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By OSCAR E. SETTE



DEPARTMENT OF COMMERCE

Bureau of Fisheries Document No. 997

DEPARTMENT OF COMMERCE BUREAU OF FISHERIES HENRY O'MALLEY, Commissioner

FISHERY INDUSTRIES OF THE UNITED STATES 1924

By OSCAR E. SETTE

Assistant in Charge, Division of Fishery Industries

APPENDIX VII TO THE REPORT OF THE U.S. COMMISSIONER OF FISHERIES FOR 1925



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¹ Appendix VII to the Report of the United States Commissioner of Fisheries for 1925. B. F. Doc. 997.

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INTRODUCTION

During 1924 the fishery industries appear to have reached the end of their period of recovery from the postwar depression, which was so severely felt during 1919 and to a lesser extent in subsequent years. In general, the production of fish and fishery products was greater in volume than during the previous year, but the prices which they commanded were somewhat lower.

According to statistics collected on various geographical sections during the past five years over 190,000 persons are engaged in the fisheries and related industries, about \$200,000,000 is invested, and the annual yield by fishermen is about 2,600,000,000 pounds of fish, shellfish, and other aquatic products, for which the fishermen receive about \$90,000,000. The output of canned fishery products in 1924 was valued at \$72,000,000, and the yield of by-products exceeded \$10,000,000 in value.

SUMMARY OF OPERATIONS

The technological work of the division during 1924 included a continuation of experiments in the canning of sardines in California and Maine; continuation of investigations relative to the use of copper oleate as a net preservative, with particular reference to preservative action and comparative costs in actual commercial operation; investigation of the utilization of wastes in the fishery industries; and analyses of canned, salted, and smoked fish and shellfish to determine their iodine content. These investigations are fully discussed in following pages.

The statistical work included the collection and monthly publication of statistics of the landings of fish by vessels at the ports of Boston and Gloucester, Mass.; Portland, Me.; and Seattle, Wash., with publication of annual bulletins summarizing these landings for the year; monthly publication of statistics on the cold-storage holdings of fish, which are collected by the Bureau of Agricultural Economics, Department of Agriculture; collection of the statistics on quarterly production, consumption, and holdings of oils in the fishery industries for use of the Bureau of the Census; collection of the statistics on the production of canned fishery products and byproducts of the United States and Alaska for the year 1924; compilation and publication of the statistics of the fisheries of the Mississippi River and tributaries and the Great Lakes; compilation of statistics of the fisheries of the Pacific coast in 1922; and collection of statistics on the fisheries of the South Atlantic and Gulf States for 1923.

Including those published in this report, the most recent detailed statistics available for each of the various geographical sections are as follows: New England States, 1919; New York, New Jersey, and Delaware, 1921; Maryland and Virginia, 1920; South Atlantic States, 1923; Gulf States, 1918; Pacific Coast States, 1922 and 1923; Mississippi River and tributaries, 1922; and Great Lakes, 1922.

In order to make results of statistical canvasses and technological research available to those interested, 16,000 copies of statistical bulletins on 42 subjects were distributed to interested persons, and over 1,600 letters were written in reply to specific requests for statistical, technological, and trade information.

In response to urgent requests from men in the crab industry, a special investigation to determine the cause for the present serious condition of this industry was begun during the latter part of 1924 and is being continued.

PUBLICATIONS OF THE DIVISION

During the calendar year 1923 the following publications, prepared in this division, were issued. This list does not include the monthly statistical bulletins for Boston and Gloucester, Mass.; Portland, Me.; and Seattle, Wash., nor the monthly publication of the cold-storage holdings of frozen fish.

DOCUMENTS

Iodine content of sea foods; by Donald K. Tressler and Arthur W. Wells, 8°, 12 pp. Document No. 967.

Fishery industries of the United States, 1923; by Oscar E. Sette, 8°, 219 pp. Document No. 976.

STATISTICAL BULLETINS

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Seattle, Wash., by American fishing vessels during the calendar year 1923. Statistical Bulletin No. 598.

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1923. Statistical Bulletin No. 599. Statement, by fishing grounds, of quantities and values of certain fishery

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1923. Statistical Bulletin No. 600.

Fisheries of the Mississippi River and tributaries, 1922. Statistical Bulletin No. 607.

Canned fishery products and by-products of the United States and Alaska, 1923. Statistical Bulletin No. 608.

Fisheries of the Great Lakes, Lake of the Woods, and Rainey Lake, 1922. Statistical Bulletin No. 618.

Fisheries of Alaska, 1923. Statistical Bulletin No. 625.

TECHNOLOGICAL INVESTIGATIONS

The bureau is giving attention to such technological research as limited funds and personnel permit. Its policy is to select broad, fundamental studies which are urgent, which promise to be of greatest value to the largest number, and which the fisheries industries themselves are least capable of undertaking. These industries offer excellent opportunities for the application of science, and a large amount of research in this field must be conducted before they can be placed on the same plane of efficiency as similar industries in other fields. Few realize, especially in the fisheries industries, the advancements which can be brought about by means of well-directed, adequately supported, technological investigations, and it is important that the bureau demonstrate the possibilities of such research. Rapid progress of the fisheries industries depends largely upon work of this nature combined with the application of sound business principles.

CANNING SARDINES

Sardine canning is an important part of the fishery industries. In 1924 over 3,250,000 cases were packed, having a value in excess of \$12,500,000. These figures place this industry next to that of salmon canning in importance and, excluding Alaska salmon, first among our canned fishery products. This industry, too, can be greatly expanded, there being large supplies of herring, pilchards, and like fishes which can be utilized. In time, undoubtedly, this expansion will take place, due to the increasing world demand for cheap food of high protein content.

Our canned sardines, meet very keen competition at home and abroad, however, and if we are to capture and hold our share of the world markets our products must be high in quality as well as low in price. Since 1920 the bureau has been conducting research upon the preparation of fish for canning as sardines, making available lacking fundamental scientific information upon this important subject and working toward the development of a better and cheaper method of preparing the fish. Considerable success is being attained along these lines.

In the last report mention was made of the development and successful operation on small and semicommercial scales of a new process of preparing fish for canning as sardines. This method was developed in the bureau's experimental laboratory at San Pedro, Calif. Since then experiments have been carried out in Maine, ending in the successful application of the same process to the preparation of Maine sardines.

The new process depends on rapidly moving hot air to cook and dry the fish at the same time, followed, if desired, by a period of cooling in a blast of cold air so that they may be packed immediately. An additional development was brought forward by the Maine experiments—while simultaneously drying and cooking small fish they can also be given a light smoking by the simple and inexpensive procedure of adding smoke to the drying air.

It is firmly believed that no other method of preparing fish for canning as sardines offers equal possibilities for lowering the production costs and improving the products made from both small and large fish in California and Maine. The packs put up by the new process from California fish are, in the long run, better than similar products which have been fried in oil. The same is true with regard to packs produced by the new method as compared with goods prepared from steamed and fried fish in Maine.

Tests extensive enough to prove the above claims have been carried out. It remains to be shown, however, how well the process will work out on a commercial scale. For this purpose a commercialsized installation of relatively expensive equipment, different from any now being used, is required. Engineering companies will design and construct equipment and make guaranties both upon the equipment itself and the cost of operation. These guaranties in effect assure successful operation, but even with these assurances there is reluctance upon the part of the canners to scrap old equipment and purchase new until there is positive proof that the venture will be successful both from the technical and business standpoints. It is becoming evident that some plan for bringing about development

of the process on a large scale must be formulated which will eliminate most of the risk to the canners. This phase of the problem is now receiving consideration.

UTILIZATION OF BY-PRODUCTS

Considerable progress has been made in the last few years in the utilization of the large quantities of waste fish and offal from fish markets and concerns manufacturing preserved products. Oil can be extracted from most fish waste and the residue made into fish meal. These products are very valuable. The oil is used in making soaps, paints, in tanning leather, and for many other purposes, and the meal serves as a stock and poultry food and as a fertilizer. Although considerable has been accomplished in eliminating waste, much vet remains to be done. Less than half the supply of waste products of the fisheries is now being utilized, and present practices of manufacturing fish meal and oil, both from offal and from nonedible fish, are in general quite inefficient. There are also possibilities for producing better and more valuable products. The bureau is especially interested in these problems, as any improvement which can be brought, either through education or by research, increases the prosperity of the fisheries industries and contributes to national economy.

Some phases of this problem are of particular importance at this time. Ways should be developed of either eliminating the press liquors or of economically recovering and utilizing the protein matter which is present in these liquors and now discarded. This material is not only a large waste but it seriously pollutes our coastal waters in some places. There is need for small, inexpensive plants to handle small quantities of offal, such as collect in many places, and for equipment to handle profitably large quantities of material for a period of 4 to 6 weeks of each year. At present it only pays to handle relatively large amounts of fish or offal where operation can be continuous over a good part of the year. Research is now being conducted along these lines.

PRESERVATION OF NETS

Many very good reports are being received concerning the use of copper oleate as a net preservative. It is proving particularly effective on pound nets, especially in combination with copper paint. On the coasts of Long Island and New Jersey tarred netting ordinarily lasts but two season and has to be taken from the water about twice a month during part of the season in order that hydroids, barnacles, and other growths may be removed. Where the copper oleatecopper paint mixture is used it is only necessary to remove the netting for treatment about every two months, there being no growth. Under such conditions with the twine in a pound net costing around \$4,000 for each net it is proving very profitable to use this mixture.

Unfavorable reports also are received, and in many cases fishermen who started to use copper oleate have gone back to old methods of preserving their twine. Copper eleate may be applied improperly or used for a purpose for which it was not intended, and cases of dis-

satisfaction are frequently traced to these causes. Copper oleate, however, has proved to be an excellent preservative and antifouling agent for fish nets wherever used properly. Usually a fisherman considers only the first cost and does not consider whether it might not be much cheaper in the long run to frequently treat his nets with copper oleate rather than to buy new netting.

The full value of cooper oleate as a net preservative can not be determined until accurate data are available upon the costs of treating netting with different preservatives, including copper oleate, and the length of life of the twine so treated. Practical tests of this nature have been arranged in cooperation with fishermen at several points on the Atlantic seaboard and on the Great Lakes. These tests will also show the advantages and disadvantages of using copper oleate under practical conditions and indicate what modifications in its use are necessary for different kinds of gear under the widely varying conditions to which they are subjected.

Cordage manufacturers are finding copper oleate to be a good preservative and antifouling agent for manila rope. At least one company now sells for marine use a line of rope treated with this material.

IODINE CONTENT OF PRESERVED SEA FOODS

In a paper published during 1924 (Bureau of Fisheries Document No. 967) it was shown that fresh sea foods contain a higher percentage of iodine than other common foods. It was pointed out that since goiter and other thyroid disorders are caused by a lack of iodine being ingested, the liberal use of sea foods in the diet should be an effective preventive of these disorders, especially in so-called goiterous belts where the iodine content of the water and foods is below normal. The amount of iodine necessary to prevent goiter is very small—only about one part in 3,000,000 parts of the body weight—but it is important that this balance be maintained.

Many of these goiterous belts are so located that it is rather difficult for the inhabitants to obtain marine fish in the fresh condition. Much of the marine fish which they consume has been preserved in some manner, such as canning, salting, and smoking. The question naturally arises as to whether these preserved products contain iodine in quantities comparable to that in fresh fish. A series of analyses was made which indicates that such products do contain comparable quantities of iodine. The results of these analyses were published in Bureau of Fisheries Document No. 979.

CRAB FISHERY OF CHESAPEAKE BAY

Due to the alarming decline in the crab production of Chesapeake Bay, particularly along the eastern shore, the bureau was strongly urged to investigate this industry. Very little information was available upon which to base a determination of the character or reasons for the decline, and it was therefore first necessary to make a statistical survey in which particular attention was directed to the discovery of such statistics on catches during previous years as could be found in the records of crab houses. An analysis of such statistics as were found indicated that the decline in abundance of crabs took place well in advance of a decline in total catch. The total catch did not decline seriously until sometime between 1915 and 1920, whereas the catch per boat began its most serious decline in 1909, and the total catch has since been maintained by vastly greater fishing effort. Apparently in recent years the scarcity of crabs has been so pronounced that high prices and greater fishing effort have not been productive of a yield sufficient to meet present demands. All available data point to the fact that the depletion is due to overfishing and not to natural causes.

A feature of the soft-crab industry which came to light upon examining the records of crab houses was the excessive losses in converting peeler crabs into soft crabs. Among 10 firms whose records were made available there was a loss of 30 to 70 per cent in the shedder floats during the year. The average loss was over 50 per cent. This was due almost exclusively to the practice of taking crabs long before they were in the true peeler stage and attempting to hold them for extended periods of time in the hope that they would shed and become soft crabs.

There are well-defined differences which take place in the external appearance of the crab as it approaches shedding time and these are well known to fishermen. Two firms which accepted only crabs in the advances peeler stage sustained shedding losses averaging only 15 per cent. It was recommended that steps be taken to avoid these losses, and, with active interest of administrating officials of both States in this matter, it is believed that the evil will be rectified.

Although this may bring about an improvement of conditions in the crab industry, it will be necessary to employ more drastic measures to bring about a satisfactory recovery of the fishery. Surveys are now under way to determine the relationship of the Virginia and Maryland fisheries to the depletion of the general stock of crabs and the probable effect of restrictive measures.

TRAWL-NET FISHERY OF CHESAPEAKE BAY AND TRIBUTARIES

During the winter of 1924-25 trawl-net fishermen were reported to be operating in the Patuxent River and Chesapeake Bay with a new and destructive type of gear. At the urgent invitation of the Conservation Department of Maryland the writer was detailed to cooperate in observing this fishery and investigating its destructiveness.

It was found that the net operated was essentially a small otter trawl, fished in the deeper waters of this region in the wintertime when the white perch (Morone americana) and striped bass (Roccus lineatus) were concentrated in the deeper "holes" and could be caught by this gear in unusually large quantities.

Actual counts of fish taken by this gear showed that 20 to 55 per cent of white perch and 25 to 50 per cent of the striped bass were under the size which was legal in the State of Maryland, and observations indicated that these undersized fish when returned to the water did not survive.

The conclusions drawn from the investigation were:

1. This fishery catches from 20 to 55 per cent of small, unmarketable fish, few of which can survive.

2. This fishery can destroy large quantities of brood stock necessary to perpetuate the species. 69239—26†—2

3. A continuation of the fishery might seriously deplete the white perch and striped bass of the Patuxent River and Chesapeake Bay or of any waters where similar conditions obtain.

It was therefore recommended that the Conservation Department of Maryland prohibit this fishery, and subsequent advices received from the department indicate that it has been entirely stopped.

CANNED FISHERY PRODUCTS AND BY-PRODUCTS OF THE UNITED STATES AND ALASKA, 1924

The fish-canning and by-products industries of the United States and Alaska attained a production in 1924 valued at \$82,473,579, of which canned goods amounted to \$72,164,589 and by-products to \$10,308,990. This is a decrease of 0.4 per cent in the value of canned products and of 18.4 per cent in the value of by-products as compared with 1923. Named in order of value, the most important canned products in 1924 were salmon, sardines, tuna, shrimp, and oysters. Of the by-products, fish oils, fish scrap and meal, and crushed oyster shells were most important.

CANNED FISHERY PRODUCTS

SALMON

In 1924 there were 186 plants engaged in canning salmon in the Pacific Coast States and Alaska as compared with 188 in the previous year. Of the total in 1924, 130 were operated in Alaska, 32 in Washington, 22 in Oregon, and 2 in California. The pack of canned salmon, on the basis of forty-eight 1-pound cans to the case, amounted to 6,253,577 cases, valued at \$42,401,602, as compared with 6,402,906 cases, valued at \$45,533,573, in 1923, a decrease of 2.3 per cent in quantity and 6.9 per cent in value.

In the Pacific Coast States the pack amounted to 958,662 cases, valued at \$9,394,467, as follows: Chinook, 349,014 cases, valued at \$4,599,759; sockeye, 85,800 cases, valued at \$1,478,698; coho or silver, 231,139 cases, valued at \$1,774,078; humpback or pink, 12,778 cases, valued at \$79,436; chum, 247,858 cases, valued at \$1,192,156; steelhead, 32,073 cases, valued at \$270,340; and other salmon products valued at \$122,228. Of the total canned salmon in the Pacific Coast States Washington produced 541,962 cases, valued at \$5,062,082, and Oregon and California together 416,700 cases, valued at \$4,332,385.

