 000	7, 000
Smokeddo Caviar, freshdo	9, 900 950	2, 500 476
Total	1, 420, 826	81, 876

¹ Includes smoked carp, Menominee, salmon, Russian sturgeon, and tullibee; and fresh fillets of lake trout and whitefish.

² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons employed on transporting craft, 2 have also been included as fishermen, and among the total persons engaged in the preparation of fishermen's manufactured products 162 have been included as fishermen. These facts should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Indiana, 1930

WHOLESALE AND MANUFACTURING IN LA PORTE COUNTY

OPERATING UNITS, SALARIES, AND WAGES

Establishments	4
Persons engaged:	
Proprietors	4
Salaried employees	1
Wage earners—	
Average for season	5
Average for year	5
Paid to salaried employees	\$5, 500
Paid to wage earners	6, 000
Total salaries and wages	11, 500

PRODUCTS MANUFACTURED

Item	Quan- tity	Value
Chubs, smokedpounds Miscellaneous 1	74, 600 (²)	\$18, 650 1, 905
Total.		20, 555

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 3]

Chubs, smoked pounds Lake trout, smoked do Whitefish, smoked do	7, 500 2, 500 1, 000	\$1, 875 625 250
Total	11, 000	2, 750

¹ Includes smoked lake trout and fish oil.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 3 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Illinois, 1930

WHOLESALE AND MANUFACTURING IN COOK COUNTY

OPERATING UNITS, SALARIES, AND WAGES

OTENATING ONLIS, SALAMES, AND WAGES		
Establishments		47
Persons engaged: ProprietorsSalaried employees		66 166
Wage earners— Average for season Average for year		$\frac{366}{327}$
Paid to salaried employeesPaid to wage earners	\$750, 602,	
Total salaries and wages	1, 353,	091

² Data not available.

Industries related to the lake fisheries of Illinois, 1930—Continued WHOLESALE AND MANUFACTURING IN COOK COUNTY—Continued PRODUCTS MANUFACTURED

PRODUCTS MANUFACTURED

Item	Quantity	Value
Chubs, smoked pounds Eels, smoked do Lake trout, smoked do Salmon, smoked do Tullibee, smoked do Miscellaneous 1 do	772, 600 20, 334 23, 390 610, 330 437, 800 602, 366	\$189, 056 6, 810 5, 654 221, 100 86, 856 121, 575
Total	2, 466, 820	631, 051

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 20]

Chubs, smoked	pounds 131, 30	0 \$34, 997
Eels, smoked	do 40	
Lake herring, smoked	do 20, 00	0 2,000
Lake trout, smoked	do 15, 00	0 4,500
Sturgeon, smoked	do 2, 65	0 1,430
Whitefish, smoked	do 1,50	0 525
Total	170, 85	0 43,632

¹ Includes smoked buffalofish, butterfish, carp, ciscoes, lake herring, flounders, sea herring, sturgeon, and shad; and pickled sea herring.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State.

Industries related to the lake fisheries of Wisconsin, 1930 TRANSPORTING

Item	Bayfield County	Menominee County	Total
Persons engaged on vessels.	Number 10	Number 3	Number 13
Vessels: Motor Net tonnage Steam Net tonnage Net tonnage	1 28	1 19	1 19 1 28
Total. Net tonnage	1 28	1 19	2 47

WHOLESALE AND MANUFACTURING OPERATING UNITS, SALARIES, AND WAGES

Item	Bay- field and Ash- land Coun- ties	Brown County	Doug- las County	Mani- towoc and Wau- paca Coun- ties	Mari- nette County	Mil- waukee County		Total
Establishments Persons engaged:	4	7	4	3	3	15	4	4
Proprietors	3 4	9 12	4	3 2	3	18 14	9 2	4 3
Average for season Average for year	55 14	67 36	8 7	25 9	. 17 10	48 43	30 26	25 14
Paid to salaried employees Paid to wage earners	\$8, 650 15, 840	\$26, 621 45, 328	\$3,900 5,000	\$1, 050 8, 855	\$10,754	\$34, 200 54, 250	\$42,708 23,100	\$117, 12 163, 12
Total salaries and wages	24, 490	71, 949	8,900	9,905	10,754	88, 450	65, 808	280, 25

Industries related to the lake fisheries of Wisconsin, 1930—Continued WHOLESALE AND MANUFACTURING—Continued

PRODUCTS MANUFACTURED

Item Qu		Value	
Chubs, smokedpounds	528, 472	\$102, 991	
Lake herring:			
Salteddo	922, 000	28, 413	
Spiceddo	95,000	13, 350	
Smokeddo	302, 280	26, 934	
Lake trout, smokeddo	198, 281	42, 978	
Salmon, smoked do	85, 760	14, 937	
Tullibee, smokeddo	78, 235	15, 272	
Whitefish, smokeddo	81, 449	16, 640	
Miscellaneous 1	(2)	36, 972	
Total		298, 487	

FISHERMEN'S MANUFACTURED PRODUCTS

[Number of persons engaged, 153]

Chubs, smoked pounds Lake herring, salted do Lake trout, smoked do	20,000 1,444,497 2,500	\$4, 400 39, 228 550
Total	1, 466, 997	44, 178

¹ Includes pickled lake herring and lake trout; salted lake trout and whitefish; fresh fillets of blue pike, jack pike, sauger, and yellow perch; canned whitefish caviar; poultry feed and lime from mussel shells; and novelties and button blanks from fresh-water mussel shells.

² Data not available.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 153 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Industries related to the lake fisheries of Minnesota, 1930 TRANSPORTING

Item	Roseau County	St. Louis County	Total
Persons engaged on vessels	Number 6	Number 20	Number 26
Vessels: Steam— 31 to 40 tons	l-Kengki	. 1	1
Total		2 107	107
Motor— 5 to 10 tons	1 1		1 1
TotalNet tonnage	2 69		2 69
Total vessels	2 69	107	4 176

Industries related to the lake fisheries of Minnesota, 1930—Continued WHOLESALE AND MANUFACTURING

OPERATING UNITS, SALARIES, AND WAGES

Item	Cook, Lake, Lake of the Woods, Koochiching and Roseau Counties	St. Louis	Total
Establishments Persons engaged: Proprietors Salaried employees Wage earners—	7	14	21
	6	15	21
	6	21	27
Average for season	33	107	140
Average for year	15	88	103
Paid to salaried employeesPaid to wage earners	\$9,760	\$48, 760	\$58, 520
	17,672	97, 651	115, 323
Total salaries and wages	27, 432	146, 411	173, 843

PRODUCTS MANUFACTURED

Item	Quantity	Value
Tullibee, smokedpounds Unclassified products:	59, 000	\$6,000
Salted 1	448, 200 171, 400	44, 038 52, 252
Total	678, 600	102, 290

FISHERMEN'S MANUFACTURED PRODUCTS [Number of persons engaged, 212]

Lake herring: Salted pounds Smoked do Lake trout, smoked do Whitefish, smoked do	2, 195, 500 102, 000 8, 500 1, 200	\$65, 873 10, 200 2, 550 120
Total	2, 307, 200	78, 743

Includes salted Alaska herring, alewives, lake herring, mackerel, salmon, lake trout, and sablefish.
 Includes smoked ciscoes, lake herring, salmon fillets, and lake herring fillets.

Note.—Some of the above products may have been manufactured from fishery products imported from another State or country; therefore, they can not be correlated directly with the catch within the State. Of the total number of persons engaged in the preparation of fishermen's manufactured products, 212 have also been included as fishermen. This fact should be considered when computing the total number of persons in the fishery industries exclusive of duplication.

Mussel-shell industry of the lake fisheries, 1930 1 OPERATING UNITS

	Lake Michigan								
Item	St. Joseph River			Grand River	Kalama- zoo River	Muske- gon River	Elkhart River		
	Michigan	Indiana	Total	Michigan	Michigan	Michigan	Indiana		
Fishermen—On boats and shore, casual Boats:	Number 250	Number 30	Number 280	Number 306	Number 50	Number 140	Number 12		
MotorOther	80 170	10 20	90 190	164 149	20 30	70 70	12		
Apparatus: Crowfoot bars Tongs	80	10	90	137 12	20		12		
Forks	230	30	260	98 176	25 50	140	12		

¹ The mussel-shell industry of streams tributary to Lakes Huron and Erie, which was inconsiderable, has been included with the St. Joseph River tributary to Lake Michigan, State of Michigan to avoid disclosure of private enterprise.

Mussel-shell industry of the lake fisheries, 1930—Continued OPERATING UNITS—Continued

Item	Lake Michigan—Continued								
	Pigeon River	Fox River Wisconsin	Grand River Wisconsin	Т	Grand total				
	Indiana			Michigan	Indiana	Wisconsin	total		
Fishermen—On boats and shore: Regular	Number 18	Number 4 12	Number 5 6	Number 746	Number 60	Number 9 18	Number 9		
Total	18	16	11	746	60	27	833		
Boats: Motor Other Apparatus: Crowfoot bars Tongs Forks	8 10 8	12 4 12	5 6 6	334 419 237 12 123	30 30 30	17 10 18	381 459 285 12 136		
Picks	18	0	0	596	60	10	65		

CATCH

		(CATCH				16.61			
	S)EULO		La saler	Lake M	Iichigan	mi fenj				
Gear and product		St. Joseph River								
Gear and product	Mich	igan	Indi	Indiana		Total		Grand River, Mich.		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value		
By crowfoot bars: Mussel shells Pearls and slugs Mussel shells Pearls and slugs Nussel shells Pearls and slugs By forks:		\$31, 518 1, 500	180, 000	\$9, 750 450	792, 000	\$41, 268 1, 950	1, 947, 400	\$40, 208 4, 480 328		
Mussel shells Pearls and slugs							278, 200	5, 744 640		
By picks: Mussel shells Pearls and slugs		21, 502 1, 000	120, 000	6, 500 300	521, 000	28, 002 1, 300	679, 500	14, 032 1, 280		
Total	1, 013, 000	55, 520	300, 000	17, 000	1, 313, 000	72, 520	2, 921, 100	66, 74		
Gear and product	Kalamazo	oo River.	Lake		an—Contin		Pigeon	River.		
	Mi	ch.	Mic	eh.	In	d.	Inc	1.		
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Vaule		
By crowfoot bars: Mussel shells Pearls and slugs By forks:	224, 000	\$8, 120 464			54, 000	\$2, 025 112	50, 000	\$2, 125 125		
Mussel shells Pearls and slugs By picks:		1, 015	400,000	*11 070	10,000		50.000			
Mussel shells Pearls and slugs	28, 000	1, 015 58	492, 000	\$11, 070 1, 330	18, 000	675 38	50, 000	2, 128 128		
Total	280, 000	10, 730	492, 000	12, 400	72, 000	2, 850	100, 000	4, 500		

Mussel-shell industry of the lake fisheries, 1930—Continued CATCH—Continued

	Lake Michigan—Continued							
Gear and product	Fox R Wi		Grand Wi		Total, all rivers— Michigan			
	Pounds	Value	Pounds	Value	Pounds	Value		
By crowfoot bars: Mussel shells Pearls and slugs	36, 784	\$1, 143 190	34, 134	\$523 87	2, 783, 400	\$79, 864 6, 444		
By tongs: Mussel shells Pearls and slugs					16, 000	328 35		
By forks: Mussel shells Pearls and slugs	18, 391	571 95	17, 066	261 42	306, 200	6, 759 698		
By picks: Mussel shells Pearls and slugs					1, 600, 500	47, 619 3, 668		
Total	55, 175	1, 999	51, 200	913	4, 706, 100	145, 397		

*	Lake Michigan—Continued								
	Tot	al, all rive							
Gear and product	Ind	iana	Wisco	onsin	Grand total				
,	Pounds	Value	Pounds	Value	Pounds	Value			
By crowfoot bars: Mussel shells Pearls and slugs	284, 000	\$13, 900 687	70, 918	\$1, 666 277	3, 138, 318	\$95, 412 7, 408			
By tongs: Mussel shells Pearls and slugs					16, 000	328 35			
By forks: Mussel shells Pearls and slugs			35, 457	832 137	341, 657	7, 591 835			
By picks: Mussel shells Pearls and slugs	188, 000	9, 300 463			1, 788, 500	56, 919 4, 131			
Total	472, 000	24, 350	106, 375	2, 912	5, 284, 475	172, 659			

BUTTON BLANK MANUFACTURING

Item	Number	Value
Establishments	4	
Persons engaged: Proprietors Salaried employees	4 1	
Wage earners— Average for season————————————————————————————————————	50 35	
Paid to salaried employees.		\$2, 150 32, 455
Total salaries and wages		34, 605
Products—Button blanks, gross—By-products—Miscellaneous————————————————————————————————————	176, 740	36, 812 424

FISHERIES OF THE MISSISSIPPI RIVER AND TRIBUTARIES

Catch of the fisheries of the Mississippi River and tributaries, 1922

Species	Pounds	Value
Black bass	73, 554	\$10, 874
Bowfin	190, 073	6, 078
Buffalofish	17, 267, 177	1, 013, 692
Carp.	18, 338, 371	872, 128
Catfish and bullheads	8, 092, 690	713, 461
Crappie	512, 423	49, 338
Drum, fresh-water, or sheepshead	5, 260, 892	290, 480
Eels	16, 060	1, 057
Mooneye	3, 450	166
Paddlefish or spoonbill cat	1, 398, 991	132, 548
Paddlefish caviar	12, 398	29, 546
Pike and pickerel	20, 100	1,850
Pike perch (sauger)	4, 745	768
Pike perch (wall-eyed)	24, 650	3, 750
Quillback or "American carp"	765, 389	59, 221
Rock bass.	2, 738	312
Sturgeon, lake	10, 953	1, 369
Sturgeon, shovelnose	227, 365	19, 323
Sturgeon, shovelnose, caviar		2, 615
	1, 800	764
Sturgeon, shovelnose, eggs	699, 539	63, 028
		24, 958
White bass	374, 533	
	64, 624	5, 500
Yellow bass	7,500	600
Yellow perch	22, 250	1, 904
Other fish	73, 275	4, 917
Shrimp	147, 482	14, 570
Crawfish	7, 890	759
Frogs	231, 761	20, 410
Turtles	96, 743	2,772
Alligator hides	15, 616	2, 673
Mussel shells	51, 768, 173	1, 050, 592
Pearls		46, 124
Blugs		55, 380
(D-4-1	105 500 504	4 500 503
Total	105, 733, 734	4, 503, 52

FISHERIES OF ALASKA 13

During 1931 the fisheries of Alaska employed 22,577 persons, of whom 8,914 were fishermen, 11,995 were engaged in the wholesale and manufacturing industries, and 1,668 in transporting fishery products. The catch in round weight amounted to 598,124,566 pounds, valued at \$10,043,366, consisting of 467,664,391 pounds of salmon, valued at \$7,757,966; 128,290,715 pounds of other fish, valued at \$2,164,986; and 2,169,460 pounds of shellfish, valued at \$120,414.

With reference to the figures published in this section the reader should refer to that section in the latter part of the book entitled "Statistical survey procedure," which gives in detail methods for collecting statistics, compilation practices, and conversion factors. This is most necessary for a complete understanding of the statistics presented herewith.