In Alaska the pack amounted to 5,294,915 cases, valued at \$33,-007,135, divided as follows: Chinook, 33,648 cases, valued at \$299,009; red or sockeye, 1,447,895 cases, valued at \$13,803,932; coho or silver, 183,601 cases, valued at \$1,254,551; humpback or pink, 2,601,283 cases, valued at \$12,837,346; and chum or keta, 1,028,488 cases, valued at \$4,812,297. Of the total 2,787,789 cases, valued at \$14,-711,842, were packed in the southeastern district; 1,605,107 cases, valued at \$10,067,602, in the central district; and 902,019 cases, valued at \$8,227,691, in the western district.

Compared with 1923, there was a decrease of three plants in Washington and an increase of one each in Oregon, Alaska, and California. The pack in the Pacific Coast States decreased 29.9 per cent in quantity and 25.8 per cent in value. Most of the decrease was due to the very small pack of humpbacks, although the packs of chinooks,

sockeyes, and silvers also decreased. The pack of chums was larger than in 1923 and the pack of steelheads about the same. In Alaska the pack increased 5.2 per cent in quantity and 0.4 per cent in value. The increase of the Alaska pack was due almost entirely to the unusually large pack of humpbacks in the central district, although the pack of cohos was also larger than in 1923. A distinct decrease of nearly 50 per cent occurred in the pack of chums. The packs of kings or chinooks and reds or sockeyes also decreased.

		Р	Ala	iska					
Products	Wash	ington		on and ornia	Ť	otal	Southeast		
King, chinook, or spring: I-pound tall. 1-pound flat. I-pound oval.	Cases 17, 613 36, 161 2, 355	477,056 47,100	4, 554	Value \$89, 374 1, 184, 459 89, 140	6,909	1, 661, 515 136, 240	Cases 2, 566 4, 721	Value \$18, 555 44, 622	
1/2-pound flat 1/2-pound oval	78, 111 360	1, 089, 469 7, 200	102, 578 244	1, 508, 921 4, 880	180, 689 604	2, 598, 390 12, 080	995	11, 516	
Total	134, 600	1, 722, 985	214, 414	2, 876, 774	349, 014	4, 599, 759	8, 282	74, 693	
Red or sockeye: 1-pound tall 1-pound flat ½-pound flat	211 16, 215 64, 160	2, 954 227, 012 1, 154, 880		93, 852	211 16, 215 69, 374	2, 954 227, 012 1, 248, 732	140, 989 39, 717 11, 801	1, 291, 148 415, 789 156, 738	
Total	80, 586	1, 384, 846	5, 214	93, 852	85, 800	1, 478, 698	192, 507	1, 863, 675	
Coho or silver: 1-pound tall 1-pound flat ½-pound flat	55, 769 38, 221 23, 734	290, 481	49, 332 40, 546 23, 537	345, 324 305, 841 216, 539	105, 101 78, 767 47, 271	737, 863 596, 322 439, 893	$100,016 \\ 5,034 \\ 4,939$	667, 530 45, 367 50, 649	
Total	117, 724	906, 374	113, 415	867, 704	231, 139	1, 774, 078	109, 989	763, 546	
Humpback or pink: 1-pound tall. 1-pound flat	2, 841 5, 964		2, 438 776 759	12, 190 4, 190 5, 465	5, 279 776 6, 723	26, 395 4, 190 43, 851		51, 796	
Total	8, 805	57, 591	3, 973	21, 845	12, 778	79, 436	1, 677, 454	8, 282, 584	
Chum or keta: 1-pound tall 1-pound flat ½-pound flat	173, 812 15, 184		42, 478 1, 353 15, 031	195, 399 6, 494 92, 237	216, 290 1, 353 30, 215	989, 933 6, 494 195, 729	630	2, 819	
Total	188, 996	898, 026	58, 862	294, 130	247, 858	1, 192, 156	799, 557	3, 727, 344	
Steelhead: 1-pound tall 1-pound flat ½-pound flat and oval Total	2, 961 5, 028	20, 727 50, 655		61, 880 114, 946	3, 458 11, 887 16, 728	82, 607 165, 601			
	11, 251		20, 822	178,080	32, 073				
Grand total	541, 962	5, 062, 082	416, 700	4, 332, 385	958, 662	9, 394, 467	2, 787, 789	14, 711, 842	

Pack of canned salmon, 1924

	0.0 be		Alaska—	Continue	d		teani at			
Products	Cer	ntral	We	stern	т	otal	Grand total			
King, chinook, or spring: 1-pound tall. 1-pound flat. 1-pound oval.	4, 779	Value \$44, 871 54, 475		Value \$119, 298				1, 760, 612		
¹ / ₂ -pound flat ¹ / ₂ -pound oval	506	5, 672			1, 501	17, 188		2, 615, 578		
Total	10, 531	105, 018	14, 835	119, 298	33, 648	299, 009	382, 662	4, 898, 768		
Red or sockeye: 1-pound tall 1-pound flat ½-pound flat	63, 201 15, 827	633, 365 200, 801	7, 434 4, 319	70, 794 57, 736	110, 352 31, 947	12, 268, 709 1, 119, 948 415, 275	126, 567 101, 321	1, 346, 960 1, 664, 007		
Total	440, 049	4, 173, 676	815, 339	7, 766, 581	1, 447, 895	13, 803, 932	1, 533, 695	15, 282, 630		
Coho or silver: 1-pound tall 1-pound flat ½-pound flat	369	2,462		26, 909			84, 170			
Total	69, 180	464, 096	4, 432	26, 909	183, 601	1, 254, 551	414, 740	3, 028, 629		
Humpback or pink: 1-pound tall. 1-pound flat. ½-pound flat.	4, 163	22, 126			13,095	12, 611, 917 73, 922 151, 507	13, 871	78, 112		
Total	892, 413	4, 412, 557	31, 416	142, 205	2, 601, 283	12, 837, 346	2, 614, 061	12, 916, 782		
Chum or keta: 1-pound tall 1-pound flat ½-pound flat					1, 027, 512 630 346		1,983	9, 313		
Total	192, 934	912, 255	35, 997	172, 698	1, 028, 488	4, 812, 297	1, 276, 346	6, 004, 453		
Steelhead: 1-pound tall 1-pound flat ½-pound flat and oval							3, 458 11, 887 16, 728	82,607		
Total							32, 073	270, 340		
Grand total	1, 605, 107	10, 067, 602	902, 019	8, 227, 691	5, 294, 915	33, 007, 135	6, 253, 577	42, 401, 602		

Pack of canned salmon, 1924—Continued

NOTE.—The pack of salmon has been reduced to the equivalent of forty-eight 1-pound cans to the case. There were other salmon products, valued at \$125,174, not shown in the above table.

SARDINES

In 1924 there were 28 plants canning sardines in Maine, 1 in Massachusetts, and 24 in California. This is a decrease of one plant in Maine and an increase of two plants in California, as compared with 1923. The total pack in Maine, Massachusetts, and California was valued at \$12,636,599, as compared to \$9,896,796 in 1923, an increase of 28 per cent.

In Maine and Massachusetts there were produced 1,819,868 cases of various sizes, which are equivalent to 1,899,925 standard cases of 100 quarter-pound tins, valued at \$7,191,026, as compared with 1,272,277 standard cases, valued at \$5,288,865, in the previous year, an increase of 49.3 per cent in quantity and 36.0 per cent in value. The average price per standard case was \$3.78 in 1924, as compared to \$4.16 in 1923.

In California there were produced 1,407,731 cases of various sizes, which are equivalent to 1,367,139 standard cases of forty-eight 1-pound tins, valued at \$5,445,573, as compared with 1,100,162

standard cases, valued at \$4,607,931 in 1923, an increase of 24.3 per cent in quantity and 18.2 per cent in value. The average price per standard case has declined continuously since 1921, the averages being as follows: \$5.89 in 1921, \$4.70 in 1922, \$4.19 in 1923, and \$3.98 in 1924.

Pack of	canned	sardines,	1924
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Sardines (herring)	Maine an chus	d Massa- setts	Sardines (pilchard)	Califo	ornia
In olive oil: Quarters (100 cans) In cottonseed oil: Quarters (100 cans) In mustard: Quarters (100 cans) Three-quarters (48 cans) In tomato sauce: Quarters (100 cans)	Cases 39, 012 2 1,464, 830 114, 296 3 181, 948 19, 782	Value \$247, 025 5, 664, 578 483, 867 707, 366 88, 190	1/2-pound oval (48 cans) 1 1-pound oval (48 cans): In tomato sauce Soused Spiced In other sauces 1/4-pound square (100 cans)4 1/2-pound square (100 cans)4	Cases 16, 934 1, 240, 905 46, 675 4, 098 5, 217 22, 587 5 67, 386 6 3, 929	Value \$49, 349 4, 494, 233 173, 749 15, 266 18, 623 89, 113 552, 536 52, 704
Total	1, 819, 868	7, 191, 026	Total	1, 407, 731	5, 445, 573

¹ Largely in tomato sauce.

² Includes a few cases of ³/₄-pound cans, 50 to the case, which have been converted to the basis of ¹/₄-pound cans, 100 to the case. ³ Includes a few cases of 50 cans each which have been converted to a basis of 48 cans to the case.

4 Largely in oil. ⁵ Includes a few cases packed round, 24 cans each, which have been converted to a basis of 100 cans to the case.

⁶ Includes a few cases of 48 cans each, which have been converted to a basis of 100 cans to the case.

SHAD AND ALEWIVES

Shad and shad roe were canned at 7 plants in Washington, 11 in Oregon, and 1 in California. The total pack amounted to 9,686 cases of various sizes, valued at \$93,393, as compared to 3,409 cases, valued at \$52,483, in 1923. Alewives and alewife roe were packed at 8 plants in Maryland, 22 in Virginia, and 3 in North Carolina. The total pack amounted to 92,142 cases, valued at \$337,363, as compared with 43,920 cases, valued at \$171,350, in 1923.

Shad		ngton, n, and ornia	Alewives	Maryland, Virginia, and North Carolina		
1/2-pound flat and oval (48 cans) 1-pound tall (48 cans) Roe: 1/2-pound flat (48 cans) 1/2-pound oval (48 cans)	Cases 1, 774 5, 583 228 2, 101	Value \$3,712 16,749 4,104 68,828	No. 1 and No. 2 (24 cans) Roe: No. ½, No. 1, and No. 2 (24 cans)	Cases 1 3, 306 1 88, 836	Value \$5, 118 332, 245	
Total	9, 686	93, 393	Total	92, 142	337, 363	

Pack of shad and alewives, 1924

¹ The pack of alewives and alewife roe has been reduced to the equivalent of No. 2, 15-ounce cans, 24 to the case.

TUNA AND TUNALIKE FISHES

In 1924, 19 plants were canning tuna and tunalike fishes. All of them were in California, just as in 1923. The total production amounted to 708,752 cases of various sizes, which were equivalent to 652,416 standard cases of 48 half-pound tins, valued at \$5,756,586. This is a decrease of 20.2 per cent in quantity and 16.8 per cent in value, as compared to the pack of the previous year.

The pack of tuna and tunalike fishes includes albacore (put up under the name of "white-meated tuna"), yellowfin and bluefin tuna, striped tuna or skipjack, "tonno," bonito, and skipjack. "Tonno" is prepared from striped tuna and the blue and yellowfin tunas, but mostly from the first named. It consists of a highly seasoned and spiced pack put up in oil after the Italian method. The 1924 pack shows a decided increase of the albacore, of which there was an unusually large run in the southern waters. The pack might have been larger but for a fishermen's strike occurring at the height of the season. The packs of the other tunas were considerably smaller than in 1923, especially that of the yellowfin tuna, which is caught largely in waters off the coast of Mexico. The average price received for all kinds of tuna was \$8.80 per standard case, as compared with \$8.45 in 1923.

Sizes			Alba	core		Yello	wfin		Blu	efin			luefin, lowfin
¼-pound round (48 cans). ½-pound round (48 cans). 1-pound round (48 cans)		45 292	ses 773 268 833	\$27 2, 80	4,924	Cases 5, 234 26, 307 2, 405	Value \$21, 97 172, 44 27, 84	79 18	Cases ¹ 5, 373 ¹³ , 922 2, 370		3 6 2 8,4	21 64	Value \$2,484 59,248 13,559
Total		388	, 874	4,02	4, 509	33, 944	222, 27	73	21, 665	157, 48	10, 1	28	75, 291
Sizes	Tuna,	striped		Tor	nno"	В	onito	1	Yello	wtail	1	Fota	al
¼-pound round (48 cans ½-pound round (48 cans). 1-pound round (48 cans)	¹ 6, 219 33, 923		1 160 3 2 15,	,819	Value \$728, 016 120, 246 13, 605	5 1 15,31	9 \$64,7	72 134	i 10,365		239, 356 406, 054	\$1,	
Total	43, 205	239, 19	8 177,	049	861, 861	20, 54	8 94,8	806	13, 329	81, 164	708, 752	5,	756, 586

Pack of tuna and tunalike fishes, 1924

¹ Includes the pack of 100 cans to the case, which has been converted to the equivalent of 48 cans to the case. ² Includes the pack of 50 cans to the case, which has been converted to the equivalent of 48 cans to the case.

³ Includes a few cases of ½-pound round, which have been converted to a basis of ½-pound round.

SHRIMP AND CRABS

In 1924, 94 canneries were engaged in canning shrimp, 30 of these being in Louisiana, 26 in Mississippi, 12 in Georgia, 9 in Florida, 7 in Alabama, 5 in Texas, 3 in North Carolina, 1 in South Carolina, and 1 in New York. The total pack of shrimp amounted to 752,471 cases of various sizes, which were equivalent to 718,517 standard cases of 48 No. 1 cans, valued at \$4,608,950. This is an increase of 2.6 per cent in quantity and 5.2 per cent in value, as compared with the production in 1923.

Crabs were canned at 1 plant in Alaska, 1 in Maine, 1 in Maryland, 2 in Virginia, and 1 in Mississippi, making a total of 6 plants, as compared with 9 in 1923. The total pack amounted to 3,563 cases of various sizes, valued at \$35,944. Compared with 1923, when the pack amounted to 4,138 cases of various sizes, valued at \$47,023, this is a distinct decrease.

Pack of shrimp and crabs, 1924

Shrimp	Georgia, North Carolina, and South Carolina			Florida			Alabama		
No. 1 dry (4 dozen) No. 1 wet (4 dozen) No. 1½ dry (2 dozen) No. 1½ wet (2 dozen)		Cases 20, 107 61, 997 5, 311 1, 146	Value \$126, 41 385, 74 32, 06 7, 00	6 8 5	Cases 2, 245 34, 346 1, 162 888		985	Cases 26, 467 22, 167 4, 501 388	Value \$160, 519 132, 353 28, 200 2, 250
Total		88, 561	551, 23	7	38, 641	250, 9	969	53, 523	323, 322
Shrimp	Mis	sissippi	Lou	isia	na and 7	rexas	(110 19 X	Tot	al
No. 1 dry (4 dozen) No. 1 wet (4 dozen) No. 1½ dry (2 dozen) No. 1½ wet (2 dozen)	Cases 18, 757 90, 638 4, 704 232	Value \$110, 90 548, 66 29, 51 1, 40	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c c} 9 & \$1, 41 \\ 1 & 88 \\ 5 & 13 \end{array} $	<i>lue</i> 7, 661 4, 131 8, 993 5, 152	30 34	Cases 04, 135 41, 399 37, 903 5, 098	Value \$1, 829, 487 2, 174, 825 236, 211 31, 432
Total	114, 331	690, 48	39 393	, 479	9 2,45	5, 937	2 68	88, 535	² 4, 271, 954
c	rabs						-	Maryla	, Maine nd, Virgin Mississipp
7½, 8, 9, and 12 ounce (4 dozen) 15, 16, and 17 ounce (2 dozen)								Cases ³ 3, 004 ⁴ 559	Value \$29, 572 6, 372
Total							-	3, 563	35, 94

¹ Includes a few cases packed 4 ounces to the can, which have been converted to the equivalent of No. 1 5-ounce cans.