Fisheries of Alaska, 1931

SUMMARY: BY DISTRICTS

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
PERSONS ENGAGED				
n fishingnumber	4, 183	1, 973	2,758	8, 91
in transporting do do wholesale and manufacturing industries	591	584	493	1,66
n wholesale and manufacturing industries number	4, 599	3, 396	4,000	11, 99
Total	9, 373	5, 953	7, 251	22, 57
Total	9, 515	0, 800	1, 201	22,01
CRAFT EMPLOYED				
Vessels fishingnumber	525	48	9	58
Boats fishingdo	2, 138 172	1, 433	1, 389	4, 96
Vessels transportingdo	334	312	190	83
Total	3, 169	1, 933	1, 675	6, 77
Fish: CATCH			1707-250000	
Salmonpounds	204, 452, 280	137, 905, 111	125, 307, 000 \$2, 658, 609	467, 664, 39
Otherpounds	\$2, 879, 412 104, 835, 823	\$2, 219, 945 17, 390, 925	6, 063, 967	\$7, 757, 96 128, 290, 71
value	\$1, 924, 822	17, 390, 925 \$187, 840	\$52, 324	\$2, 164, 98
Shellfishpounds	1, 010, 333	1, 159, 127		2, 169, 46
value	\$49, 629	\$70, 785		\$120, 41
Totalpoundsvalue	310, 298, 436 \$4, 853, 863	156, 455, 163 \$2, 478, 570	131, 370, 967 \$2, 710, 933	598, 124, 56 \$10, 043, 36
WHOLESALE AND MANUFACTURING	\$1,000,000	42, 170, 010	92,110,000	\$10,010,00
		00		90
Establishmentsnumber	87	88	51	22
PRODUCTS AS PREPARED FOR MARKET		C-RAINE		
Salmonpounds	133, 369, 092	81, 883, 462	58, 834, 928	274, 087, 48
Yalue Herringpounds	\$11, 291, 812 36, 673, 926	\$8, 705, 670 7, 624, 417	\$10, 425, 919 3, 853, 225	\$30, 423, 40 48, 151, 56
value	\$747,673	\$254, 863	\$225, 360	\$1, 227, 89
Halibut pounds value value	19, 018, 986 \$1, 277, 860	1, 277, 247	129, 400 \$8, 673	20, 425, 63 \$1, 352, 68
Codpounds	\$1, 211, 000	\$66, 154 324, 898	90,000	414, 89
ralua		\$19, 150	\$4,500	\$23,65
Proutpounds	60, 194	27, 336 \$2, 841		87, 53 \$7, 20
Prout pounds value sablefish value sablefish value sablefish value pounds value pounds sablefish sablefish s	279, 345	\$2, 541		279, 34
value	\$13, 286			\$13, 28
Smeltpounds		1, 340		1, 34
		\$80		\$8 275, 17
Flounder pounds value value	\$6, 887			\$6, 88
Rockfishpounds	22 919			22, 91
'Lingcod''valuepounds_	\$677 526 \$16			\$67 52
value	\$16			\$1
Clampounds_	30, 789	523, 527		554, 31
Shrimppounds	\$8, 939	\$303, 518		\$312, 45
	458, 650 \$184, 197	\$250		460, 05 \$184, 44
Orabpounds	60, 311	60, 612		120, 92
value	\$22,004	\$20,062		\$42,06
Total pounds value	190, 249, 910 \$13, 557, 712	91, 724, 239 \$9, 372, 588	62, 907, 553 \$10, 664, 452	344, 881, 70 \$33, 594, 75
OPERATING	UNITS: BY	DISTRICTS		
			1	
Steb com on		4 000	0	
	4, 183	1, 973	2, 758	8, 91
Vessels, fishing, motordodo	525	48	9	58
Fishermen number do do Net tonnage do Boats, fishing:				8, 91 58 8, 41 1, 31

Fisheries of Alaska, 1931 - Continued

OPERATING UNITS: By DISTRICTS-Continued

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
Apparatus:				
Trapsnumber	274	202	2	478
Purse seinesdo	325	138	5	468
Yardsdo	114, 710	29, 996	2, 146	146, 852
Haul seinesdo	3	137	3	143
Yardsdo	600	31, 268	410	32, 278
Gill netsdo	315	1,828	2, 453	4, 596
Yardsdo	36, 520	165, 196	326, 534	528, 250
Beam trawlsdo	9	1		10
Wheels do do			259	259
Lines:		LANGE TO THE		
Hand lines (cod fishery)do		61	5	66
Trawl lines (cod fishery)do		36		36
Troll lines (salmon fishery)do	3, 628	************		3,628
Skates of lines (halibut fishery)do	3, 838			3, 838
Crab potsdo	320	130		450
Herring poundsdo	2	12	1	15
Herring-pound seinesdo	14	5	2	21

CATCH: BY DISTRICTS

[Estimated round weight and value to fishermen]

FISH					
Salmon:					
Blueback, red, or sockeye	pounds	12, 761, 595	40, 116, 195	109, 173, 687	162, 051, 477
	value		\$1,055,584	\$2, 563, 855	\$3, 995, 430
Chinook or king	pounds	9, 203, 900	2, 153, 320	2, 248, 200	13, 605, 420
	value		\$71,060	\$23,609	\$345, 384
Chum or keta	pounds	25, 656, 714	19, 798, 830	13, 875, 336	59, 330, 880
	value	\$230, 924	\$155, 087	\$70,988	\$456, 999
Humpback or pink	pounds.	146, 461, 180	68, 869, 990	25	215, 331, 195
	value	\$1,809,304	\$809, 899		\$2,619,203
Silver or coho	pounds		6, 966, 776	9,752	17, 345, 419
	value		\$128, 315	\$157	\$340, 950
Herring	nounds	82, 897, 978	15, 048, 720	5, 620, 190	103, 566, 888
den mg	value		\$112, 865	\$42, 151	\$776, 751
Halibut		21, 132, 207	1, 419, 163	143, 777	
Hamout	pounds	\$1, 277, 860		20, 777	22, 695, 147
Cod	value	\$1, 211, 800	\$66, 154	\$8,673	\$1, 352, 687
C0d	pounds		886, 862	300, 000	1, 186, 862
Th	value		\$5,900	\$1,500	\$7,400
Trout:		00.010		plant suggesting	
Dolly Varden			34, 170		70, 989
	value	\$2,639			\$5, 480
Steelhead		39, 536 \$1, 722		*******	39, 536
	value	\$1,722			\$1,722
Sablefish	pounds	410, 801			
Smelt	value	\$13, 286			\$13, 286
Smelt	pounds	**********			2,010
	value		\$80		\$80
Flounders	pounds	282, 413			282, 413
	value	\$6, 887			\$6,887
Rockfishes	pounds	35, 260			35, 260
	value	\$677			\$677
"Lingcod"	pounds	809			809
	value				\$16
	raido	410	***********		\$10
Total	nounds	309, 288, 103	155, 296, 036	131, 370, 967	595, 955, 106
		\$4, 804, 234	\$2, 407, 785	\$2, 710, 933	\$9, 922, 952
	value	\$1,001,201	φε, 101, 100	φ2, 110, 550	90, 022, 002
SHELLFISH					
Crabs	nounda	110 500	110, 586		227, 168
VIAVO	value	\$11,000	\$10,031		
Shrimp	pounds.	832, 563		*********	\$21,033
Surimp	value	802, 000	1,727	**********	834, 290
Clams:	value	\$36, 839	\$50		\$36, 889
Dutter		01 100		or referring to the	AT 100
Butter	pounds	61, 188			61, 188
	value	\$1,788		**********	\$1,788
Razor	pounds		1, 046, 814		1, 046, 814
	value		\$60, 704	**********	\$60,704
m 1					
Total		1, 010, 333	1, 159, 127		2, 169, 460
	value	\$49,629	\$70, 785		\$120, 414
	70 1				
Grand total		310, 298, 436	156, 455, 163	131, 370, 967	598, 124, 566
	value	\$4, 853, 863	\$2, 478, 570	\$2,710,933	\$10,043,366

Industries related to the fisheries of Alaska, 1931

TRANSPORTING

Item	Southeast Alaska	Central Alaska	Western Alaska	Total
Persons engagednumber Vessels transporting:do	591	584	493	1,668
Net tonnage do Motor do Net tonnage do Scows, houseboats, pile drivers, etc.	5, 141 334	140 3, 955 312	30, 560 70 3, 520 190	30, 560 382 12, 616 83

WHOLESALE AND MANUFACTURING

Persons engagednumber	4, 599	3,396	4,000	11, 995
Establishments: Handling fresh and frozen fishdo Curing fishdo Canning fishdo Manufacturing by-productsdo	39 31 42 7	7 29 55 8	1 26 25	47 86 122 15
Total, exclusive of duplicationdo	87	88	51	226

PRODUCTS AS PREPARED FOR MARKET

FRESH					A STATE OF
Salmon (all species)	pounds	768, 619			768, 619
	value	\$55, 918			\$55, 918
Salmon eggs (for caviar)				4, 100	4, 100
				\$500	\$500
Herring (for balt)			946, 762	29, 250	2, 886, 112
	value		\$12, 469	\$351	\$39, 583
Halibut			117,070	12, 588	13, 811, 280
	value		\$8,945	\$496	\$951, 579
Trout			21, 400	***********	55, 952
	value		\$2, 422		\$5, 433
Sablefish			*********		1, 110
	value	\$30			\$30
Smelt					1,340
	value		\$80	***********	\$80
Flounders					210,000
	value	\$5, 250	***********		\$5, 250
Rockfishes	pounds	4, 451			4, 451
	value	\$134			\$134
Crabs:		1			
Meat			43, 686		99, 957
	value	\$21,600	\$17, 478		\$39,078
Whole in shell	pounds	4,040	10, 590		14, 630
	value	\$404	\$480		\$884
Clams, whole in shell					240
	value		\$50		\$50
Shrimp:					
Meat	pounds	457, 005	400		457, 405
	value	\$183,950	\$100		\$184,050
Whole in shell			1,000		2,645
	value	\$247	\$150		\$397
Total			1, 142, 488	45, 938	18, 317, 841
	value	\$1, 239, 442	\$42, 177	\$1,347	\$1, 282, 966
FROZEN		LI SU LUNC		The said	
Salmon (all species)	pounds	5, 969, 299	22, 800		5, 992, 099
	value	\$392.018			\$392, 662
Salmon fillets	pounds	190, 818	4011	***********	190, 818
	value			***********	\$19, 153
Herring (for bait)	pounds	4, 675, 060	46, 625		4, 721, 685
	value	\$36, 566	\$746		\$37, 312
Herring (for food)	pounds	400,000	44.40	236, 500	236, 500
	value			\$9,460	\$9,460
Halibut	pounds	5, 284, 947	1, 157, 737	116, 812	6, 559, 496
	value	\$331,007	\$57,019	\$8, 177	\$396, 203
Halibut fillets	pounds	52, 417		404 211	52, 417
	value	\$4,718			\$4,718
Halibut cheeks	pounds	4-1140			2,032
					\$102

Industries related to the fisheries of Alaska, 1931—Continued PRODUCTS AS PREPARED FOR MARKET—Continued

Southeast Alaska	Central Alaska	Western Alaska	Total
		icium en	
21, 786	5, 936		27, 722
278, 235	\$419		\$1, 157 278, 235
\$13, 256			278, 235 \$13, 256 65, 172
\$1,637			\$1,637
18, 468 \$543			18, 468 \$543
526			526
-			\$16
	1, 235, 130 \$58, 930	353, 312 \$17, 637	18, 145, 170 \$876, 219
ELTAPOLIC HON			
3 243 200	16 800	60,800	3, 320, 800
\$626, 291	\$1,425	\$6,037	\$633, 753
77, 800 \$6, 121	354, 450 \$31, 161	708, 950 \$66, 226	1, 141, 200 \$103, 508
7,600	9, 450	1, 265, 126	1, 282, 176 \$78, 260
\$380	\$945	\$76, 935	\$78, 260
1 759 475	2 960 350	2 201 225	0 011 050
\$107, 097	\$167, 217	\$199, 493	8, 011, 050 \$473, 807 160, 500
200 \$15	29, 500 \$2, 006	130, 800	160, 500
		92 400	\$10, 811 92, 400 \$4, 266
2,000		\$4, 266	\$4, 266 2, 000
\$250		72 050	\$250
		\$3,000	73, 050 \$3, 000
	58, 800	90,000	148, 800
	\$2,702	\$4,500	\$7, 202
	\$11, 930		119, 300 \$11, 930
	146, 398		146, 398
	400		\$4, 471 400
400	\$47		\$47 400
\$36			\$36
5, 090, 675	3, 695, 448	5, 712, 351	14, 498, 474
\$740, 190	\$221, 904	\$369, 247	\$1, 331, 341
		TABLE .	
7, 098, 960	21, 079, 344	53, 147, 040	81, 325, 344
- \$1,471,578 715,008	\$4, 116, 919 1 324 752	\$9, 997, 591	\$15, 586, 088
\$134, 825	\$276, 690	\$75, 872	2, 489, 616 \$487, 387
\$891,375	9, 266, 544 \$607, 108	3, 194, 640 \$202, 202	25, 625, 088 \$1, 700, 685 141, 785, 280
96 645 916	45, 140, 064		141, 785, 280
4, 245, 840	3, 903, 888	4,416	\$10, 215, 498 8, 154, 144
\$616, 541 3, 456	\$489, 537	\$556	\$1, 106, 634
\$576			3, 456 \$576
- \$999	\$1 035		10, 968 \$2, 034
30, 789	523, 287 \$303, 469		554 076
	6, 336		\$312, 407 6, 336 \$2, 104
			\$2, 104
	81, 249, 855 \$8, 959, 556	56, 795, 952 \$10, 276, 221	259, 954, 308 \$29, 413, 413
	21, 786	21, 786	21, 786

Industries related to the fisheries of Alaska, 1931—Continued PRODUCTS AS PREPARED FOR MARKET—Continued

Item		Southeast Alaska	Central Alaska	Western Alaska	Total
BY-PRODUCTS			1	ina -/ jaioine	
Fertilizer, salmon	pounds.	1, 020, 000	565, 288		1, 585, 288
Meal, herring	value pounds value	\$20, 040 14, 000, 276 \$242, 736	\$9, 054 1, 822, 700 \$30, 089		\$29, 094 15, 822, 976 \$272, 825
Oil:	value	φ242, 130	\$50,009		φ212, C20
Salmon	pounds value	217, 500 \$3, 770	194, 850 \$8, 542		412, 350 \$12, 312
Herring	pounds value	14, 326, 815 \$334, 246	1, 818, 480 \$42, 336		16, 145, 295 \$376, 582
Total	pounds value	29, 564, 591 \$600, 792	4, 401, 318 \$90, 021		33, 965, 909 \$690, 813
Grand total	pounds value	190, 249, 910 \$13, 557, 712	91, 724, 239 \$9, 372, 588	62, 907, 553 \$10, 664, 452	344, 881, 702 \$33, 594, 752

SUPPLEMENTARY TABLE SHOWING THE PACK OF CANNED PRODUCTS IN "STAND-ARD CASES" 1

Salmon: Blueback, red or sockeye	cases		439, 153	1, 107, 230	1, 694, 278
	value	\$1, 471, 578	\$4, 116, 919	\$9, 997, 591	\$15, 586, 088
Chinook or king		14, 896	27, 599	9, 372	51, 867
	value	\$134, 825	\$276, 690	\$75, 872	
Chum or keta		274, 248	193, 053	66, 555	533, 856
or and the second	value	\$891, 375	\$607, 108	\$202, 202	\$1,700,685
Humpback or pink		2, 013, 442	940, 418		2, 953, 860
	value	\$7, 052, 803	\$3, 162, 695		\$10, 215, 498
Silver or coho	cases	88, 455	81, 331	92	169, 878
	value	\$616, 541	\$489, 537	\$556	\$1, 106, 634
Frout		72			72
	value	\$576 _			\$576
Miscellaneous fish	cases	111	118		229
	value	\$999	\$1,035		\$2,034
Clams		2, 039	34, 886		36, 925
	value	\$8, 939	\$303, 468		\$312, 407
Crabs			132		132
	value		\$2, 104		\$2, 104
Total	cases	2, 541, 158	1, 716, 690	1, 183, 249	5, 441, 097
	value	\$10, 177, 636	\$8, 959, 556	\$10, 276, 221	\$29, 413, 413

SUPPLEMENTARY TABLE SHOWING THE OUTPUT OF BY-PRODUCTS IN TONS AND GALLONS

Item	Southeast Alaska	Central Alaska	Total
Fertilizer, salmon tons-yalue.	510	283	793
Meal, herring value value	\$20, 040 7, 000 \$242, 736	\$9, 054 911 \$30, 089	\$29, 094 7, 911 \$272, 825
Oil: Salmongallons	29,000	25, 980	54, 980
Yalue Herring	\$3,770 1,910,242 \$334,246	\$8, 542 242, 464 \$42, 336	\$12, 312 2, 152, 706 \$376, 582
Totalvalue_	\$600, 792	\$90, 021	\$690, 813

¹ The pack of salmon, trout, miscellaneous fish, and crabs has been converted to "standard cases" of 48 one-pound cans, and clams to "standard cases" of 48 No. 1 five-ounce cans.

Note.—Halibut products include all taken by the Alaska fleet, some of which were landed at other than Alaskan ports. The total landins in Alaska in 1931 amounted to 9,626,118 pounds, valued at \$608,480, as compared with 11,408,984 pounds, valued at \$863,089, in 1930.

FISHERIES OF PUERTO RICO

A general survey of the fisheries of Puerto Rico was made in 1899, immediately after the American occupation of that island, but no detailed data on catch, fishermen, and gear employed were secured. The survey made in 1931 was the first statistical and marketing sur-

vey made of the fisheries of Puerto Rico.