² In addition to the above there were packed in 5¼, 5¾, 6¼, 14, and 18 ounce glass jars in Florida, Alabama, Mississippi, New York, and Texas, 63,936 cases of shrimp, valued at \$336,996, making a total of 752,471 cases, valued at \$4,608,950.
³ The 8, 9, and 12 ounce cans have been converted to the equivalent of 7¼-ounce cans, 4 dozen to the case.
⁴ The 16 and 17 ounce cans have been converted to the equivalent of 15-ounce cans, 2 dozen to the case.

CLAMS

The pack of clams of all kinds in 1924 amounted to 389,435 cases of various sizes, valued at \$2,161,389. Razor clams were canned at 19 plants in Washington, 4 in Oregon, and 13 in Alaska, the total pack amounting to 113,717 cases of various sizes, valued at \$863,684. This is a decrease as compared with the previous year, when 130,389 cases, valued at \$883,844, were packed. The decrease occurred entirely in the Pacific Coast States, Alaska's pack being larger than in 1923.

Hard clams were packed at 2 plants in Florida, 1 in Georgia, 1 in Rhode Island, and 4 in Washington. The pack, exclusive of chowders, bouillon, and juices, amounted to 38,544 cases, valued at \$271,911. Soft clams were packed in 19 plants in Maine and 2 in Massachusetts, the pack, exclusive of chowders, etc., amounting to 80,561 cases of various sizes, valued at \$459,882. The chowders, soups, bouillon, and juices of both hard and soft clams totaled 156,613 cases of various sizes, valued at \$565,912.

U. S. BUREAU OF FISHERIES

Pack of clams, 1924

RAZOR CLAMS

Sizes		gton and egon	A	laska	То	tal
Whole: No. 1 (4 dozen) and No. 2 (2 dozen) 1-pound (4 dozen) 5-pound (½ dozen)	Cases 1, 490 1, 628	Value \$11, 333 19, 686	Cases 8, 020 1, 200	Value \$75, 315 7, 650	Cases 1, 490 9, 648 1, 200	Value \$11, 333 95, 001 7, 650
10-pound (1/2 dozen) Minced: 1/2-pound flat (4 dozen) No. 1 (4 dozen) No. 2 (2 dozen)	12, 132 14, 210	87, 064 110, 131 4, 231	65 52, 131 21, 074	585 354, 961 185, 456	65 64, 263 35, 284 677	585 442, 025 295, 587 4, 231
1-pound (4 dozen) 10-pound (½ dozen) Juice: No. 2 (2 dozen)	140	1, 269 558	645 26	5, 172 273	785 26 279	6, 441 273 558
Total	30, 556	234, 272	83, 161	629, 412	113, 717	863, 684

HARD CLAMS

Sizes	Florida and V	Washington
Whole: 1-pound (4 dozen) No. 1 (4 dozen) No. 2 (2 dozen) No. 10 (1/2 dozen) Minced: No. 1 (4 dozen) No. 2 (2 dozen	Cases 2, 074 11, 010 14, 179 2, 800 1 5, 402 2 3, 079	Value \$18, 043 82, 458 81, 267 38, 071 34, 943 17, 129
Total	38, 544	271, 911

SOFT CLAMS

Sizes	Rhode Islan and Massa	
Whole: 5-ounce (4 dozen) 8-ounce (4 dozen) 10-ounce (2 dozen)	Cases ³ 57, 991 ⁴ 17, 477 5, 093	Value \$294, 639 140, 804 24, 439
Total	80, 561	459, 882

OTHER HARD AND SOFT CLAM PRODUCTS

Sizes	Maine, Flo sachusetts Rhode Is Washingto	, Georgia, land, and
Chowder and soup: No. 1 (2 dozen) No. 1½ and No. 2 (2 dozen) No. 3 (2 dozen) No. 10 (½ dozen) Bouillon and juice: 10-ounce (4 dozen)	Cases ⁵ 78, 719 ⁶ 24, 355 43, 612 2, 022 ⁷ 7, 905	Value \$179, 711 89, 036 239, 274 10, 261 47, 630
Total	156, 613	565, 912

¹ Includes the pack of ½-pound flat cans which has been converted to a basis of No. 1 cans, 4 dozen to the case. ² Includes a few cases of No. 10 cans, ½ dozen to the case, which have been converted to a basis of No.

2 cans, 2 dozen to the case.

² Includes a few cases of 4-ounce cans converted to a basis of 5-ounce cans. ⁴ Includes the pack of 6, 8, and 8½ ounce cans, 2 dozen to the case, which has been converted to a basis of 8-ounce cans, 4 dozen to the case. ⁴ Includes a few cases of No. ½ cans, 2 dozen to the case, which have been converted to a basis of No. 1 cons. ² dozen to the case.

and a dozen to the case. ⁶ The pack of No. 2 cans, 2 dozen to the case, has been reduced to the equivalent of No. 1½ cans, 2 dozen ⁶ The pack of No. 2 cans, 2 dozen to the case, has been reduced to the equivalent of No. 1½ cans, 2 dozen

The pack of clam bouillon and juice has been converted to the equivalent of 10-ounce cans, 4 dozen to the case.

OYSTERS

Oysters were canned at 9 plants in Maryland, 6 in North Carolina, 13 in South Carolina, 6 in Georgia, 6 in Florida, 5 in Alabama, 21 in Mississippi, 6 in Louisiana, and 1 in Texas. The total pack amounted to 460,427 cases of various sizes, which were equivalent in quantity to 447,481 standard cases of forty-eight 5-ounce tins, valued at \$2,478,044. This is a decrease of 14.7 per cent in quantity and 8.9 per cent in value, as compared with the previous year. The average price per standard case of oysters has increased constantly since 1922, the figures being \$4.79, \$5.19, and \$5.54 in 1922, 1923, and 1924, respectively.

Sizes		愛口的	Maryland		North Carolina		South (Carolina	Ge	orgia
6-ounce (4 dozen) 8-ounce (2 dozen) 10-ounce (2 dozen)			Cases 7, 343 40, 715 7, 684 3, 138 9, 092 723	Value \$42, 441 260, 370 82, 446 17, 618 57, 255 7, 925		Value \$3, 337 167, 958 19, 318	Cases ¹ 12, 855 72, 387 104 2, 195 16, 267	365, 300 1, 040 10, 293	12, 12	
Total			68, 695	468, 055	36, 857	190, 613	103, 808	510, 829	12, 22	6 65, 621
Sizes	Flo	orida	Ala	abama	Miss	issippi		siana Fexas	Т	otal
4-ounce (4 dozen)	Cases		Cases		32,035	Value \$155, 553		Value	Cases 52, 901	
5-ounce (4 dozen) 6-ounce (4 dozen)	12,608	\$67, 163	9, 922	\$49, 89	5 120, 189	632, 762	2 7,585	\$44,315 13,600	307, 747 9, 788	1,652,810 97,086
8-ounce (2 dozen) 10-ounce (2 dozen) 12-ounce (2 dozen)	278 400	1, 251 2, 000	1, 500	7, 500		81, 393 187, 493	3		22, 341 66, 927 723	110, 555 347, 236 7, 925
Total	13, 286	70, 414	11, 422	57, 390	3 204, 548	1,057,201	9, 585	57, 915	460, 427	2, 478, 044

Pack of oysters, 1924

¹ Includes pack of 3-ounce cans converted to the equivalent of 4-ounce cans, 4 dozen to the case.

MISCELLANEOUS CANNED PRODUCTS

During 1924 there were produced miscellaneous canned fishery products, not mentioned above, as follows: In Maine, Massachusetts, New York, New Jersey, Maryland, Virginia, North Carolina, Georgia, Florida, and Oregon, 5,836,164 pounds of canned fish, turtles, and terrapin, valued at \$1,083,941, and 956,428 pounds of fish roe, valued at \$251,695; and in California 33,294 cases of tuna flakes, abalone, barracuda, mackerel, squid, and "tuniento," valued at \$193,909.

Comparative statistics of canned fishery products from 1921 to 1924.

AT AT AN AND THE AS	Salmon									
Year	Pacific Co	oast States	Al	aska	Total					
1921 1922 1923 1924	Cases 1, 002, 948 733, 246 1, 367, 263 958, 662	Value \$9, 234, 425 8, 633, 524 12, 660, 566 9, 394, 467	Cases 2, 596, 826 4, 501, 652 5, 035, 697 5, 294, 915	Value \$19, 632, 744 29, 787, 193 32, 873, 007 33, 007, 135	Cases 3, 599, 774 5, 234, 898 6, 402, 960 6, 253, 577	Value \$28, 867, 169 38, 420, 717 45, 533, 573 42, 401, 602				

Comparative statistics of canned fishery products from 1921 to 1924-Continued

Year	Maines	sardines	Californi	a sardines	Tuna and tunalike fishes		
1921 1922 1922 1923 1924	Cases 1, 399, 507 1, 869, 719 1, 272, 277 1, 899, 925	Value \$3, 960, 916 5, 750, 109 5, 288, 865 7, 191, 026	Cases 398, 668 715, 364 1, 100, 162 1, 367, 139	Value \$2, 346, 446 3, 361, 480 4, 607, 931 5, 445, 573	Cases 549, 150 672, 321 817, 836 652, 416	Value \$3,074,626 4,511,873 6,914,760 5,756,586	
Year	Oysters		Shr	imp	Other canned products	Total	
19 2 1 1922 1923 1924	Cases 442, 086 505, 973 524, 544 447, 481	Value \$2, 179, 271 2, 423, 616 2, 720, 073 2, 478, 044	Cases 655, 364 579, 797 700, 429 718, 517	Value \$3, 804, 781 3, 064, 087 4, 381, 534 4, 608, 950	Value \$2, 401, 497 2, 933, 065 2, 998, 469 4, 282, 808	Value \$46, 634, 706 60, 464, 947 72, 445, 205 72, 164, 589	

NOTE.—Cases have been converted to a standard basis, as follows: Salmon, forty-eight 1-pound cans; Maine sardines, one hundred ½-pound cans; California sardines, forty-eight 1-pound cans; tuna and tunalike fishes, forty-eight ½-pound cans; oysters, forty-eight 5-ounce cans; and shrimp, forty-eight No. 1 cans.

EXPORTS OF CANNED FISHERY PRODUCTS IN 1924

Statistics of the quantity of canned fish exported from the United States during the calendar year, collected and compiled by the Bureau of Foreign and Domestic Commerce, are given in the following table:

Domestic exports of canned fish from the United States, by countries, 1924

Countries	Salr	non ,	Sardi	nes	Tu	na	Other can	ned fish
Austria	Pounds	Value	Pounds 192	Value \$55	Pounds	Value	Poundš	Value
Azores and Madeira Islands								
Belgium	1, 337, 489	138, 779	997, 820	85, 530			203, 375	\$17, 467
Czechoslovakia			48	4				
Denmark		1,488						
France	42,659	7,855	15,930	1,432	48	\$10	160	
Germany		20, 820	7, 525	714			14, 878	2,091
Gibraltar		227						
Greece	494,062	57, 988	19,370	2,079		80		
Italy	107,880	10, 594	4,636	400			1,200	133
Italy Malta, Gozo, and Cyprus	1				1.31.16.64	5 - C - C - C - C - C - C - C - C - C -	-13-14-14 M	
Islands	1, 528	253						
Netherlands	622, 228	89,085	71,605	6,019	48	26		
Norway		2,628			130	35	390	78
Rumania	3,720	639	48	5	41	16		
Russia in Europe			631	5 109		1013 1.013		
Spain							3,800	1,001
Sweden	14, 160	2,223						
Switzerland								
Turkey in Europe		1,280						
England		5, 865, 023	639, 897	59, 261	830	229	46, 122	13,677
Scotland	391, 100	60, 689	6,900	602	72	39		
Ireland		36, 621						
Canada		264,052	3,047,793	291, 790	95, 593	28, 129	596,077	63, 966
British Honduras		2,763	39, 325	4, 501			130	13
Costa Rica	139,776	13, 793	231,564	20, 156	96	31	12,743	819
Guatemala		8,043	258, 516	24, 589	95	26	9, 512	669
Honduras	52, 478	6,715	112,614	16,950	644	247	1, 598	423
Nicaragua		13,208	163, 590	18, 327	1,266	319	9,123	571
Panama	277, 357	36, 579	200, 661	21,823	5,669	2,010	4,259	1,051
Salvador	5,814	729	127,077	10,464	25	10	933	185
Mexico	2, 482, 065	227, 473	2, 721, 796	262, 791	2,612	964	109,847	13,004
Newfoundland and Lab-						1.1.1		
_ rador	96				50	24	110	41
Bermuda	46, 485	8,943	23, 461	3,684		397		381
Barbados	43, 024	7,222		62	-,		-,	
Jamaica	52, 956			2.207	111	37	497	137

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Domestic exports of canned fish from the United States, by countries, 1924-Contd.

Countries	Salı	non	Sard	lines	Τι	ina	Other can	ned fisl
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Trinidad and Tobago	37, 910	\$7,082		\$454	- oundo	ratat	60	\$3
Other British West Indies	45, 744	7,771	17, 593	2, 849	36	\$26		52
Dutch West Indies	37,026	6,901	3, 229	. 367	349		798	13
Cuba	647, 574	66, 161	3, 229 2, 327, 454	181, 880	2, 240		88, 406	8, 33
Dominican Republic	230, 416	23, 643	116, 428	18, 450	481			1,03
French West Indies	2,068	181	110, 120	10, 100	101	104	0,000	1,00
Haiti	5, 365	897	1, 582	290	157	53	117	6
Virgin Islands of the United	0, 300	091	1, 002	290	107	00	117	0
States	37, 989	4, 496	18,685	2, 538	146	26	1,816	24
Argentina	218, 068	24, 048	4, 133, 186	351, 699	140	20	175, 865	9,82
Bolivia	25, 918	24,048		34, 348			175, 805	9,02
Brazil	13, 033	2, 890		160			100	0
Chile	154,006	23, 192	699, 582	58,473	27	12	6 720	48
							6,730	
Colombia	558, 147	64, 456		13, 415	7, 523		3,608	74
Ecuador	112, 538	12, 611	556, 354	46, 734	124	60	8,614	2, 55
Falkland Islands	48	11 010						
British Guiana	58,742	11, 819	66, 779	7, 382			12,632	1,40
Dutch Guiana	42, 346	4, 957		1, 923	26	12		
French Guiana	12, 586	1,470						
Paraguay	720	109						
Peru	226, 972	23, 285		48,061	1, 134	467	6, 899	1, 68
Uruguay	18, 130	2, 424		1, 108				
Venezuela	957, 426	103, 093		36, 853	2, 384		1,786	56
Aden	1, 340	188			35	12		
Armenia and Kurdistan			4, 500	400				
British India	439, 559	74, 608		125, 723	1,300	446	849	24
Ceylon	134, 750	19, 412		3, 755	786		490	9
Straits Settlements	175, 130	18, 210	10, 595, 759	805, 326	48	24	214, 524	13, 61
Other British East Indies			2,880	260				
China	100, 425	17, 828	572, 114	53, 497	4, 576	1,677	55, 814	4,05
Chosen	768	112		572	300	105	36	1
Java and Madura	260, 822	32, 483	3, 113, 243	254,080	97	43	11,050	4, 58
Other Dutch East Indies	79, 128	10,400		55, 888				
French Indo-China			182, 788	17,031			2,231	58
Hejaz, Arabia	1,680	144			2000000		550	18
Hongkong	59,852	9, 327	772, 880	66,051	230	114	17,398	1, 22
Japan	249, 350	27, 847	87, 697	8,278	620	275	36,488	5, 22
Kwangtung	144	38		10,750				
Palestine and Syria	14, 269	1,601						
Persia	,	-,	699 97 97 9C	20074	234	81		
Philippine Islands	7, 884, 986	793, 939	15, 417, 030	1,210,034	2,794		432, 768	33, 13
Siam	3, 469	1, 386	111, 344		-,	010	102, . 00	00, 10
Turkey in Asia	9,600	1, 280	111,011	. 0,010				. Y
Australia	7, 167, 084	1, 186, 765		875	4,240	905	2,055	79
British Oceania	23, 464	3,016	11, 361	1,000				14
French Oceania	246, 556	27, 170		12,670			919	198
New Zealand	102,078	17, 289	3, 300	12,010			3, 438	212
Other Oceania	59, 381	7, 218	5, 507	678			758	11
	1, 587	338	0,001	010	28	11		11
Belgian Kongo	75, 162	6, 820		37	40		149	3
British West Africa	980, 445	105, 558			191	47	6, 220	93
British South Africa				1, 407	27	13		90.
British East Africa	15, 816	2, 120			21	10		
Canary Islands	8, 388	695		1 007		10		10
Egypt	27, 376	4, 499	7, 529	1, 297	36		96	10
Other French Africa	636	92		35				
Liberia	3,164	323					65	1
Portuguese East Africa	45, 648	4, 505					341	14
Other Portuguese Africa	444	75	120	35				
Spanish Africa	6, 120	639						
Ref and the second second second second	67, 013, 369		51, 260, 836			42, 927	2, 148, 323	214, 97
Total								

COMPARATIVE STATISTICS OF EXPORTS OF CANNED FISH

The exports of canned fish from the United States have been growing steadily for the last three years, as may be seen in the following table. Exports of canned sardines are particularly conspicuous in this respect, those in 1924 having increased over 150 per cent as compared with those of 1922 and over 50 per cent as compared with 1923. The tuna exports also are on the increase, those in 1924 being in excess of the 1923 exports by 80 per cent.

Year	Salmon		St	ardines	г	Tuna		
1922 1923 1924	Pounds 63, 797, 279 59, 594, 422 67, 013, 369	Value \$7, 962, 375 9, 154, 711 9, 667, 126	33, 660, 9	45 \$1, 780, 9 37 2, 919, 9	956 (1) 767 76, 342			
Ye	ear		Oth	ler	Tot	tal		
1922 1923 1924			Pounds 4, 559, 142 2, 033, 468 2, 148, 323	Value \$528, 409 228, 971 214, 977	Pounds 88, 416, 266 95, 365, 169 120, 561, 315	Value \$10, 271, 740 12, 327, 441 14, 203, 577		

Domestic exports of canned fish, 1922 to 1924

¹ Not shown separately in 1922.

BY-PRODUCTS OF THE FISHERIES

The by-products of the fisheries include a variety of materials, such as fish oils, fish scrap and meal, shrimp bran, crushed oyster shells for poultry grit, lime from oyster shells, liquid glue, scales from which pearl essence is extracted, and others. Their production is important in providing a more complete utilization of marine products, or, stated differently, the production of a greater number and volume of products without taking more fish or shellfish from the sea.

If we include the production of materials in the menhaden and whale industries, the total value of by-products in 1924 amounted to \$10,308,990, as compared to \$12,634,590 in 1923. The decrease is due to a failure of the menhaden industry. Other by-products have increased, compared with former years, as may be seen in the following table, which summarizes the statistics on by-products for the years 1921 to 1924.

Year	Menhaden industry									
,	Dried scra	p and meal	Acidula	ted scrap	Oil .					
1921 1922 1923 1924	<i>Tons</i> 37, 858 67, 821 43, 452 21, 008	Value \$1, 380, 455 2, 665, 441 2, 029, 406 996, 866	Tons 44, 804 25, 755 44, 935 24, 409	Value \$905, 640 556, 317 1, 064, 870 495, 684	Gallons 6, 260, 478 7, 102, 677 7, 461, 365 3, 923, 904	Value \$1, 719, 892 2, 904, 833 3, 316, 277 1, 817, 626				
Year		i here	Miscellaneo	ous by-produ	ets	Sector 1				
	Dried scrap and meal		Crude or a	green scrap	Shrimp bran					
1921 1922 1923 1924	<i>Tons</i> 22, 173 21, 638 22, 636 30, 847	Value \$1, 232, 906 1, 090, 346 1, 257, 098 1, 373, 351	<i>Tons</i> 1, 810 390 1, 593 4, 097	Value \$21, 327 9, 175 13, 721 15, 217	<i>Tons</i> 628 562 1, 269 936	Value \$16, 814 15, 398 48, 290 31, 580				
Year	Fish and	whale oils	Crushed o	yster shell	Other by- products	Total				
1921 1922 1923 1924	Gallons 1, 185, 803 3, 432, 796 3, 912, 436 5, 287, 391	Value \$358, 778 1, 325, 927 1, 787, 917 2, 494, 107	<i>Tons</i> 185, 474 236, 021 224, 983 219, 211	Value \$1, 759, 120 2, 005, 838 1, 986, 249 2, 019, 254	Value \$956, 895 817, 418 1, 130, 762 1, 065, 305	Value \$8, 351, 827 11, 390, 693 12, 634, 590 10, 308, 990				

Comparative statistics of fishery by-products from 1921 to 1924

FISH SCRAP AND MEAL

In 1924 the production of fish scrap and meal of all kinds amounted to 81,297 tons, valued at \$2,912,898. The total value in 1923 was \$4,413,385. The decrease was due almost entirely to the small production of menhaden scrap and meal. Noteworthy increases occurred in the production of all other fish scrap and meal excepting shrimp bran, which was produced in lesser amounts than in 1923.

FISH OILS

In 1924 there were produced 3,923,904 gallons of menhaden oil, valued at \$1,817,626; 4,044,555 gallons of other fish oils, valued at \$1,832,836; 1,141,695 gallons of whale oil, valued at \$619,475; and 101,141 gallons of sperm oil, valued at \$41,796, making a total of 9,211,295 gallons, valued at \$4,311,733. The production of sardine and herring oils was greatly increased as compared with 1923, while a considerable decrease took place in the production of menhaden oils.

LIQUID FISH GLUE

In 1924 the production of liquid fish glue was 502,940 gallons, valued at \$550,391, an increase of 8 per cent in quantity and a decrease of 19 per cent in value, as compared with the production in 1923, which was 465,814 gallons, valued at \$680,504.

Products	chusett	Maine, Massa- chusetts, and New York		Maryland and Virginia		North Carolina, Georgia, and Florida		issippi nd siana
Fish scrap and meal: Driedtonsdodo	Quantity 2, 780 354	Value \$119, 539 7, 255	Quan- tity 2,375	Value \$48, 894	Quan- tity	Value	Quan- tity	Value
Pomacedo Shrimp brando Oil:	3, 543	6, 262			192	\$8, 890	744	\$22, 690
Herringgallons Spermdo	$75, 587 \\ 13, 391$	24, 290 6, 696	56, 743	21,000				
Cod-liver, crudedo Miscellaneousdo Liquid gluedo	106, 415 511 502, 940	65, 916 41 550, 391	2,650	1, 191	38, 610	16,005		
	1, 882, 627	140, 527	141,000	9,750	169, 268	24, 826		
Total		920, 917		80, 835		49, 721		22, 690

Production of various by-products of the fisheries, 1924

Products		ashington, I California	India Wiscons Pennsy	in, and	Total	
Fish scrap and meal: Driedtons	Quantity 25, 692	Value \$1, 204, 918	Quantity	Value	Quantity 30,847	Value \$1, 373, 351
Acidulateddo			200	\$1,700	554	8,955
Pomacedo Shrimp brando					3, 543 936	6, 262 31, 580
Oil: Salmongallons	169, 561	76, 554	and the second	1.4	169, 561	70
Sardinedo	2, 338, 711	1,076,903			2, 338, 711	76, 554 1, 076, 903
Tunado	35,408	10,801			35, 408	10, 801
Herringdo	1, 171, 672	514, 909	20,000	11,200	1, 324, 002	571, 399 🜌
Whaledo	1, 141, 695	619, 475			1, 141, 695	619, 475
Spermdo Cod-liver, crudedo	87, 750	35, 100			$101, 141 \\ 106, 415$	41,796
Miscellaneousdo	25, 516	12,758	3,171	1,268	70,458	31, 263
Liquid gluedo					502, 940	550, 391
Miscellaneous by-products 1do	49, 500	619			2, 242, 395	175, 722
Total		3, 552, 037		14, 168		4, 640, 368

¹ Includes shark hides and fins, herring skins and scales, isinglass, and whale tails.

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SHELL BY-PRODUCTS

In 1924 the by-products of the oyster industry, consisting of crushed oyster shells for poultry grit, lime dust, and lime, amounted to 289,480 tons, valued at \$2,355,638, as compared with 308,791 tons, valued at \$2,358,535, in 1923. In addition to the oyster-shell products there were 234 tons of crushed marine clam shells, valued at \$2,808.

States	Poultry grit		Lime		Total	
Rhode Island, New York, New Jersey, and Pennsylvania Maryland. Virginia. North Carolina, South Carolina, and Georgia. Florida and Alabama Mississippi. Louisiana. Texas.	$\begin{array}{c} Tons \\ 12, 634 \\ 70, 961 \\ 22, 019 \\ 6, 472 \\ 16, 565 \\ 30, 266 \\ 56, 288 \\ 4, 006 \end{array}$	Value \$158,044 708,042 226,126 72,098 141,185 257,920 419,785 36,054	Tons 3, 695 28, 309 28, 968 3, 131 693 1, 400 3, 478 595	Value \$14, 438 88, 516 205, 663 17, 625 1, 408 750 6, 251 1, 733	<i>Tons</i> 16, 329 99, 270 50, 987 9, 603 17, 258 31, 666 59, 766 4, 601	Value \$172, 482 796, 558 431, 789 89, 729 142, 593 258, 670 426, 036 37, 787
Total	219, 211	2, 019, 254	70, 269	336, 384	289, 480	2, 355, 63

Production of oyster-shell by-products, 1924

MENHADEN INDUSTRY

In 1924 there were in operation 16 menhaden factories in Virginia, 14 in North Carolina, 3 in New Jersey, 3 in Delaware, 3 in Florida, 2 in Texas, 2 in New York, 1 in Connecticut, and 1 in Georgia, making a total of 45 plants, as compared to 52 in 1923.

There were produced 21,008 tons of dry scrap and meal, valued at \$996,866, 24,409 tons of acidulated scrap, valued at \$495,684, and 3,923,904 gallons of oil, valued at \$1,817,626, making a total production valued at \$3,310,176, as compared to \$6,410,553 in 1923. The decrease, amounting to 48 per cent, is due largely to a shortage of fish and has placed the menhaden industry in a precarious position economically.

Products	Connecticut and New York		New Jers Delav		Virginia		
Fish utilized: Menhaden.number.	<i>Quantity</i> 78, 797, 100	<i>Value</i> \$475, 814	Quantity 86, 478, 000	Value \$513, 141	Quantity 137, 175, 493	Value \$630, 320	
Manufactured products: Dry scrap and fish meal_tons Acidulated scrapdo	976 5, 423	50, 800 117, 037	376 7, 960	17, 331 185, 852	10, 100	521, 351	
Total	6, 399	167, 837	8, 336	203, 183	10, 100	521, 351	
Oilgallons	676, 143	272, 607	623, 247	282, 448	1, 408, 312	686, 581	
Grand total		440, 444		485, 631		1, 207, 932	

Products of the menhaden industry, 1924

Products	North Carolina Georgia, Flo			Total		
Fish utilized: Menhaden	Quantity 115, 876, 333	Value \$452, 643	Quantity 95, 530, 380	Value \$314, 219	Quantity 1 513, 857, 306	Value \$2, 386, 137
Manufactured products: Dry scrap and fish meal tons Acidulated scrapdo	5, 858 3, 875	252, 350 99, 613	3, 698 7, 151	155, 034 93, 182	* 21, 008 24, 409	996, 866 495, 684
Total	9, 733	351, 963	10, 849	248, 216	45, 417	1, 492, 550
Oilgallons	783, 379	382, 787	432, 823	193, 203	3, 923, 904	1, 817, 626
Grand total		734, 750		441, 419		3, 310, 176

Products of the menhaden industry, 1924-Continued

¹ 308,314,384 pounds. ² Of this quantity 1,750 tons, valued at \$101,067, were reported as fish meal.

COLD-STORAGE HOLDINGS OF FROZEN FISH

The statistics of the cold-storage holdings of frozen fish_and the quantities of fish frozen are collected by the Bureau of Agricultural Economics, Department of Agriculture, and in 1924, as in previous years, were published monthly and disseminated to the frozen-fish trade by the Bureau of Fisheries. A summary of the statistics for the year is herewith presented. Statistics for previous years are also given for comparison. It will be found that in some cases they do not correspond to totals previously published, for in the past there has been some variation with respect to dividing the year at January 15 or December 15. The statistics here given have been put upon a uniform basis by dividing each year, so as to begin with the report for the month ending January 15 and end with that for the month ending on December 15 of each year.

During 1924 cold-storage holdings were rather larger than during the previous year. They varied between 21,488,525 and 70,405,786 pounds, the smallest holdings being recorded in April and the largest in November. The average monthly holdings during the year were 45,040,533 pounds, as compared with the average in 1923 of 36,-202,434 pounds, an increase of 24.4 per cent. Compared with the five-year average, the monthly holdings in 1924 were only slightly high, being 0.5 per cent above the five-year average. The following tables give the summaries of the statistics of the cold-storage holdings of the United States in 1924 and previous years.

				Increase (+) or de- crease (-)		
Month January February March April May June July September October November	1924	1923	Five-year average	Compared with 1923	Compared with five- year average	
	Pounds 52, 627, 290 40, 420, 614 29, 570, 628 21, 488, 525 21, 488, 525 21, 488, 525 21, 839, 714 27, 115, 359 36, 036, 010 49, 026, 140 56, 606, 759 67, 024, 996 70, 405, 786 768, 324, 572	Pounds 40, 032, 255 27, 069, 882 16, 723, 513 10, 589, 532 12, 312, 003 17, 779, 934 27, 237, 105 39, 100, 868 53, 220, 388 53, 220, 388 62, 616, 212 63, 457, 565 64, 289, 045	Pounds 56, 880, 000 44, 400, 000 31, 119, 000 22, 852, 000 29, 506, 000 37, 862, 000 46, 209, 000 64, 941, 000 63, 553, 000 65, 101, 000 62, 430, 000	$\begin{array}{c} Per \ cent \\ +31.46 \\ +49.32 \\ +77.82 \\ +77.82 \\ +52.51 \\ +32.30 \\ +25.38 \\ +6.36 \\ +7.04 \\ +10.95 \\ +6.28 \end{array}$	Per cent -7.48 -9.13 -4.98 -5.97 -3.12 -8.10 -4.822 +6.10 +3.00 +5.44 +8.14 +9.44	
Average for year	45, 040, 533	36, 202, 434	44, 790, 000	+24.41	+. 55	

Comparative statement of monthly cold-storage holdings of frozen fish in 1924 and 1923, and the five-year average