During 1930, the fisheries of Puerto Rico employed 1,403 fishermen. Their catch amounted to 3,080,100 pounds of fishery products valued at \$207,085 to the fishermen. In making the catch the fishermen used 9 motor boats, 240 sailboats, and 462 rowboats. The gear employed consisted of 91 haul seines, 285 gill nets, 14 trammel nets, 366 cast nets, 31 dip nets, 9 hoop nets, 15 weirs (corrals), 912 hand lines, 133 trawl lines, 334 troll lines, and 4,239 fish pots.

As the fishermen keep no records of their operations, it was impossible to separate the catch by species. In general it may be stated that about 50 per cent of the catch is taken by fish pots, 30 per cent

by nets, and 20 per cent by lines or other apparatus.

Fisheries of Puerto Rico, 1930

Persons engaged, fishermenBoats:	1, 403
Motor	9
Sail	240
Row	462
Ttow	402
Apparatus:	91
Haul seines	
Length, yards	19, 820
Gill nets	285
Square yards	55, 835
Trammel nets	14
Square yards	6, 940
Cast nets	366
Dip nets	31
Hoop nets	9
Fish pots	4, 239
Weirs or corrals	15
Lines—	
Hand	912
Hooks	2, 501
Trawl	133
Hooks	18, 087
Troll	334
Hooks	334
Forks (used in taking langosta or spiny lobster)	46
Catch—	
Pounds	3, 080, 100
Value	\$207, 085

COMMON AND SCIENTIFIC NAMES OF FISHERY PRODUCTS

In order to prevent misunderstanding from the use of common names employed in the tables and discussions, the following list of common and scientific names is given:

Common and scientific names of the commercial fishery products caught in the United States and Alaska

Common name as shown in bureau reports	Other common names	Scientific names
Albacore	Longfin tuna	Germo alalunga.
Alewives	Branch herring, wall-eyed or big-eyed	Pomolobus pseudoharengus.
Amberjack	herring. Blueback, glut herring	Pomolobus xstivalis. Seriola species.
	A CONTRACTOR OF THE PROPERTY O	(Engraulis mordax.
Anchovies		Anchoviella delicatissima. Anchoviella compressa.
Angelfish		Pomacanthus arcuatus. Angelichthys isabelita.
Barracuda		Sphyræna argentea (Pacific coast). Sphyræna barracuda (Atlantic coast).
Black bass	(Smallmouth bass	Micropterus dolomieu. Micropterus salmoides.
Bluefish	Tailor	Pomatomus saltatrix.
Blue pike	Tailor Pike perch, blue pickerel (Canada) Runner	Stizostedion glaucum.
		Caranz crysos.
Bonito		Sarda sarda. Sarda chiliensis.
Bowfin		Amia calva.
Bullhead	Della-fish	Ameiurus species.
Burbot	Dollarfish Lawyer, ling Coalfish, crab eater, cobia	Poronotus triacanthus, Lota maculosa,
Cabio	Coalfish, crab eater, cobia	Rachycentron canadum.
Cabrilla	Rock bass	Parata brax claintatus.
Carp (German)		Cyprinus carpio.
Catfish		Siluridæ species.
Cero		Scomberomonus regalis.
Chubs	blackfin in United States.	All Leucichthys except artedi (in Great Lakes).
Cigarfish		Decapterus species.
Cisco		(Cadas managements (Desific coast)
Cod		Gadus callarias (Atlantic coast).
Cowfish	Trunkfish, chapin	Ostracion species.
Crappie	White crappie Black crappie, strawberry bass, calico bass.	Pomoxis annularis. Pomoxis sparoides.
Crevalle	Particular and the second seco	Caranx hippos.
Croaker	Crocus, hardhead	Micropogon undulatus.
Cunner	Chogset, blue perch, bergall	Tautogolabrus adspersus.
Cusk Dolly Varden trout	Salmon trout, bull trout	Salvelinus parkei.
Dolphin		Coryphaena hippurus.
Drum, fresh-water, or sheepshead.		
Drum, black		Pogonias cromis.
Drum, red	Channel bass, rednsh, spotted bass	Scixnops ocellatus. [Anguilla rostrata.
T2 - 1 -		Leptocephalus conger.
Eels		Gymnothorax mordax.
	a	Gymnothorax moringua.
Eulachon Flounders	Dabs, blackbacks, lemon sole, winter	Thaleichthys pacificus. Pleuronectidae species.
Flyingfish	flounder, summer flounder.	Cysilurus californicus.
Frigate mackerel		Auris thazard
		(Tylosurus species,
		Tylosurus species. Ablennes species.
Gizzard shad	Nanny shad, mud shad	Dorosoma cepeaianum.
Goldesh	Sand perch	Hiodon species.
Goosefish	Sand perch	Carassius auratus. Lophius piscatorius.
Gooding	(Dogfish	Squalus sucklii (Pacific coast).
Grayfish	Spiny dog	Squalus acanthias.
-	Smooth dog	Galeohinus lævis.
Greenfish	Rudderfish	Girella nigricans.
Groupers		Epinephelus species. Mycteroperca species.
Grunts	Margatefish, sailors choice (Key West).	Hæmulon species.
Haddock		Melanogrammus aegilfinus.
Hagfish	Slimefish	Myxine glutinosa.
Hake	Squirrel hake, Boston hake, ling,	Urophycis species (Atlantic coast).
	Merluccio	Merlucius productus (Pacific coast).
Halfmoon		Medialuna californiensis.
Halibut		Hippoglossus hippoglossus.
		Paralichthys californicus.

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in bureau reports	Other common names	Scientific names		
Hardhead		Orthodon microlepidotus.		
Harvestfish	Starfish, pappyfish	Peprilus alepidotus.		
Herring		(Clupea harengus (Atlantic coast).		
Hickory shad	Tailor shad	(Clupea pallasii (Pacific coast). Pomolobus mediocris.		
log-choker	A direct Shares	Achirus fasciatus.		
logfish	Capitaine, perro perro	Lachnolaimus maximus (Florida).		
Horse mackerel		Trachurus symmetricus.		
lewfish	***************************************	Promicrops itaiara. Scomberomorus cavalla.		
Kingfish (California)	Little roncador, croaker	Genyonemus lineatus.		
King whiting	Northern whiting, kingfish, seamink	Menticirrhus species.		
LadyfishLake herring	Bonefish, bananafish	Albula vulpes. Leucichthys artedi (Great Lakes, ex cept Erie).		
Lake trout		Cristivomer namaycush.		
Launce	Sand eel, lant, sand launce	Ammodytes americanus.		
'Lingcod''	Cultus cod, blue cod, buffalo cod, ling	Ophiodon elongatus.		
Mackerel		(Scomber scombrus (Atlantic coast).		
Menhaden	Mossbunker, pogy	Scomber diego (Pacific coast). Brevoortia tyrannus.		
Minnows		Cyprinidae species.		
Mojarro		Eucinostomus species.		
Mooneye	Toothed herring	Hiodon species.		
Moonfish		Vomer setipinnis. Selene romer.		
Mullet	Jumping mullet	Mugil species.		
Mummichog	Mayfish, killifish	Fundulus species.		
Muttonfish				
Paddlefish Parrotfish	Spoonbill cat			
	(White perch	Morone americana		
Perch, white	Blue perch, surf-fishes	Embiotocidæ species (Pacific coast).		
Perch, yellow	Winged perch Great pompano	Perca flarescens.		
Permit	Great pompano	Trachinotus goodei.		
Pickerel		Esox reticulatus. Esox americanus.		
Pigfish		Orthopristis chrysopterus.		
Pike (jacks)	Great Lakes pike, pickerel			
Pilchard	Sardine	Sardinia carulea.		
Pilotfish	*******************************	Naucrates ductor. Seriole zonata.		
Pinfish	Bream, salt-water bream	Landon rhomboides.		
Pollock				
Pompano		(Trachinotus species (Atlantic coast)		
Porgies	Porgee	(Palometa similimus (Pacific coast). Calamus species.		
Porkfish	Sisi	Anisotremus virginicus.		
Quillback		Carpiodes species.		
Roach	Shiner	Notemigonus crysoleucas.		
Rock bass	Redeye, goggleeye	Ambloplites rupestris (Mississipp River and tributaries).		
Rockfishes	Rock cod	Sebestodes species (Pacific coast).		
Rosefish		Sebastes marinus.		
Sablefish	Black cod	Anaplopoma fimbria.		
Atlantic Pacific—		Salmo salar (Atlantic coast).		
Blueback, red or		Oncorhynchus nerka.		
sockeye. Chinook or king	Tyee, Columbia, Sacramento, spring.	Oncorhynchus tschawytscha.		
Chum or keta	Dog salmon	Oncorhynchus keta,		
Humpback or pink.		Oncorhynchus gorbuscha.		
Silver or coho		Oncorhynchus kisutch.		
Sauger pike	Sand pike	Stizostedion canadense.		
Sawfish	Sand pike	Pristis pectinatus.		
Seamp		Mycteroperca phenax.		
Seulpin	Davies on warms followedd	Cottidæ species.		
Scup	Paugy or porgy, fair maid. Black jewfish or black sea bass	Stereolepis gigas (Pacific coast.)		
Sea bass	Black sea bass	Centropristes striatus (Atlantic coast)		
Sea bass, white (California)		Cynoscion nobilis (Pacific coast).		
Sea gar	Needlefish, billfish, houndfish	Tylosurus species.		
Sea robin	American shad	Prionotus species. Alosa sapidissima.		
	American snad	Carcharodon species; Mustelus spe		
Sharks				