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Monthly holdings of frozen fish in the United States in 1924, by species, and in 1917 to 1923, by totals

and growing the			Month	ended-	and group 1	
Species	Jan. 15	Feb. 15	Mar. 15	Apr. 15	May 15	June 15
and the second second	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	422, 210	252, 617	177, 324	149,774	107, 891	115, 38
Butterfish (all trade sizes)	409, 825	221, 176	130, 889	55, 812	42,778	170, 80
Catfish	236, 109	170, 876	111, 494	86, 557	162, 519	162, 61
Ciscoes (including bluefin,	200, 200				A CONTRACTOR	Distant and
blackfin, chub, lake herring,					a second production	and the second
etc.)	10, 323, 849	8, 117, 715	5, 353, 289	3, 963, 579	3, 118, 078	2, 702, 21
Ciscoes (tullibees)	648, 304	778, 131	714, 642	726, 296	770, 802	751, 27
od, haddock, hake, pollock	1, 104, 551	881, 921	686, 803	387, 404	464, 035	476, 25
Croaker	249, 115	103, 637	52, 387	84, 540	296,056	303, 75
lounders	517,028	396, 187	325, 867	226, 210	214, 545	384, 09
Halibut (all trade sizes)	5, 533, 267	3, 753, 674	2, 309, 934	3, 341, 501	4, 074, 417	5, 647, 31
Herring, sea (including ale-	0.000 405			Mag. 000	1 007 100	
wives and bluebacks)	2, 309, 165	1, 742, 173	1, 744, 364	708, 029	1, 927, 109	2, 710, 16
ake trout	1, 232, 855	897, 434	745, 146	282, 200	269, 522	405, 68
Aackerel (except Spanish)	4, 355, 166	3, 266, 074	2,063,094	1, 225, 933	917, 815	1, 013, 86
ike perches and pike or pick-	0 461 107	0 200 771	1 220 452	E49 999	888, 041	800 10
erel	2,461,107	2, 320, 771	1, 332, 453	543, 328	466, 759	892, 12
ablefish (black cod)	1, 915, 018	1, 522, 302	1, 322, 127	964, 102	400, 709	378, 36
almon: Silver and fall	2, 598, 415	1, 834, 964	1, 414, 845	921, 449	726, 383	725, 20
Steelhead trout	697, 411	1, 834, 904	105,674	63, 757	46, 785	61, 91
All other	2, 985, 058	2, 355, 794	1, 662, 583	1, 189, 857	864, 086	1, 179, 16
cup (porgies)	679, 400	468, 128	174, 787	87, 036	32, 414	76, 48
had and shad roe	461, 483	580, 256	144, 189	107, 366	215, 599	409.00
shellfish	781, 215	714, 943	450, 213	243, 944	323, 213	400, 55
melts eulachon etc	442, 654	789, 531	1, 266, 708	537, 035	273, 161	225, 77
queteagues or "sea trout" quid	769, 540	375, 837	132, 256	39,042	166, 433	213, 04
auid	580, 280	326, 997	180,008	37,905	166, 656	1, 660, 08
turgeon and spoonbill cat	299, 144	188, 510	133, 217	54, 404	153, 400	272, 87
uckers	32, 173	32, 271	21,600	16,092	35, 434	49, 15
Vhitefish	1, 381, 207	1, 463, 003	1, 981, 538	1, 440, 949	1,073,506	1, 025, 57
Vhiting	3, 792, 699	2, 244, 524	1, 446, 557	1, 150, 959	932, 085	1, 007, 42
fiscellaneous frozen fish	5, 409, 042	4, 439, 722	3, 386, 640	2, 853, 465	3, 110, 192	3, 695, 12
Total, 1924	52, 627, 290	40, 420, 614	29, 570, 628	21, 488, 525	21, 839, 714	27, 115, 35
otal, 1923	40, 032, 255	27, 069, 882	16, 723, 513	10, 589, 532	12, 312, 003	17, 779, 93
otal, 1922	48, 320, 212	37, 742, 262	25, 474, 714	17, 484, 975	17, 075, 917	20, 821, 34
'otal, 1921	53, 851, 000	42, 116, 000	33, 404, 000	28, 440, 000	26, 346, 000	32, 311, 00
'otal, 1920	61, 510, 357	47, 904, 057	29, 958, 132	20, 632, 834	19, 803, 817	27, 779, 23
'otal, 1919	80, 683, 761	67, 617, 473	50, 036, 475	37, 110, 856	37, 174, 104	48, 840, 35
Cotal, 1918	51, 116, 37	35, 907, 071	28, 457, 301	26, 548, 272	31, 403, 425	50, 298, 02
Fotal, 1917	32, 234, 530	14, 727, 099	13, 374, 429	9, 516, 217	14, 040, 024	27, 791, 04

Monthly holdings of frozen fish in the United States in 1924, by species, and in 1917 to 1923, by totals—Continued

he principal, species	T ine		Month	ended—		
Species	July 15	Aug. 15	Sept. 15	Oct. 15	Nov. 15	Dec. 15
7.528,339 manual-	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	101. 248	93, 478	88, 863	106, 662	124, 308	319, 914
Butterfish (all trade sizes)	322, 373	437,948	805, 413	849, 543	886, 686	735, 619
Catfish	227, 198	219, 699	185, 944	167, 556	305, 900	244, 35
Ciscoes (including bluefin, blackfin, chub, lake herring,		1200	gainab.	to shirt b	ail to as	i brockt
etc.)	2, 530, 838	3, 213, 024	5, 044, 751	7, 856, 427	8,090,621	9, 608, 58
Ciscoes (tullibees)	810,073	959, 611	732,078	785, 414	859, 784	712, 91
Cod, haddock, hake, pollock	622, 138	694, 717	709, 667	731, 717	887, 680	1, 041, 33
Croaker	378, 961	757, 897	616, 724	402, 952	278, 322	222, 975
Flounders	437, 565	395, 901	383, 913	345, 937	395, 178	474, 082
Halibut (all trade sizes) Herring, sea (including ale-	8, 376, 481	11, 735, 918	14, 107, 183	14, 609, 027	13, 663, 426	11, 458, 888
wives and bluebacks)	2, 781, 164	3, 661, 482	3, 317, 720	3, 653, 279	4, 453, 975	4, 632, 857
Lake trout	629, 748	653, 072	686, 986	928, 113	1, 816, 384	1, 952, 914
Mackerel (except Spanish) Pike perches and pike or pick-	2, 525, 839	3, 893, 770	4, 922, 247	4, 894, 724	4, 614, 956	4, 050, 396
erel	992, 344	790, 854	854, 279	906, 679	1, 254, 421	1, 892, 949
Sablefish (black cod)	442, 789	911, 705	1, 159, 867	1, 529, 649	1, 700, 014	1, 359, 316
Salmon:			1 Barris		A start in a start of	the detruit
Silver and fall	1, 259, 815	1, 928, 464	2, 508, 903	5, 782, 171	6, 219, 428	5, 155, 350
Steelhead trout	260, 840	892,099	903, 278	940, 952	700, 420	644, 716
All other	2, 109, 858	3, 506, 271	4, 620, 121	6, 119, 933	6, 281, 463	5, 718, 124
Scup (porgies)	218, 693	290, 971	254, 732	226, 179	191, 924	132, 473
Shad and shad roe	876, 921	796, 599	683, 414	717, 441	801, 357	879, 488
Shellfish	457, 114	489, 748 211, 776	542,485 271,425	766, 722	1, 108, 148	1, 310, 634 288, 818
Smelts, eulachon, etc Squeteagues or "sea trout" Squid	208,077 259,604	279, 359	256, 209	329,550 295,721	318,494 498,316	446. 157
Squeteagues of sea front	2, 117, 062	2, 281, 461	2, 230, 726			1, 850, 358
Sturgeon and spoonbill cat	369.353	508, 152	548, 563	2,558,046 543,181	2,429,721 530,900	554, 786
Suckers	49, 491	43, 784	38, 028	38, 435	37, 582	39,024
Whitefish	1, 149, 463	1, 306, 126	1, 351, 440	1, 410, 453	1.821.871	2, 134, 465
Whiting	1, 527, 493	3, 008, 257	3, 368, 558	3, 218, 372	3, 466, 747	3, 500, 248
Miscellaneous frozen fish	3, 993, 467	5, 063, 997	5, 413, 242	6, 310, 161	6, 667, 760	6, 962, 840
Total, 1924	36, 036, 010	49, 026, 140	56, 606, 759	67, 024, 996	70, 405, 786	68, 324, 572
Total, 1923	27, 237, 105	39, 100, 868	53, 220, 398	62, 616, 212	63, 457, 565	64, 289, 945
Total, 1922	25, 620, 042	32, 226, 170	41, 141, 144	54, 756, 783	54, 502, 283	48, 689, 830
Total, 1921	40, 160, 000	47, 431, 000	54, 469, 000	58, 899, 000	61, 228, 000	59, 125, 640
Total, 1920	36, 617, 706	47, 140, 132	56, 295, 975	64, 730, 531	67, 549, 377	65, 841, 000
Total, 1919	59, 674, 301	65, 145, 234	69, 580, 555	76, 763, 253	78, 769, 101	74, 202, 339
Total, 1918 Total, 1917	64, 864, 532 38, 431, 221	82, 554, 798	89, 203, 946	93, 811, 909	99, 631, 789	96, 600, 247 69, 986, 671
10tal, 191/	30, 431, 221	44, 024, 666	47, 197, 660	60, 676, 722	70, 938, 957	09, 980, 671

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QUANTITIES OF FISH FROZEN

The total quantity of fish frozen during the year ended December 15, 1924, was 97,324,144 pounds, as compared with 91,548,643 pounds in 1923, an increase of 6 per cent. The principal species frozen during the year were halibut, 14,650,787 pounds; salmon, including steelhead trout, 14,309,666 pounds; ciscoes, 13,195,023 pounds; herring, 8,695,698 pounds; whiting, 7,528,339 pounds; mackerel, 5,457,676 pounds; and pike perch, pike, or pickerel, 3,200,624 pounds. The following tables give the statistics of the quantities of fish frozen during 1924.

Fish frozen monthly in 1924, by species, and in 1920 to 1923, by totals

· · · · · · · · ·			м	onth ended	-		a atomes
Species -	Jan. 15	Feb. 15	Mar. 15	Apr. 15	May 15	June 15	July 15
luefish (all trade sizes) -	Pounds 57, 022	Pounds 1,068	Pounds 1,729	Pounds 28, 795	Pounds 8, 593	Pounds 33, 210	Pounds 20, 486
utterfish (all trade sizes) atfish iscoes (including blue-	5, 160 9, 514	6, 129 14, 533	3, 769	9, 781 5, 197	23, 833 90, 641	149, 087 26, 599	172, 998 81, 646
fin, blackfin chub, lake herring, etc.) biscoes (tullibees)	717, 719 38, 686	2, 621 52, 976	34, 938 55, 652	11, 032 32, 996	76, 512 101, 292	149, 447 16, 257	329, 288 75, 577
od, haddock, hake. pollock roaker	54, 840 925	61, 987	62, 937	22, 674 60, 000	203, 089 229, 833	91, 966 8, 887	254, 479 77, 457
lounders. Lalibut (all trade sizes). Ierring, sea (including	24, 719 621, 709	21, 177 283, 522	12, 417 158, 687	5, 920 1, 146, 596	61, 803 1, 164, 138	224, 727 1, 736, 650	116, 404 3, 092, 267
alewives and blue- backs)	122, 947 73, 082	384, 078 64, 400	264, 944 38, 786	101, 374 4, 341	1, 561, 301 70, 663	1, 329, 671 154, 875	595, 183 258, 541
Aackerel (except Span- ish) Pike perches and pike	122, 131	91, 945	59, 321	30, 144	58, 436	269, 531	1, 422, 598
or pickerel ablefish (black cod)	118, 903 96, 523	232, 495 37, 364	149, 241 108, 252	69, 915 38, 889	412, 167 22, 977	209, 408 63, 353	251, 928 163, 458
almon: Silver and fall Steelhead trout	102, 862	68, 096 1, 775	19, 617	18, 168	37, 273 1, 310	89, 613 26, 241	598, 36 292, 61
All other	32, 535	43, 328	98, 809	77, 699	77, 382 7, 408	545, 276 64, 775	1, 452, 12 149, 41
had and shad roe hellfish melts, eulachon, etc queteagues or "sea	5, 855 118, 307 8, 740	1,51851,305100,381	$50 \\ 33, 224 \\ 102, 827$	$18,034 \\ 36,150 \\ 11,853$	155, 673 160, 014 5, 748	171, 197 147, 096 1, 542	287, 100 146, 875 48
trout" quid turgeon and spoonbill	$\substack{\begin{array}{c}35\\32,104\end{array}}$	4, 353	1, 426	7, 803	146, 390 149, 548	53, 793 1, 527, 715	63, 640 510, 464
cat buckers Vhitefish	5,000 21,495 41,006	1,621 12,103 292,884	7,320 3,496 246,950	8, 151 96, 201	132, 809 20, 465 49, 352	143, 408 8, 515 7, 140	125, 387 1, 509 111, 062
Whiting Miscellaneous frozen fish_	217, 385 529, 894	278,410 330,094	$ \begin{array}{r} 604, 673 \\ 348, 408 \end{array} $	602, 928 284, 725	89, 506 922, 105	210, 994 820, 543	741, 10 604, 00
Total, 1924 Fotal, 1923 Fotal, 1922 Fotal, 1921 Fotal, 1920	2, 741, 538 2, 441, 892 4, 005, 000	2, 440, 163 1, 662, 135 1, 452, 801 2, 843, 000 2, 273, 744	2, 417, 473 1, 412, 490 1, 363, 942 1, 770, 000 2, 630, 482	2, 729, 366 1, 400, 078 1, 496, 538 2, 413, 000 2, 465, 375	6, 040, 261 5, 026, 888 1, 980, 435 2, 698, 000 3, 687, 538	8, 281, 516 7, 671, 127 5, 849, 537 9, 624, 000 10, 094, 367	11, 996, 01 11, 871, 64 7, 376, 23 10, 151, 00 12, 761, 79

Fish frozen monthly in 1924, by species, and in 1920 to 1923, by totals-Continued

			Month en	nded—		m.+.1
Species	Aug. 15	Sept. 15	Oct. 15	Nov. 15	Dec. 15	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	8, 595	12, 251	34, 411	29,993	176, 184	412, 337
Biuensii (all trade sizes)	139, 244	393, 083	100,090	97, 484	34, 733	1, 131, 622
Butterfish (all trade sizes)	29, 366	8,988	17.573	90, 083	37, 116	415, 025
Catfish Ciscoes (including bluefin,	23, 300	0,000			Section and the section of the	
Ciscoes (including bluent,						and the second
blackfin, chub, lake herring,	1, 214, 225	2, 562, 454	4, 195, 606	1, 293, 120	2, 608, 061	13, 195, 023
etc.)	169,928	40, 195	64, 755	102, 914	99, 557	850, 785
Ciscoes (tullibees)	206, 956	114, 139	200,005	305, 415	283, 676	1, 862, 163
Cod, haddock, hake, pollock		44, 913	3, 663	1, 167	404	804, 570
Croaker	377, 321	54, 768	102,043	76, 276	42,798	808, 756
Flounders	65,704		677, 516	745, 835	475,050	14, 650, 787
Halibut (all trade sizes)	3, 056, 370	1, 492, 447	011,010	110,000	110,000	11,000,.00
Herring, sea (including ale-		105 026	869,084	1, 142, 898	846, 431	8, 695, 698
wives and bluebacks)	1, 282, 551	195, 236	304, 111	873, 307	244, 280	2, 313, 784
Lake trout	68,097	159, 301		334, 840	242, 244	5, 457, 696
Mackerel (except Spanish)	1, 431, 237	1, 234, 266	161,003	334, 040	212, 211	0, 101, 000
Pike perches and pike or			100 400	450 409	908, 572	3, 200, 624
nickaral	65, 507	154, 563	168, 433	459, 492	90, 630	2, 291, 306
Sablefish (black cod)	459,074	382, 366	525, 326	303, 094	90,050	2, 291, 500
Salmon:		10.		000 700	150 074	6, 536, 688
Silver and fall	753, 695	446, 725	3, 261, 539	989, 760	150, 974	
Steelhead trout	675, 386	172,096	124, 157	14, 330	4,015	1, 311, 921
All other	1, 597, 773	457, 703	1, 362, 144	614,036	102, 252	6, 461, 057
Scup (porgies)	95, 926	590	4, 231	5, 557	4,203	332, 103
Shad and shad roe	44, 317	2,796	8,657	107, 489	37, 288	839, 974
Shellfish	158,032	217, 118	347, 886	503, 263	349, 775	2, 269, 045
Smelts, eulachon, etc	13,008	67,828	79,903	40,020	52,065	483, 960
Squeteagues or "sea trout"		25,020	51, 552	219, 023	24,854	648, 069
Squid.	274, 917	161, 163	516, 404	140,054	26, 601	3, 352, 552
Sturgeon and spoonbill cat		109,404	44, 246	21,756	19, 556	787, 722
Suckers	483	662	1,798	2,763	5,879	79, 168
Whitefish	141.691	114, 176	84,010	328,092	263, 481	1, 776, 045
Whiting	1, 996, 887	783, 336	486, 952	1, 147, 826	368, 336	7, 528, 339
Miscellaneous frozen fish	982, 525	1, 177, 685	1,080,836	864, 986	881, 521	8, 827, 325
Miscellaneous frozen fish	502, 020	1, 111, 000				
matal 1094	15, 541, 641	10, 585, 272	14, 877, 934	10, 854, 873	8, 380, 536	97, 324, 144
Total, 1924		16, 417, 132	12, 511, 606	6, 951, 639	9, 938, 387	91, 548, 643
Total, 1923		10, 826, 942	16, 830, 080	9, 344, 469	7,069,995	75, 154, 028
Total, 1922		9, 356, 000	9, 990, 000	9, 869, 000	8, 173, 000	80, 737, 000
Total, 1921	9,845,000	11, 803, 606	11, 168, 810	9,711,800	9,750,844	92, 259, 67
Total, 1920	13, 620, 232	11,000,000	11, 100, 010	0,	,,	

Quantities of fish frozen during 1924, by geographical sections and by species

Species	New England	Middle Atlantic	South Atlantic	North Cen- tral, East
	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	522	124, 921		285, 811
Butterfish (all trade sizes)	111, 620	978, 732	36, 110	
	86	5,417		78,946
Catfish Ciscoes (including bluefin, blackfin, chub, lake herring,		0, 111	2.022	
		9,600,868	 Skiel St. 1. 	2, 825, 105
etc.)	4.844	499,001	3,850	146, 332
Ciscoes (tullibees)	788, 105	614, 211	3, 850 1, 500	31,073
Cod, haddock, hake, pollock	100, 100	643, 571	142,600	13, 999
Croakers	264.291	455, 082	142,000	= 0.45
Flounders				1, 404, 270
Halibut (all trade sizes)	568, 521	356, 571	13, 200	218, 493
Hanbut (an trade sizes) Herring, sea (including alewives and bluebacks)	7, 420, 148	651, 534	15, 200	1, 385, 951
Lake trout Mackerel (except Spanish)	62.812	587, 841	15, 725	96, 941
Mackerel (except Spanish)	3, 876, 176	969, 560		1, 564, 171
Sablefish (black cod)	955	1, 410, 869		1, 304, 171 125, 037
Sablefish (black cod)		1, 270		125,057
			070	000 155
Salmon: Silver and fall	259, 561	111, 456	250	000
Steelhead trout	5,840	59, 935		
All other	482, 827	114, 682		378, 874
Scup (porgies)	231, 351	99, 108		
Shad and shad roa	431, 541	108, 830	4,720	43, 923
Shallfish	299, 405	717, 949	221, 344	464, 121
Smellts eulechon etc	53, 227	4, 573		140, 625
Shellfish	1,986	594, 883	51, 200	
Squeteagues of sea front	2, 352, 507	950, 280		34,908
Squid		583, 166	4,300	15,996
Sturgeon, and spoonom cat		7,574		71, 594
Suckers Whitefish	4, 418	492, 636		1, 190, 272
W nitensn	3, 362, 737	948, 942	2,179	
Mitching	1, 101, 890	2, 567, 295		
Miscellaneous irozen fish	1, 101, 000	2,001,200		
Total	21, 686, 370	24, 260, 757	832, 856	12, 379, 729

U. S. BUREAU OF FISHERIES

Quantities of	fish	frozen	during	1924,	by	geographical	sections	and	by	species-
Quantities of .	-			Co	ntii	nued				

Species	North Cen- tral, West	South Central	Pacific	Total
	Pounds	Pounds	Pounds	Pounds
Bluefish (all trade sizes)	683	400		412, 337
Butterfish (all trade sizes)		00 007	5, 160	1, 131, 622
Catfish	291, 579	38, 997		415, 025
Ciscoes (including bluefin, blackfin, chub, lake herring,			00 000	
etc.)	749,050		20,000	13, 195, 023
Ciscoes (tullibees)	142, 386	700	53, 672	850, 785
Cod, haddock, hake, pollock	40, 195	930	386, 149	1, 862, 163
Croakers		4,400		804, 570
Flounders			81, 469	808, 756
Halibut (all trade sizes)	444, 528	3, 830	11, 873, 067	14, 650, 787
Herring, sea (including alewives and bluebacks)	266,770	7,500	118, 053	8, 695, 698
Lake trout	215, 180	1,000		2, 313, 784
Mackerel (except Spanish)	23, 267	540	475, 487	5, 457, 696
Pike perches and pike or pickerel	220, 309	1,250	3,070	3, 200, 624
Sablefish (black cod)	62,931		2, 102, 068	2, 291, 306
Salmon:	1			
Silver and fall	167,849	100	5, 699, 317	6, 536, 688
Steelhead trout			1, 245, 246	1, 311, 921
All other	79,612	18,063	5, 386, 999	6, 461, 057
Scup (porgies)				332, 103
Shad and shad roe	9,494	15	241, 451	839, 974
Shellfish		4,031	409,758	2, 269, 045
Smelts eulechon etc	40, 388		245, 147	483, 960
Squeteagues or "sea trout"				648, 069
Squid	9,608		5,249	3, 352, 552
Sturgeon, and spoonbill cat		53, 877	130, 442	787, 722
Suckers				79, 168
Whitefish		1,991	5,035	1, 776, 045
Whiting		.,	0,000	7, 528, 339
Miscellaneous frozen fish		1, 127, 470	1, 246, 790	8, 827, 325
Total	7, 166, 709	1, 264, 095	29, 733, 629	97, 324, 144

Fish frozen in 1924, by geographical sections and by months

Month ending the 15th of—	New England	Middle Atlantic	South At- lantic	North Central, East	North Central, West	South Central	Pacific	Total
January February March April May June July August September		Pounds 582, 997 283, 039 148, 291 168, 930 1, 317, 007 1, 636, 262 2, 126, 272 2, 939, 285 3, 993, 360	Pounds 10, 025 17, 295 10, 900 82, 715 107, 840 58, 475 28, 108 103, 308 99, 729	Pounds 1, 227, 714 1, 090, 300 867, 218 282, 333 702, 187 700, 573 616, 924 304, 840 664, 210	Pounds 517, 798 624, 607 786, 670 824, 026 461, 240 205, 148 250, 409 254, 989 370, 349	Pounds 87, 029 50, 493 96, 729 63, 652 169, 582 62, 814 65, 109 160, 287 181, 486	Pounds 643, 470 229, 458 336, 789 1, 278, 416 1, 395, 591 2, 724, 762 5, 296, 133 6, 357, 612 2, 996, 936	Pounds 3, 179, 098 2, 440, 163 2, 417, 473 2, 729, 366 6, 040, 261 8, 281, 516 11, 996, 011 15, 541, 641 10, 585, 272
October November December	2, 069, 698 2, 025, 623 1, 041, 969	5,230,149 3,158,908 2,676,257	210, 457 84, 769 19, 235	819, 246 2, 330, 291 2, 773, 893	760, 660 1, 048, 406 1, 062, 407	121, 983 98, 061 106, 869	5,665,741 2,108,815 699,906	10, 877, 934 10, 854, 873 8, 380, 536
Total	21, 686, 370	24, 260, 757	832, 856	12, 379, 729	7, 166, 709	1, 264, 094	29, 733, 629	97, 324, 144

NEW ENGLAND VESSEL FISHERIES

GENERAL STATISTICS

The vessel fisheries centering at Boston and Gloucester, Mass., and Portland, Me., were more productive in 1924 than in the previous year, but there was a slight decrease in the value of the products. There was an increase of 14.38 per cent in the number of trips and of 4.58 per cent in the quantity of products, with a decrease of 0.83 per cent in their value, as compared with 1923. The increase in the number of trips was all at Boston and Gloucester. There was an increase in products at each of the three ports and in the value at Gloucester but a decrease in value at Boston and Portland. The increase in the number of trips at Boston was 10.90 per cent and at Gloucester 36.61 per cent, with a decrease of 0.31 per cent at Portland. At Boston the increase in the products landed amounted to 5.44 per cent, with a decrease of 0.59 per cent in the value; at Gloucester there was an increase of 2.33 per cent in quantity and of 14.36 per cent in value, and at Portland an increase of 2.80 per cent in quantity with a decrease of 22.19 per cent in value. Statistics of the fisheries have been collected by the local agents and published in monthly bulletins, showing by species and fishing grounds the quantities and values of fishery products landed by American fishing vessels during the year at these ports. Two annual bulletins have been issued, one showing the catch by months and the other by fishing grounds.

The fishing fleet at these ports during the calendar year 1924 numbered 343 sail, steam, and gasoline vessels, including 32 steam trawlers. These vessels landed at Boston 3,735 trips, aggregating 130,966,256 pounds of fish, valued at \$5,401,590; at Gloucester, 2,157 trips, aggregating 35,845,920 pounds, valued at \$1,041,476; and at Portland, 1,583 trips, aggregating 16,136,018 pounds, valued at \$549,886. The total for the three ports amounted to 7,475 trips, aggregating 182,948,194 pounds of fresh and salted fish having a value to the fishermen of \$6,992,952.

Compared with the previous year there was an increase of 940 trips, or 14.38 per cent, in the total number landed at Boston, Gloucester, and Portland, and an increase of 8,006,725 pounds, or 4.58 per cent, in quantity, and a decrease of \$58,202, or 0.83 per cent, in the value of the products landed. There was a small decrease in both the quantity and value of cod and an increase in the quantity with a decrease in the value of haddock. Hake, pollock, cusk, and herring increased in both quantity and value. Halibut decreased in both quantity and value, while mackerel and swordfish decreased in quantity but increased in value. The catch of cod declined 1,206,521 pounds, or 1.92 per cent, in quantity and \$45,835, or 2.10 per cent, in value, and haddock increased 6,140,252 pounds, or 8.32 per cent, in quantity but decreased \$114,572, or 4.73 per cent, in value. Hake increased 946,834 pounds, or 14.94 per cent, in quantity and \$43,734, or 30.72 per cent, in value; pollock increased 280,952 pounds, or 5.85 per cent, in quantity and \$7,249, or 4.76 per cent, in value; and cusk increased 407,385 pounds, or 13.59 per cent, in quantity and \$6,386, or 10.34 per cent, in value. The catch of halibut decreased 452,358 pounds, or 9.28 per cent, in quantity and \$133,045, or 14.44 per cent, in value. The mackerel catch decreased 1,807,719 pounds, or 15.63 per cent, in quantity and increased \$54,147, or 11.10 per cent in value; and swordfish decreased 432,003 pounds, or 17.59 per cent, in quantity and increased \$1,718, or 0.38 per cent, in value. The herring catch increased 2,927,896 pounds, or 197.45 per cent, in quantity and \$83,349, or 187.22 per cent, in value. The Newfoundland herring catch increased from 1,219,200 pounds, valued at \$40,861, in 1923, to 2,943,480 pounds, valued at \$108,371, in 1924. In the various other species combined there was an increase of 1,202,007 pounds, or 30 per cent, in quantity and \$38,667, or 20.94 per cent, in value.

The catch of scrod cod landed at these ports decreased from 414,659 pounds, valued at \$6,447, in 1923, to 318,440 pounds, valued at \$5,371, in 1924, and the catch of scrod haddock increased from 4,845,695 pounds, valued at \$94,481, in 1923, to 11,927,105 pounds, valued at \$199,386, in 1924. The small quantity of these grades landed, as compared with other grades of these species, is said to be due to the fact that the price is so low that the fishermen do not save all that are caught.

The following tables present in detail, by fishing grounds and also by months, the fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels for the calendar year 1924. 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. The grade, or sizes, given for certain species are those recognized in the trad[§].

Statement, by fishing grounds, of quantities and value of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924

					Co	d			
Fishing grounds	Num- ber of trips	Large	(10 poun	ds and ov	ver)	Market (under 10 and over 2 pounds)			
		Fre	sh	Salt	ed	Fres	h	Salt	ed
LANDED AT BOSTON				10-12	and.	that bard		Tree al	and a
East of 66° W. longitude La Have Bank Western Bank Quereau Bank Green Bank	32 109 35 4		84, 153	11,000	\$358	Pounds 173, 085 739, 690 1, 490	Value \$6,072 21,353 33	Pounds	
Grand Bank St. Peters Bank Burgeo Bank	25 13 1	16, 130 4, 700	165			500	10		
Off Newfoundland Cape Shore The Gully Labrador Coast	1 52 2 1	231, 385	11,912			113, 840	4, 164		
West of 66° W. longitude					1		11.12	. alin	
Browns Bank Georges Bank Cashes Bank Clark Bank Fippenies Bank	720 13 1 3	2, 530, 858 11, 864, 940 98, 960 3, 750 37, 300	428, 888 5, 176 375 2, 003			35, 950 3, 050	105, 209 1, 224		
Tillies Bank Middle Bank Jeffreys Ledge South Channel Nantucket Shoals Off Chatham Seal Island Shore, general	$ \begin{array}{r} 4 \\ 269 \\ 414 \\ 886 \\ 148 \\ 86 \\ 2 \\ 730 \\ \end{array} $	427, 313 5, 669, 936 615, 429 107, 691 16, 100	12, 021 32, 852 283, 103 37, 455 5, 835 752			95, 455 201, 230 2, 730, 261 636, 685 103, 315 21, 000 363, 730	9, 388 86, 015 21, 487 3, 771 493		
Total	3, 735	24, 893, 292	1, 070, 442	17,000	613	10, 959, 426	324, 467		

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

and and an					Coo	1			
Fishing grounds	Num- ber of trips	Large	(10 poun	ds and ov	er)	Market (under 1 pound	0 and o ls)	ver 2½
Petial Front		Fre	sh	Salte	ed	Fres	h	Salt	ed
LANDED AT GLOUCESTER						dimente -	372 1 8	Qr4 27	141
East of 66° W. longitude La Have Bank Western Bank Quereau Bank	15 98 26 3	Pounds 311, 620 6, 193, 275 46, 555	Value \$7, 221 142, 089 1, 586	Pounds 112, 142 626, 075 234, 315 31, 285 228, 454	Value \$5, 689 31, 330 11, 336 1, 687	Pounds 133, 950 2, 625, 781 7, 945	Value \$3, 252 47, 854 240	Pounds 22,730 501,517 38,840 3,505	Value \$964 19, 594 1, 481 158
Grand Bank St. Peters Bank	31 15 11	40, 230 10, 830	924 246	228, 454 150, 803	10, 875 7, 454	3, 835 1, 230	91 22	41, 480 28, 382	1, 597 1, 111
Off Newfoundland Cape Shore Labrador Coast	11 11 1	67, 145	1, 504	4,670	234	72, 755	1, 286	205	
West of 66° W. longitude	Leng L		2.561	i kini i	(* .) *				
Browns Bank Georges Bank Cashes Bank	35 162 1		12, 914 100, 358		3, 356 20, 116		6, 651 13, 979	12, 265 83, 665	461 3, 188
Middle Bank South Channel Nantucket Shoals	23 37 4	54, 020 2, 165	1, 315 54			139, 760 9, 770	2, 626 179		
Shore, general	1,684	2, 469, 465	117, 698	1,763	79	39, 605	744	317	11
Total LANDED AT PORTLAND East of 66° W longitude	2, 157	14, 229, 650	385, 909	1,862,222	92, 156	4, 161, 361	76, 924	732, 906	28, 573
La Have Bank Western Bank Quereau Bank Green Bank	4 30 5 1	14, 645 1, 583, 820	445 34, 890	12, 300 78, 885 9, 380	4.063	10, 735 150, 800	252 3, 512	2,400 15,225 1,280	633
Grand Bank St. Peters Bank Burgeo Bank Cape Shore Cupf of St. Lawrence	13	8, 850				825			
Gulf of St. Lawrence St. Anns Bank The Gully West of 66° W. longitude	1	2, 500							
Browns Bank	4		209	8, 635	432	1, 110	22	1,000	48
Georges Bank Cashes Bank Fippenies Bank Middle Bank Platts Bank	23 2 2	76, 945 8, 090 1, 750	2, 476 667 61 11, 526	1, 825 	87	33, 630 4, 325 760 92, 873	776 155 19 2, 928		
Jeffreys Ledge Shore, general	251	219,873	11, 520 12, 780 66, 118			80, 025 231, 304	2, 928 2, 750 6, 835		
Total	1, 583	3, 522, 984	129, 523	121, 360	6, 127	606, 387	17, 266	23, 725	933
Grand total.	7,475	42, 645, 926	1, 585, 874	2,000,582	98, 896	15, 727, 174	418, 657	756, 631	29, 50