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in bureau reports	Other common names	Scientific names
Sheepshead (salt-water)		Archosargus probatocephalus.
Sheepshead (fresh-water)	Drum, fresh-water	
Sheepshead (Pacific coast)	Redfish, flat head	
Silversides		
Silver perch	Sand perch	Bairdiella chrysura.
Skates	Dana Polon	Raja species.
Skipjack	Striped tuna	Euthynnus pelamys.
Skipper	"Billfish"	Scomberesox saurus.
		(Osmerus mordas (Atlantic coast).
Smelt		Argentinide species (Pacific coast).
Snapper, Mangrove	Gray snapper	Lutianus griseus.
Snapper, red		
Snook	Robalo, sergeantfish	Centropomus undecimalis.
Sole	Trobuso, bergettining	
0010		coast).
Spadefish		Chaetodipterus faber.
Spanish mackeral		Scomberomorus maculatus.
Splittail		
Spot.		Leiostomus xanthurus.
Squawfish		
Squeteague (gray)		Cynoscion regalis.
Squeteague (spotted)	Spotted weakfish, spotted trout	Cynoscion nebulosus.
Squirrelfish	Spotted weakish, spotted trodt	Diplectrum formosum.
Steelhead trout	Salmon trout	Salmo gairdneri.
Stingray	Samon trout	Dasyatis species.
Striped bass	Rockfish, rock	Roccus lineatus.
Sturgeon	Trockholi, Took	
Sturgeon, shovelnose		
Sucker	Fresh-water mullet	Catostomidæ species.
	Tresh-water munet	Lepomis species.
Sunfish		Centrarchidæ species.
Surf fishes		Embiotocidæ species.
Swellfish	Puffer, swell toad, balloonfish, globe-	Spheroides maculatus.
Sweimsii	fish.	Spheroides maculatus.
Swordfish	шы.	Xiphias gladius.
		Hepatus species.
Tarpon	Silver king	Tarnon atlantique
Tautog	Blackfish, oysterfish	Tautoga onitis.
Tenpounder	Elops.	Elops saurus.
Thimble-eved mackerel	Bullseye	Scomber colias.
Tilefish		Lopholatilus chamxleonticeps.
		(Microgadus tomcod (Atlantic coast).
Tomcod		(Microgadus proximus (Pacific coast).
Tripletail		Lobotes surinamensis.
Tuna	Bluefin tuna, tunny, horse mackerel, leaping tuna.	Thunnus thynnus.
Turbot	Greenland halibut, American turbot	Reinharditus hippoglossoides.
		Balistes carolinensis.
White bass	White lake bass	Roccus chrysops.
Whitebait		Small fry of any fish.
Whitefish	***************************************	(Great Lakes).
		(Caulolatilus princeps (Pacific coast).
Whitefish (Menominee)		Coregonus clupeaformis.
Whiting	Silver hake	Merluccius bilinearis.
Wolffish		Anarrhichas lupus.
Yellow bass		Morone interrupta.
Yellow perch	Wall-eyed pike, pike perch, dore	Perca flavescens.
Yellow pike	Wall-eyed pike, pike perch, dore	Stizostedion vitreum.
Yellowfin tuna		Neothunnus macropterus.
Vallowtail		(Ocyurus chrysurus (Atlantic coast).
		Seriola dorsalis (Pacific coast).
Wahoo		Acanthocybium solandri.
Abalone		Halotis species.
Clams:		
Hard	Round clam, cherrystone, quahog, little neck.	{ Tivela stultorum (Pacific coast). Venus mercenaria (Atlantic coast).
Cockle		Venus mortoni (Florida coast).
	Cond clam coft ab W 3 -1	Cardium corbis.
Soft	Sand clam, soft-shelled clam, nanny-	Mya arenaria.
Coref	nose, maninose.	36 1 12 1
Pages (Atlantia)	Skimmer	Mactra solidissima.
Razor (Atlantic)		Siliqua species; Tagelus species.
Razor (Pacific)		Siliqua patula.
		Tivela stultorum (Pacific coast).
Conche		{Strombus species. Busycon species.
COHCHS		

Common and scientific names of the commercial fishery products caught in the United States and Alaska—Continued

Common name as shown in bureau reports	Other common names	Scientific names		
Crabs: StoneSoft	Soft-shelled crab, blue crab(Hardshell crab, blue crab	Menippi mercenaria. Callinectes sapidus. Do.		
Hard	Dungeness crab	Cancer magister (Pacific coast). Cancer irroratus (Atlantic coast).		
King Spider	Horseshoe crab	Limulus. Hyas coarctatus.		
Crawfish	Crayfish	(Cambarus species (Atlantic coast). Astacus species (Pacific coast).		
Lobsters: Common	***************************************	Homarus americanus (Atlantic coast)		
Spiny	Rock lobster, crayfish	(Panulirus interruptus (Pacific coast) (Panulirus argus (Atlantic coast).		
Mussels:	Brist Education world A Arthur			
Sea		Mytilus californianus (Pacific coast). Mytilus calulis. Quadrula species. Lampsilis species.		
Freshwater		Symphynota species. Unio species.		
Octopus Oysters: Eastern		Octopus punctatus (Pacific coast). Ostrea elongata.		
Western Japanese (introduced)_	Olympia	Ostrea lurida (Pacific coast). Ostrea gigas.		
Periwinkles Scallops: Sea		Littorina species. Pecten magellanicus.		
Bay	sagonas natividades accordinate	Pecten irradians (Atlantic coast). Pecten æquisulcatus (Pacific coast). Peneus setiferus, Peneus brasiliensis (Atlantic and		
Shrimp		Gulf coasts). Pandalus species (Pacific coast). Pandalopsis species (Pacific coast). Crangon species (Pacific coast).		
Snails		Gastropoda species.		
		(Loligo opalescens (Pacific coast). Loligo pealei (Atlantic coast).		
Loggerhead		Thalassochelys caretta. Chelonia inbricata.		
	Mud turtle, mossback Diamond-back terrapin	Chelydra serpentina. Malacoclemmys palustris.		
Frogs Irish moss Kelp	***************************************	Rana species. Chondrus crispus. Macrocystis species; Nereocystis species; Pelagophycus species; Alaria species.		
Sponges: Glove		Spangia graminea (Hyatt) Euspangia		
	Sea cucumber	officianalis (L.). Hippospongia equina cerebriformis. Hippospongia canaliculata gossypina. Hippospongia equina elastica. Cucumaris frondosa; Thyone briareus		

STATISTICAL SURVEY PROCEDURE

METHODS OF COLLECTION

In order that persons using the statistics in this report may judge as to their completeness and authenticity, there follows an outline of the methods employed by the bureau in collecting fishery statistics. It will be noted that several methods are used. Each method has been carefully studied to obtain the best results with the available personnel.

General fishery statistics.—In the collection of general fishery statistics, data are obtained on the catch of fishery products and its value

as landed by the fishermen, the quantity or number of each kind of gear used, the number of fishing boats, the number and net tonnage of fishing and transporting vessels, the number of wholesale establishments, the amount of wages and salaries paid in these establishments, the quantity and value of products prepared, and the number of

persons engaged in each phase of the industry.

The scope of the coastal surveys includes the commercial fisheries of the oceans, bays, and coastal rivers as far inland as commercial fishing is important. This usually coincides with the range of commercial fishing for anadromous species. Statistics of the fisheries of the Mississippi River include the fisheries of the Mississippi River proper, as well as all tributaries wherein commercial fishing for either fish, crustaceans, or mollusks is prosecuted. Statistics of the lake fisheries include those prosecuted in the Great Lakes, adjacent bays, and the international lakes of northern Minnesota, as well as certain rivers having outlets into these waters.

Beginning in 1929 general fishery statistics have been collected on an annual basis for all of the marine and lake sections of the United

States and Alaska.

In conducting these surveys it is the custom of the bureau to dispatch agents to the districts to be surveyed early in the calendar year. (It should be noted that statistics on the catch of oysters for 1930 cover the calendar year. In previous years statistics for this mollusk were for the oyster season.) They obtain statistics on operations during the previous calendar year. The agents conducting these surveys are trained men or recruits working under the close supervision of trained men. Recruits are permitted to work individually only after proving a satisfactory aptitude for the work during their training period. While it is impossible for the few agents available to interview each fisherman in a given locality, the more important ones are visited and a sufficient number of those of lesser importance are interviewed to obtain reliable information on their production. In practice, virtually all wholesale firms are visited, as well as captains of fishing vessels (those of 5 net tons or over) and also all the more important shore fishermen and representative small producers.

As an aid in locating fishermen, lists of vessels and motor-boat owners are obtained from local customhouses. It is also often possible to obtain the names of licensed commercial fishermen and occasionally some statistics of the catch from the various State fishery agencies. In the Great Lakes and Pacific Coast States such exceptional cooperation has been obtained from the State agencies in recent years that only fragmentary surveys are made by the bureau to supplement missing data. Virginia and Maryland have recently adopted very

complete statistical plans.

For the Great Lakes and international lakes of northern Minnesota the bureau obtains catch statistics and usually the value of the catch direct from the State records. To obtain data on the fishermen, boats, vessels, and gear the bureau conducts such personal surveys among the fishermen as may be necessary to supplement the State records. Annual catch statistics are available since 1913.

Agents are stationed at Seattle, Wash., who survey each of the Pacific Coast States annually to supplement data that are missing from the State records. In most cases the value of the catch is derived from dealers' records and from estimates of prices. In

Washington and Oregon the offshore fisheries are surveyed separately for units of operation, catch, and value of the catch. In almost all other respects the statistics are as collected by the States. Statistics of the wholesale industry for this section are obtained largely by personal interview.

The fisheries of Alaska are conducted primarily by large operators. Sworn statements are required from these operators concerning their operations. These are collected and compiled by the Alaska division

of this bureau.

Statistics on the catch of fish collected in the above general canvasses are shown in this report on the basis of round weight, that is, the weight of the fish as caught, except in the Pacific Coast States

where "as landed" weights are shown.

In general in the Pacific Coast States halibut is landed heads on but eviscerated; tuna and tunalike fishes are landed headless and eviscerated; swordfish may be landed headless and eviscerated; some salmon, especially that caught by troll lines, may be eviscerated; "lingcod," rockfishes, and sablefish may be landed eviscerated. The weight of cod caught off Alaska and shown in the Pacific coast tables has been converted to the basis of round weight.

Bulletins containing statistics for each section are released following

the survey.

Landings at certain important United States ports.—Statistics of the landings at the principal New England ports, Boston and Gloucester, Mass., and Portland, Me., are similarly obtained. An agent is permanently stationed at each of these ports. His duties include the obtaining of statistics on the quantity of fish landed each day by each fishing vessel, the value of such fish landed, information concerning the date of departure and arrival of the vessel, and also a list of the grounds from which the fish were taken and the gear used in their capture. These statistics are forwarded to the bureau, where compilations are made. Monthly statistical bulletins are issued for these landings as well as annual bulletins summarizing the year's activities.

Statistics of the landings of fish at Seattle, Wash., are collected by the bureau's agent in that city. Landings are classified as those made by American fishing vessels and those received by Seattle wholesale dealers. The landings credited to United States fishing vessels are made by vessels operating distinctly as primary fishing units, usually in the offshore fisheries, while those credited as received by wholesale dealers are usually products of the shore fisheries collected mainly from points in Puget Sound and do not include fish received from Alaska or Canada, or landings made by the halibut fleet. Monthly statistical bulletins are issued for these landings as well as annual bulletins summarizing the year's activities.

Statistics on the landings of fish at New York City are obtained by J. H. Matthews, executive secretary of the Middle Atlantic Fisheries Association, while those for Groton, Conn., are obtained by the bureau's agents. Statements of these landings are forwarded to the bureau, where they are compiled. These statistics have not included the value of the catch. Monthly bulletins including these data are

not issued; however, a summary is published in this document.

Statistics of the fishery products handled at the municipal wharf, Washington, D. C., are reported to the bureau by agents of the city health department. They are not published in bulletin form, but a summary of the year's activities is published in the annual report of this division.

Atlantic mackerel fishery.—Statistics on the catch by the Atlantic mackerel fleet are obtained by combining the figures of mackerel landed at Boston and Gloucester, Mass., and Portland, Me., with those obtained by agents who in recent years have been stationed at other Atlantic ports where mackerel are landed. These agents obtain data on the fares of mackerel landed, similar to the data obtained on the landings by fishing vessels at the three New England ports. The figures include only the catches made by purse seine and drift gill net craft and are not complete for these gears for craft under 5 net tons, capacity. Statistics of this fishery appear only in the annual reports of this division, although the landings at the principal New England ports appear in the monthly and annual bulletins published for those ports.

Shad and alewife fisheries.—Due to the importance of the Hudson and Potomac Rivers in the production of shad, surveys for the statistics of the catch, value of the catch, and operating units are made annually. On the Potomac River similar statistics also are obtained for the alewife fishery. The surveys are conducted by agents in a manner similar to that employed in the collection of general fishery statistics, except that probably more fishermen are interviewed, as great care is exercised to make these canvasses as accurate as possible. The State of New York obtains statistics for the fisheries of the

Hudson River that closely parallel those desired by the bureau for this fishery, which alleviates the work on this river.

Statistics of the shad and alewife fisheries are not published separately in bulletin form, but a summary of the year's activities is

published in the annual report of this division.

Sponge market, Tarpon Springs.—A large proportion of the total output of sponges in Florida is handled through the sponge exchange at Tarpon Springs. In view of this, the bureau has arranged with a representative of the exchange to furnish statistics of the quantity and value of the sponges, by variety classification, handled through it annually. Statistics of the quantity of sponges handled through the exchange are not published in bulletin form, but a summary of the year's activities is published in the annual reports of this division.

Pacific halibut fishery.—Statistics of the Pacific halibut fishery are obtained by the bureau's agent in Seattle, aided by bureau representatives in Alaska, American consuls in British Columbia, the International Fisheries Commission, and the Prince Rupert Halibut Exchange. The fleet classification has been arbitrarily applied by including in the "Washington fleet" all United States and Alaska vessels that land more than half of their catch in that State. All other United States and Alaska vessels of the halibut fleet are included in the "Alaska fleet." Monthly and annual statistical bulletins are available on this fishery, being published along with the statistics of the landings of fishery products at Seattle, Wash.

Canned fishery products and by-products.—Beginning in 1921, the

Canned fishery products and by-products.—Beginning in 1921, the bureau has made annual surveys for statistics of the canned fishery products and by-products industries. These are begun the first

week in January of each year for statistics of the production in the preceding year. The surveys usually occupy six to nine weeks' time. During this period agents visit each plant in the United States where there is a production of canned fishery products or by-products. They obtain statistics of the production and value of the production for each commodity. In rare instances, where plants are not easily reached by regular transportation facilities, returns are obtained by mail.

The value shown for canned products constitutes the gross amount received by the packer at the production point, no deductions being

made for commissions or expenses.

Statistics of the canned fishery products and by-products produced in Alaska are received on the same sworn statements that include statistics of the general fisheries. An annual statistical bulletin is issued on this trade.

Manufactured fishery products.—Statistics were obtained for 1930 for the first time on the total production of the many fishery products manufactured in the marine and lakes sections of the United States.

These data appear only in the annual report of this division.

Packaged-fish trade.—Complete statistics of the annual production and value of fish packaged in the United States are obtained as a part of the survey for statistics of the canned fishery products and by-products industries. These statistics are published in bulletin

form annually.