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

	C	od-C	ontinued		These a	Haddo	ck	
Fishing grounds	Scrod	l (1 to	2½ pour	nds)	Larg	e (over 2½	i pounds))
	Fre	sh	Salt	ed	Fre	esh	Salt	ted
LANDED AT BOSTON						and the second	1.1.1.1	la.
East of 66° W. longitude	Pounde	Value	Pounda	Value	Pounds	Value	Pounds	Valu
.a Have Bank Vestern Bank Cape Shore	850 2, 400 3, 350	\$17 48			471, 395 2, 250, 535 208, 860	\$16, 123 56, 612		
West of 66° W. longitude			68	astro			Sant .	Proved St.
Browns Bank Heorges Bank Ashes Bank Clark Bank Fippenies Bank diddle Bank diddle Bank diddle Bank effreys Ledge outh Channel Santucket Shoals off Chatham eial Island thore, general	4, 925 150	68 2 89 450			$\begin{array}{c} 4,819,827\\ 12,372,955\\ 84,280\\ 28,600\\ 7,500\\ 1,242,970\\ 2,956,320\\ 25,127,169\\ 5,222,820\\ 820,400\\ 72,500\\ 1,432,430\\ \end{array}$	1,098 198 56,244 134,020 814,956		*****
Total	176, 390	3, 639			57, 118, 561	1, 847, 134		
LANDED AT GLOUCESTER				1			1.61	
East of 66° W. longitude					122.22		1. 1.	1.5
a Have Bank Vestern Bank Quereau Bank Frand Bank t. Peters Bank Cape Shore	1, 260 7, 215 690	13 54	29, 318 1, 380 25	893 41	1, 229, 370	15,456	78 150 40	1
West of 66° W. longitude				1			ed ente	1.1
Browns Bank Beorges Bank South Channel Nantucket Shoals Thore, general	4, 275 2, 925 490 660	33 30 5 		3	318, 175 1, 228, 615 777, 810 274, 055 751, 171	4, 360 16, 158 13, 080 3, 602 30, 828	55	i
Total	17, 515	146	30, 973	943	4, 673, 621	84, 685	323	8
LANDED AT PORTLAND East of 66° W. longitude		1	1				ard an Incl m	
a Have Bank	950 500	5 4	4, 540		15, 450 3, 876, 233		3, 095	62
West of 66° W. longitude								
ashes Bank ippenies Bank liddle Bank latts Bank effreys Ledge hore, general	6,530 440 300 20,415 24,300 35,447	32 2 107 150 227	140	3	92, 085 10, 820 20, 450 360, 600 844, 056 959, 376	3, 185 418 873 16, 369 40, 059 40, 534		
Total	88, 882	529	4, 680	114	6, 179, 070	177, 330	3, 095	62
Grand total	282, 787	4, 314	35, 653	1,057	67, 971, 252	2, 109, 149	3, 418	70

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

	Hade	Hake Large (6 pounds and over)						
Fishing grounds	Scrod							
traited the fears bene	Fres	Salted		Fresh		Salted		
LANDED AT BOSTON			All and and	2			19 7 1	3.655
East of 66° W. longitude	Pounds	Value	Pounds	Value	Downdo	Value	Doundo	Value
La Have Bank	2,000	\$40					Founds	<i>vaiue</i>
Western Bank Grand Bank	55, 300	825			1,000	\$30		
Cape Shore	475	5						
West of 66° W. longitude	The second					1.56		Tentes
Browns Bank	36, 720				735			
Georges Bank Cashes Bank	1,456,900 9,515	23, 676 142			600	30		
Middle Bank	226, 750	4,936			26,990			
Jeffreys Ledge South Channel	600, 440				134, 440			
Nantucket Shoals	6, 350, 335 1, 685, 848				404,805			
Off Chatham	204,090	5, 299			6,700	242		
Shore, general		7,600			12, 947	253		
Total	11, 023, 748	190, 527			588, 667	19, 103		
LANDED AT GLOUCESTER	1							142
East of 66° W. longitude	A - 1062.)		11.1					
La Have Bank					9, 595	117	575	\$12
Western Bank					12, 535	156	2, 295	
Green Bank					6,120 7,250		5, 170 680	
Grand Bank					16, 640	296	5, 240	90
St. Peters Bank Cape Shore					4,860 2,210	54 33	1, 770	26
West of 66° W. longitude					2, 210	00		
	and the set of					1.1		1.1
Browns Bank					7, 315 39, 060	83 452		
South Channel					28, 895	452 359	4, 370	70
Nantucket Shoals	46, 775				5, 500	69		
Shore, general	2, 745	88			111, 119	2, 998	34	1
Total	468, 165	5,009			251, 099	4, 794	20, 134	350
LANDED AT PORTLAND							- 6.000	
East of 66° W. longitude								
Western Bank St. Peters Bank	8, 650	66	1, 365	\$27	160 500	2 35		
West of 66° W. longitude					500	30		
sauce of the second	100	Sec.						
Cashes Bank Fippenies Bank	14, 430 1, 315	72 7						
Middle Bank	2,715	19			1, 120	45		79555
Platts Bank	72,690	518			8, 125	212		
Jeffreys Ledge Shore, general	184, 957 149, 070	1,738 1,403			1, 035 8, 835	56 427		
The second s								
	433, 827	3,823			19,775	777		
Grand total	11, 925, 740	199, 359	1,365	27	859, 541	24,674	20, 134	35

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Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

Fishing grounds			Hake-Continued								
	Smal	l (under	6 pound	Pollock							
	Fresh		Salted		Fresh		Salted				
LANDED AT BOSTON		32		-	Rothod	the states	24				
East of 66° W. longitude	Dounds	Walaus	Dounda	Value	Doumda	Value	Doumda	Valu			
La Have Bank	Pounds 22, 200	Value \$520	Pounds		Pounds 7, 560		Pounds	vaiu			
Western Bank	10, 360	244			170, 050	6, 564					
Quereau Bank							*******				
Grand Bank St. Peters Bank Cape Shore	850	26				74					
West of 66° W. longitude							dead to	10.21			
			1	17/03			derit but	1.2.2			
Browns Bank					101, 829 399, 166						
Georges Bank Cashes Bank		1, 209			12, 743						
Clark Bank					930	37					
Fippenies Bank					3,170 57,700	55					
Middle Bank					57,700 142,510	2,047 4,537					
Jeffreys Ledge South Channel	813, 190 3, 269, 424	78 622			931, 384	37, 431					
Nantucket Shoals	137, 625	3, 755			147, 585	6, 411					
Off Chatham	95, 700	4, 095			49, 885	2, 223					
Shore, general		3, 808			117, 677	5, 159					
Total	5, 110, 027	129, 356	1, 150	32	2, 144, 519	84, 287					
LANDED AT GLOUCESTER				1.24				100.10			
East of 66° W. longitude					1.1.2.2.7						
La Have Bank					2, 125	25	1, 315	\$25			
Western Bank Quereau Bank					83, 345	1,096					
Quereau Bank Green Bank					660	6	760 360				
Grand Bank							795				
St. Peters Bank							50				
Cape Shore					880	9					
West of 66° W. longitude	100				126	Telas		in Links			
Browns Bank					20, 715	239	765	14			
Georges Bank					33, 335	377	4, 970	92			
South Channel					4, 520	57					
Nantucket Shoals Shore, general					1,245 2,142,768	16 58, 815					
inite, generalized					2, 112, 100	00,010					
Total					2, 289, 593	60, 640	11, 390	214			
LANDED AT PORTLAND				111	13.8.8.T.		tere Day	1.34			
East of 66° W. longitude	X.				Suthand.	1.	in a				
La Have Bank	2, 570	30			300	4					
Western Bank	5, 335	74			181, 275	2, 463	6, 555	109			
Quereau Bank St. Peters Bank	5, 000 600	63 6					85	2			
West of 66° W. longitude	000	0									
	198.	14	1	44.4			0.00	1.42			
Cashes Bank	62, 935	1,399	430	9	19, 820	375					
Fippenies Bank Middle Bank	6, 525 4, 490	202 62			615 255	12					
Platts Bank	537,007	11, 252			35, 463	833	310	7			
Jeffreys Ledge	313, 546	9, 599			95, 762	2, 792					
Shore, general	355, 161	8, 990	160	3	299, 336	7, 693					
Total	1, 293, 169	31, 677	590	12	632, 826	14, 179	6, 950	118			
	6, 403, 196	161,033	1, 740		5,066,938	159, 106	18, 340	332			

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

Fishing grounds	Cusk				Halibut				
	Fresh		Salted		Fresh		Salted		
LANDED AT BOSTON						1000			
East of 66° W. longitude					18	intern -	Carter		
	Pounds		Pounds		Pounds	Value	Pounds		
La Have Bank	59, 935 6, 525				167,282 283,306				
Quereau Bank	3, 735	114			959, 096	141, 427			
Green Bank Grand Bank					116,533 712,572				
St. Peters Bank	700	14			358, 787	58, 369			
Burgeo Bank Cape Shore	24 050				32, 186	5, 992			
The Gully					2,191 51,386	9,833			
Labrador Coast					13, 429				
West of 66° W. longitude				17 640	in a second			e s de d	
Browns Bank	366, 161	6, 521			280, 561				
Georges Bank	109, 450 85, 595	2,177			766, 116 1, 246	159, 566			
Clark Bank	00,000	1, 440			817	613			
Fippenies Bank					278	42			
Middle Bank	192, 520 425, 842				5,145 7,173	1,551			
South Channel.	473, 198	10, 270			161, 322	41,726			
Nantucket Shoals	12,480	227 584			6,024	1,390			
Off Chatham Seal Island	18,080 4.115	57			3,076 120	955	••••••		
Shore, general	48, 400	891			5, 981				
Total	1, 860, 576	38, 443			3, 934, 627	711, 946			
LANDED AT GLOUCESTER									
East of 66° W. longitude		1994						18 B.	
La Have Bank	45, 170	707	1, 260	\$20					
Western Bank	110, 920	1,772	10,650	219	10, 475	943	340	\$34	
Quereau Bank	77, 415 140		9, 010	217					
Grand Bank	31, 320	339							
St. Peters Bank	2,250 15,230	28 194	4, 160	67	J		85	11	
West of 66° W. longitude	10, 200	134	90.09	1111					
Browns Bank	120, 740	1,827	3, 765	84		har a			
Georges Bank	232, 845	3,948	20, 535	564	130	11			
Cashes Bank	16,000 14,775	299 202							
Shore, general	24, 590	377							
Total	691, 395	11,009	55, 515	1,309	10,605	954	530	58	
LANDED AT PORTLAND				200					
East of 66° W. longitude		121 - 14			1.1.1				
La Have Bank	7,475	105			13, 583	2, 140			
Western Bank	9,635				64, 215				
Quereau Bank	18,000	263			83, 210 23, 553	4, 306			
Grand Bank					24, 563	3, 169			
St. Peters Bank Burgeo Bank	1,670				75, 588 29, 880				
Gulf of St. Lawrence					7,937	1,166			
St. Anns Bank The Gully	4, 440	67			34,072 33,859	6,284			
West of 66° W. longitude	4, 440	01			00,000	3, 520			
Browns Bank	1,900	29	the party of	22,221	60, 641	9,869	obdomina od		
Georges Bank	3,060	69			7,709				
Cashes Bank Fippenies Bank	80, 945	1, 191	300	6	4,032	636			
Middle Bank	1,920 1,370	38 26			45 6				
Platts Bank	234, 495	4,438	775		6,244	1,071	*******		
Jeffreys Ledge Shore, general	183, 516 243, 609	4, 718	125	1	3, 253 3, 994	574 514			
Total	792,035		6,070	154	476, 384	76, 651	*******		
		11.199	n 0/0	1.041	470.004	(0, 03)			

Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

		Mack	erel	1	Miscellaneous				
Fishing grounds	Fresh		Salte	d	Fres	h	Salted		
LANDED AT BOSTON						True To	(ARTRA)		
East of 66° W. longitude	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
La Have Bank. Western Bank Quereau Bank Grand Bank St. Peters Bank.				*******	6, 158 37, 942 5, 004 8, 318 711	\$1,472 1,600 1,181 1,702 158	*********		
Off Newfoundland Cape Shore	796, 413	\$48, 707	12,000	\$1, 120	110, 129	28, 249	180,000		
West of 66° W. longitude					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	during	174017		
Browns Bank Georges Bank Cashes Bank	22, 144 38, 090	2,059			51, 456 1, 977, 118 100	390, 051 10			
Tillies Bank Middle Bank Jeffreys Ledge South Channel Nantucket Shoals Off Chatham	100, 255 1, 834, 214 271, 916 676, 352 84, 370 675, 288	5, 921 66, 545 32, 519 34, 417 4, 085 25, 082	40, 500 8, 700 4, 400 38, 800	856 242 2, 329	21, 186 198, 446 1, 085, 664 303, 629 91, 291 2, 742, 612	915 9, 327 64, 502 19, 708 5, 487			
Shore, general	1, 682, 397	114,966	32, 670	2,876					
Total	6, 181, 439	337, 933	137, 070	9,983	6, 639, 764	629, 185	180,000	4, 50	
LANDED AT GLOUCESTER				6 : 1			1.0		
East of 66° W. longitude Off Newfoundland Cape Shore			62, 700	4, 389			2, 763, 480	103, 87	
West of 66° W. longitude				6. 1					
Middle Bank South Channel Shore, general	142, 650 84, 560 1, 608, 651	2, 982 1, 692 86, 419	303, 800 55, 540 683, 084	2, 847	13, 000 621, 458	*******			
Total		91, 093	1, 105, 124	80, 394	634, 458	12, 437	2, 763, 480	103, 87	
LANDED AT PORTLAND				and the second s			- A BEAK	100.05	
East of 66° W. longitude				1				Sector.	
La Have Bank					20, 222 8, 412 170	400			
Burgeo Bank. Cape Shore	106, 630	4, 244			42, 763	10, 835			
West of 66° W. longitude				1.11				100	
Browns Bank Georges Bank Cashes Bank			********	Juhan ten	59	16,790			
Middle Bank Platts Bank Jeffreys Ledge Shore, general					250 572 6,653 1,259,441	31 345			
Total	457, 022		40, 993		1, 424, 829				
Grand total	Transfer Provident			-			2, 943, 480	100 07	

NoTE.—The items under "Miscellaneous" include bluebacks, 106,000 pounds, value \$523; butterfish, 29,741 pounds, value \$5,134; flounders, 4,335,227 pounds, value \$191,515; herring, fresh, 1,467,256 pounds, value \$19,406; herring, salted, 2,943,480 pounds, value \$108,371; rosefish, 76.695 pounds, value \$1,630; salmon, 23 pounds, value \$5; shad, 178,659 pounds, value \$3,802; sharks, 7,507 pounds, value \$223; skates, 21,210 pounds; value \$356; smelt, 3,554 pounds, value \$475; sturgeon, 1,369 pounds, value \$302; swordfish, 2,023,416 pounds, value \$449,837; tuna, 2,088 pounds, value \$129; livers, 6,049 pounds, value \$139; spawn, 216,792 pounds, value \$12,900; and tongues, 90 pounds, value \$4. In this report vessels include only craft of 5 net tons and upward.
Statement, by fishing grounds, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the calendar year 1924—Continued

Fishing grounds		Tota	l		Grand	total
Fishing grounds	Free	sh	Salt	ed	Granu	totar
LANDED AT POSTON	o bao shulo	g of refue	2.1		drouth	
East of 66° W. longitude	Pounds	Value	Pounds	Value	Pounds	Value
La Have Bank		\$77, 695	1		1, 231, 017	\$77, 693
Western Bank	_ 5, 536, 115	221, 505	11,000	\$358	5, 547, 115	221, 863
Quereau Bank	- 1,004,085	144, 014	6. (100)	255	1,010,085	144, 269
Freen Bank Frand Bank	- 116, 533 757, 205	22, 358			116,533 757,205	22, 358 121, 200
t. Peters Bank	366, 248	58 742			366, 248	58, 742
Burgeo Bank	32, 186	5, 992	202122222		29 186	5, 99
Burgeo Bank Off Newfoundland			180,000	4, 500	180,000	4, 50
ape Shore	1, 513, 793	102, 556	180, 000 12, 000	1, 120	1, 525, 793	103, 67
The Gully abrador Coast	- 51, 386	9,833	*********		51, 386	9,83
	- 13, 429	1, 296			13, 429	1, 29
West of 66° W. longitude	100.000178	.08	00.1.106	Sec. 2.	Section 1.	
Browns Bank		397, 192			10,067,654	397, 19
leorges Bank	- 33, 018, 102	1, 480, 416			33, 018, 102	
Dashes Bank Dark Bank	37 147	10, 329			432, 304 37, 147	15, 32 2, 27
Fippenies Bank	71, 713	2,734	Carlennes-		71, 713	2, 73
Fillies Bank	100, 255	5, 921	12.00		100, 255	5, 92
Middle Bank effreys Ledge	4, 246, 084	162,851	40, 500	2, 560	4, 286, 584	165, 41
effreys Ledge	_ 6, 205, 775	276, 114	8,700	856	6, 214, 475	276, 97
South Channel				242	46, 955, 300	1, 573, 45
Nantucket Shoals Off Chatham	- 8, 853, 435 - 2, 177, 386	271, 828 91, 952	38,800	2, 329	8, 853, 435 2, 216, 186	94, 28
Seal Island	113, 835	2, 683	00,000	2, 020	113, 835	2, 68
Shore, general				2,908	7, 768, 269	341, 670
Total		5, 386, 462	335, 220	15, 128	130, 966, 256	5, 401, 590
LANDED AT GLOUCESTER	100 (111 (100) 100 (111 (111)	na jest v na jest v		457		
East of 66° W. longitude	AND BERGELLER	和1	45.5			
La Have Bank	- 591, 535	12, 439	138, 157	6, 714	729, 692	19, 15
Western Bank	10, 272, 916	209, 420		52, 148	11, 445, 564	261, 568
Quereau Bank Green Bank	7 000	3, 231 94		$13,194 \\ 1,871$	428, 320	16, 42
The second Decision of the second sec			989 940	12,730	43,220 374,699	1, 96 14, 38
Stand Bank St. Peters Bank	19,170	1, 055	185, 275	8,671	204, 445	9,02
Off Newfoundland	122 1967 1980	1250 1001.3	2, 763, 480	103, 871	2, 763, 480	103, 87
Jape Shore	- 105, 095	3, 124	62, 700	4, 389	227,795	7, 51
Labrador Coast			4, 875	242	4, 875	242
West of 66° W. longitude	1098	16231	\$1 and 1			
Browns Bank	1, 426, 980			3, 915	1, 510, 285	30, 02
Georges Bank	- 6, 781, 835	135, 669		24,034	7, 301, 725	159, 703
Cashes Bank Middle Bank		299		17 706	16,000	299
South Channel	- 155, 650 - 1, 483, 865	3,080 23,399		17,796 2,847	459, 450 1, 539, 405	20,870 26,240
Nantucket Shoals	339, 510	4, 416		2,011	339, 510	4, 410
Shore, general	7, 772, 232	310, 311		55, 454	8, 457, 455	365, 765
Total	_ 29, 263, 323	733, 600	6, 582, 597	307, 876	35, 845, 920	1, 041, 476
LANDED AT PORTLAND	The second second	01 380.2				Same 7
East of 66° W. longitude	a man state and a	Same and a second				
La Have Bank	85, 930	7,878	14,700	638	100, 630	8, 51
Western Bank	5, 889, 035			5, 136	6,003,570	135, 093
Quereau Bank	_ 106, 210			531	116, 955	16,02
Freen Bank	23, 553	4, 306			23, 553	4, 300
Grand Bank	- 24, 563	3,169			24, 563	3, 16
St. Peters Bank Burgeo Bank					93, 333 30, 050	9, 550 4, 830
Cape Shore	149, 393				149, 393	15, 079
Cape Shore Gulf of St. Lawrence	7,937	1,166			7,937	1,16
St. Anns Bank					34,072	6, 28
The Gully	- 40, 799	4,056			40, 799	4,05
West of 66° W. longitude						
Browns Bank	74,094	10, 358	9,635	477	83, 729	10, 83.
Georges Bank	- 95, 883	18, 150			95, 883	18, 150
Cashes Bank	391, 411	10, 144	2,630	105	394, 041	10, 24
Fippenies Bank		1, 511			34,095	1, 51
Middle Bank Platts Bank	33,466			262	33,466 1,584,650	1, 123 49, 54
Jeffreys Ledge				202	1, 957, 101	49, 54
Shore, general	5, 282, 695			1, 276	5, 328, 198	174, 83
Total				8,633	16, 136, 018	549, 88
Grand total			7, 126, 645		182, 948, 194	

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924

	and to be				Coe	i strano		14-	
Month	Num- ber of trips	Large		ds and ov	er)	Market (0 and ove ds)	er 21⁄2
	er i pe	Fre	sh	Salte	ed	Fres	h	Salte	ed
								- dendly-	
LANDED AT BOSTON	020	Pounds	Value	Pounds	Value	Pounds	Value \$26, 270	Pounds	Value
January February	280		\$88, 621 114, 602		*******	728, 575		*********	1.55
March	297	3, 270, 788	121,099			531,930	20, 325		
April	245		67, 248			791, 250	19, 520		
Vlay	233		65,076			1,047,385			*****
une	304		86,377	6,000	\$200	1, 168, 801 1, 193, 095			
ulv	355 372		78,440 72,948			1, 195, 095		- K-+ 1- 1- ++	
August September	370		106, 909			1. 282, 328	33,019		
October	353	2, 190, 750	111, 100			1,014,410	32,015		1
November	311	883, 686	65, 151		358	1,014,410 537,500	23, 332 35, 751		
December	316		92, 871			852, 707	35, 751		antere.
Total	3, 735	24, 893, 292	1,070,442	17,000	613	10, 959, 426	324, 467	timer as	
LANDED AT GLOUCESTER						-		Contraction of the local data	
	45	44, 895	4, 154	231.2.1		19, 275	313	Line Blad	$p m_{Q}$
anuary February	115		47, 977	4, 520	215			45	\$
March	202	1, 640, 545	49, 425	8,655	393		1, 307	1,895	6
April	261	1, 421, 140	44, 134	102, 561	4, 569	202,710	3, 481	18,900	66
May	205		37, 990		9,867	463, 781 787, 520	8, 307	51, 237 395, 522	1,80
une	171	1, 450, 215	35, 937	372, 675	18, 106	787, 520	14,851	395, 522	15, 26
uly	175 116		64, 833		16, 363 12, 133	1, 211, 950 895, 795	21, 645 17, 193	99, 372 40, 445	
August September	236		51,868 28,077	396, 585	20, 715	301, 090	5,832	100, 250	
October	206		4, 727	156, 955	8, 579		1,982	21, 660	97
November	274	69, 410	4, 167	21, 145	1,216			3, 580	170
December	151	125, 140	12, 620	*******		2, 710	58		
Total	2, 157	14, 229, 650	385, 909	1, 862, 222	92, 156	4, 161, 361	76, 924	732, 906	28, 573
LANDED AT PORTLAND						1.1.2.2		and Color	33
January	116	134, 625	9,380			62, 320	2, 497		
February		120, 685	4, 509		92		1,580		
March	132		19, 325	2,660	133		2,009	1,915	7
April May	139 103	318,056	11, 912	16, 565	734	53, 504	1, 165	4,900	
fune	167	348, 670	8,904 16,970	1, 475 15, 390	70 749		662	3, 510	
Tuly .	191	278, 822	14, 323	7, 580	379		683	1, 280	51
August	174		9, 524	200	10				
August September October	112	246,930	8,901	28, 155	1,345	58,015	1,207	6,970	28
October	135		8,404	44, 530	2, 537	86, 596	2, 235	4, 240	
November December	112 89		10,495 6,876	1,740	78	97, 468 49, 878	2, 538 1, 755	515	21
Total	1, 583		129, 523	121, 360	6, 127	606, 387	17, 266	23, 725	93
Grand total		42, 645, 926				15, 727, 174		756, 631	
Grounds east of 66° W. long.		10, 863, 004							-
Grounds west of 66° W. long.	6, 927	10, 863, 004 31, 782, 922 23, 514, 769 9, 642, 130	1, 280, 576	1, 508, 609 491, 973	24, 426	4,039,261 11,687,913 14,367,255	330, 387	657, 564 99, 067	3, 777
Landed at Boston in 1923	3, 368	23, 514, 769	1,063,881	29, 940	1, 253	14, 367, 255	379, 712		
Landed at Gloucester in 1923.	1, 579	9, 642, 130	278, 467	2,652,059	126, 698	6, 148, 642	111, 398	1, 282, 491	49, 377
Landed at Portland in 1923.	1, 588	3, 406, 136	124, 369	-295,646	14, 521	847, 222	25,906	54, 325	2, 11

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924—Continued

	C	od-C	ontinued	l		Haddo	ck	
Months	Scroo	l (1 to	2½ pour	ıds)	Larg	e (over 2½	2 pounds	s)
	Fre	sh	Salt	ed	Fre	esh	Salt	ed
LUNDED IN DOCTOR	10.1					1		1
LANDED AT BOSTON	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
January	28, 105	\$606			4, 723, 300	\$233, 849		
February	6, 210	81			6, 580, 140	193, 580		
March	5,050	90			6, 374, 855	241, 363		
April	9,300	115			4, 640, 749	125, 084		
May	4, 215	43			3, 898, 015	113, 418		
lune	2,940	38			3, 586, 565	93, 663		
July	6,105	55			3, 366, 552			
August	1,805	13			2, 907, 200	73, 342		
September	1,960	16			4, 746, 030	122, 979		
October	57, 320	765			5, 705, 005			
November	7,005	105			4, 947, 315	157,965		
December	46, 375	1,712			5, 642, 835	243, 147		
			10040 13		-,, 000			
Total	176, 390	3, 639			57, 118, 561	1, 847, 134		
LANDED AT GLOUCESTER		1941			0.599,500	1999 100	an a	
anuary	3, 300	25			5, 155			
February					201, 616	3, 445		
March					161, 535	3, 208		
April	1,680	13	285	\$7	1, 213, 115	27, 325		
May	3, 990	30	25	1	907, 170	17, 594		
fune	1,365	11	26, 193	786	631,060	9, 187	173	\$4
fuly	2,650	21	295	7	590, 250	7,353	150	4
August	1,270	13	90	3		5,032		
September	1,430	15	3,035	106		2,957		
October	200	2	1,050	33	133, 790	4, 781		
November	1,630	16			204, 885	3,407		
December					14, 400	216		
Total	17, 515	146	30, 973	943	4, 673, 621	84, 685	323	8
LANDED AT PORTLAND					at a s			
and the second se	10 455	07			007.044	10 000		
anuary	10,455	67			327, 944	19, 663		
February	8,628	63			419, 113			
March	6, 235	61	200	6	1, 526, 927	36, 421		
April	7, 305	39	3, 460	87	1, 716, 064	34, 473		
May	4,350	22			572, 620	12, 304		
fune	6, 572	33	140	3	118, 510	4, 261		
fuly	555	3			100, 552	2,897		
August	2, 320	13			100, 437	4,604		
September	5, 305	26			151,041	5, 493	2, 525	51
October	16, 460	87			364,356	13,170		
November	10,650	54	880	18	423,630	12, 295	570	11
December	10, 047	61			357, 876	15, 849		
Total	88, 882	529	4, 680	114	6, 179, 070	177, 330	3, 095	62
Grand total	282, 787	4, 314	35, 653	1, 057	67, 971, 252	2, 109, 149	3, 418	70
Grounds east of 66° W. long	17.215	204	35, 398	1,050	8, 146, 268	173.465	3, 363	69
Grounds east of 66° W. long Grounds west of 66° W. long	17,215 265,572	4, 110	255	1,000	8, 146, 268 59, 824, 984	1, 935, 684	55	1
	130, 155	1, 837	-00		56, 124, 378	2 052 121	00	
Landed at Boston in 1923								
Landed at Boston in 1923 Landed at Gloucester in 1923	34, 115	262	108, 895	3, 219	7, 711, 991	98, 411	41,610	922

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924—Continued

lonne li	Hade	lock—C	Continue	d		Ha	ke	
Months	Scrod	(1 to 1)	2 pound	s)	Large	(6 pour	nds and o	over)
	Fres	h	Salt	ed	Fre	sh	Salt	ed
LANDED AT BOSTON					demonst	26. 58	THAT	
	Pounds	Value		100000			Pounds	Value
January	1, 175, 570	\$35, 274			24, 525 5, 250	\$1, 284		
February	1, 094, 260	16,904 25,107			3, 250	165		
March	843, 790 727, 480	10, 417			12,850			11161
pril	708, 680	9,822			4, 935			
day une	740, 265	7, 578			6, 350			
uly	472, 248	4, 323			166, 855			
ugust	495, 255	5, 306			2, 570	59		07.00
eptember	993, 285	11, 353			1, 727	34		
Detober	1, 281, 265	16, 423			65, 375	1, 251		
November	1, 125, 865	17, 187			75,020	1,477		
December	1, 366, 785	30, 833			220, 055	9, 595		
Total	11, 023, 748	190 597			588, 667	19 103		
LANDED AT GLOUCESTER		100,021		10		10,100	aogat.	
	_			1.1	7, 700	420		Taries
anuary February	6,015				10, 280	513	55	\$
arch					2, 410		00	4
pril					3, 645	37	1, 430	2
day					1,940		324	AV8
une					25, 130	314	2,655	4
uly					21,714	403	4, 315	6
lugust					39, 475	464	3, 765	7
September					31, 845		3, 215	5
October					59, 035	882	2,975	5
November December		152			37, 355 10, 570	704 450	1, 400	3
Total	468, 165	5,009			251,099		20, 134	35
LANDED AT PORTLAND					201,000			
			1.1					and the
anuary		644			3, 300			
Sebruary					5, 195			
March	33, 555				1,120 55			
May	7, 160				1,015			
une		137			1,015	00		
uly	18,760				555	36		
lugust		119			200			
September		136		\$27	50			
Detober	50, 160	262			560	5		
November	82,796	470			4,400	76		
December	69, 359	516			3, 325	133		
Total	433, 827	3, 823	1, 365	27	19, 775	. 777		
Grand total	11, 925, 740	199, 359	1, 365	27	859, 541	24, 674	20, 134	35
Grounds east of 66° W. long	66, 425	936	1, 365	27			15, 730	27
Landad at Boston in 1000	11, 859, 315	198, 423			798, 671	23, 774	4, 404	7
Grounds east of 66° W. long Grounds west of 66° W. long Landed at Boston in 1923	4, 416, 268	90, 726	1,975	35		6,062		
Landed at Gloucester in 1923 Landed at Portland in 1923	100, 585	670			571, 985		16, 255	28
Landou at 1 Oluanu III 1920	326, 867	3,050			38, 795	806	1, 184	2

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924—Continued

todilali	Ha	ke—Cor	tinued			Pollo	1-		
Months	Small	(under	6 pounds	5)	TOHOCK				
in Prevent Value Contas Statut	Free	sh	Salt	ed	Fres	h a a	Salt	ed	
LANDED AT BOSTON			10.00			10.1		1020123 0.0701	
1. 201, 7 12 44, 287	Pounds	Value	Pounds		Pounds	Value	Pounds	Value	
January	435, 081	\$17, 229			198,052	\$9, 896			
February	324, 305	13, 500			117, 916	6, 203			
MarchApril	334, 270	12,881			77, 427	4,606			
May	190,625 74,435	8, 539 2, 741			95,535 105,580	4, 792 4, 351			
June	182,060	4, 735	150	\$7	105,580 129,752	4, 351 5, 420			
fulv	33, 200	4, 755	150	Φ1	129, 752	4, 888			
August	159,650	3, 557			158,008	6, 685			
September	712, 586	14, 080			256, 483	7,776			
October	1, 221, 540	19, 564	1,000	25	241, 428	6, 207			
November	1, 000, 805	17,638	1,000	20	251,075	6, 815			
December	441, 470	14,042			403, 764	16, 648			
Total.	5, 110, 027	129, 356	1,150	32	2, 144, 519	84, 287			
LANDED AT GLOUCESTER									
January		R			67, 230	4,035		1.000	
February					21, 752	4,035			
March	102. IV				9,080	424	600	\$	
Anril					35, 355	1, 572			
May					10, 923	110			
Iune					21, 965	237	50		
April May June July					42,023	585	3,355	6	
August					22,810	450			
September					154,890	3, 507	2,615	4	
August September October					879, 840	18, 260	1,860	4	
November					853, 410	20,658			
December					170, 315	9, 923			
Total					2, 289, 593	60, 640	11, 390	21	
LANDED AT PORTLAND		1.000	의 만						
January	177 500	6,135			63,018	2,010		1.1.1	
February	177, 509 87, 323	3, 904			45, 973	1, 649			
March	37, 458	1 460			40, 973	1, 488		9	
April	70, 178	2, 252			100, 164	1,008			
May	54, 559	1, 358	2522222		25, 872	336			
June	35, 874	621	590	12	52,638	1,445			
July	71, 284	994			67,854	1,607