Cold-storage holdings of fish.—An arrangement has been made with the Bureau of Agricultural Economics, Department of Agriculture, whereby statistics of the cold-storage holdings of the various species of fish, by sections of the United States, are furnished to this bureau monthly. Included with statistics of the holdings is a statement of the quantity of the various species of fish frozen and also the holdings of certain cured fish. Bulletins showing these statistics are issued monthly as well as annually.

Foreign fishery trade.—Statistics on the foreign fishery trade are obtained from compilations made by the Bureau of Foreign and Domestic Commerce. Statistics of all known fishery products imported or exported are assembled in one table and published annually

in the report of this division.

COMPILATION PRACTICES

Certain practices of importance used in the compilation of fishery

statistics are explained below.

Days absent.—In computing "days absent" for vessels landing fares at the various ports, the day of departure and the day of arrival are included; thus, a vessel leaving port on the 8th of the month and returning on the 15th of the month will be shown as being absent eight days.

Operating units.—Operating units as referred to in this document

include persons engaged and fishing craft and gear employed.

Vessels.—The term "vessels" refers to craft having a capacity of

5 net tons or greater.

Incidental catch.—The term "incidental catch" refers to the catch of certain species by a type of gear which ordinarily does not take appreciable amounts, if any, of such species.

Percentages.—Percentages are usually shown as whole numbers. Fractions of per cents are dropped if less than five-tenths, and the percentage is raised to the next higher integer if the fraction is greater than five-tenths. If the fraction is exactly five-tenths, the integer is

raised or lowered to make it an even number.

Converting.—Many of the figures shown in the statistical tables published herewith have been reduced to thousands of pounds or dollars. In making these conversions the largest number from which a group of items is computed is raised or lowered to the nearest thousands place. If the number ends in an even 500, the thousands integer is raised or lowered to make it an even number. The individual items are changed to conform to the total thus obtained.

CONVERSION FACTORS

It is the policy of the bureau to show the detailed catch figures of all products in pounds for the sake of uniformity and for purposes of comparison. Following such a policy presents very definite problems. In the case of fish there is little difficulty since in very rare instances are such products reported in units of measure other than pounds. For shellfish, however, the units of measure may be bushels, sacks, barrels, or thousands of shellfish, gallons of meats, etc. These many units make standardization difficult, but when coupled with the wide variation in the requirements or definition of some of these units in the various States the problem becomes even more complex.

All bivalve mollusks are reported in pounds of meats in the detailed catch tables presented in this report. In addition there is presented a supplementary table for each section on the production in bushels. These supplementary tables also give the production of certain other

shellfish, such as crabs, in number.

Oysters.—Probably the greatest problem in presentation of fishery statistics in uniform units of measure is in the case of oysters. Usually the production of oysters on the Atlantic and Gulf coasts is reported to bureau agents in bushels and prior to the data shown in this report conversion from bushels to pounds of meats was effected on the basis of a uniform yield of 7 pounds of meat to the bushel. There follows a table which gives the results of a recent study of the measures used for oysters in the various States and of the average yields per bushel. This table presents the new factors that have been used in the oyster statistics given in this report. These figures apply to the year 1930 and are based on the records of oyster canneries and shucking houses. It is probable that in subsequent years there will be variations from these figures.

Measures and yields of oysters

	Capacity	Variation from United States standard bushel		Market oysters		Seed oysters	
State	of State bushel	Cubic inches	Per cent		Yield per standard bushel	Yield per State bushel	Yield per standard bushel
	Cubic			Pounds of meat	Pounds of meat	Pounds of meat	Pounds of meat
Massachusetts	2, 150. 4			8.8	8.8	7.0	7.0
Rhode Island				8.0	8.0	7.0	7.0 7.0
Connecticut				7.5	7.5 7.0	7.0	7.0
New Jersey		+126.9	+5.0	8.41	7.96	4.5	4. 20
Delaware	2, 257. 3	+126.9	+5.0	7.5	7, 1	4.5	4. 26
Maryland		+650.1	+30.2	7.413	5. 69	5.0	3.8
Virginia		+853.0	+39.7	6, 86	4.91	5.0	3, 50
North Carolina		+651.5	+30.3	5. 36	4.11		
South Carolina		+1,921.1	+89.3	4.61	2.44		
Georgia Florida		+603.0	+28.0 +49.4	4.41 3.34	3, 44 2, 23		
Florida Alabama		+1,063.7 $+675.8$	+31.4	3, 34	2. 23		
Mississippi		+675.8	+31.4	1. 91	1.45	*******	
Louisiana		-2.0	-0.1	3, 99	3, 99		
Texas	2, 700. 0	+549.6	+25.6	4.65	3, 70		

Other mollusks.—Whereas in previous reports certain other mollusks have been converted from bushels to pounds of meats on the basis of an average yield for the whole country, a more detailed study established the factors for the various States for 1930 which are shown in the following table.

Average yields of certain mollusks in pounds of meats per bushel

State	Clams, hard		Clams, soft		Clams,	Cockles	Mussels,	Peri-	Scallops
	Publie	Private	Public	Private	surf	Cockles	Se _L	winkles	sea and bay
Maine.			17	17		10			
Massachusetts	11	11	17		12	18	10	18	
Rhode Island	11	11	17				10	18	
Connecticut	8		15						
New York	9	10	15	15	12		10		
New Jersey	8	10	12	12	12		10		
Delaware		8					10		
Maryland	8 8								6
/irginia	8								
North Carolina	10								
outh Carolina	10								
Peorgia	10								
Florida	8	8							

Other conversion factors.—The principal other conversion factors that have been used in this report are as follows:

Alewives______ To convert number of fish to weight in pounds, multiply by 0.4.

Cod, large, salted______ To convert to fresh-gutted weight, multiply by 1.90.

Cod, market, salted_____ To convert to fresh-gutted weight, multiply by 1.94.

Cod, scrod, salted_____ To convert to fresh-gutted weight, multiply by 1.98.

Cod, all sizes, fresh-gutted_____ To convert to round weight, multiply by 1.25.

0 1	4					
Crustaceans:	To convert number of crabs to weight in					
Crabs, soft (all States)	To convert number of crabs to weight in pounds, divide by 3.					
Crabs, hard (Florida)	To convert number of crabs to weight in pounds, divide by 1.86.					
Crabs, hard (Alabama)	To convert number of crabs to weight in pounds, divide by 1.715.					
Crabs, hard (Mississippi)	To convert number of crabs to weight in pounds, divide by 1.715.					
Crabs, hard (Louisiana)	To convert number of crabs to weight in pounds, divide by 1.86.					
Crabs, hard (Texas)	To convert number of crabs to weight in pounds, divide by 1.715.					
Crabs, hard (other States)	To convert number of crabs to weight in pounds, divide by 3.					
Crabs, king	To convert number of crabs to weight in pounds, multiply by 4.					
Crabs, rock	To convert number of crabs to weight in pounds, divide by 3.					
Cusk, salted	To convert to fresh-gutted weight, multiply by 1.90.					
Haddock, large, salted	To convert to fresh-gutted weight, multiply by 2.06.					
Haddock, scrod, salted	To convert to fresh-gutted weight, multiply by 2.10.					
Haddock, fresh-gutted, all sizes Hake, large, salted	To convert to round weight, multiply by 1.25. To convert to fresh-gutted weight, multiply by 1.90.					
Hake, small, salted	To convert to fresh-gutted weight, multiply by 1.98.					
Halibut, salted	To convert to fresh-gutted weight, multiply by 2.					
Herring, salted	To convert to round weight, multiply by 1.50.					
Mackerel, salted Menhaden	To convert to round weight, multiply by 1.35. To convert number of fish to weight in pounds,					
	multiply by 0.6.					
Oil (east coast)	To convert gallons to pounds, multiply by 7.74.					
Oil (west coast)	To convert gallons to pounds, multiply by 7.5.					
Pollock, salted	To convert to fresh-gutted weight, multiply by 1.90.					
Sponges, dried (Florida): Large wool	To convert number of bunches of sponges to					
Small wool	weight in pounds, multiply by 2.5. To convert number of bunches of sponges to					
Glove	weight in pounds, multiply by 1. To convert number of bunches of sponges to					
Grass						
Wire	weight in pounds, multiply by 2.5. To convert number of bunches of sponges to weight in pounds, multiply by 1.5.					
Yellow	To convert number of bunches of sponges to weight in pounds, multiply by 1.5.					
	G L					

concernon interte-The minoipal other convenies a hern used in this report are as follows: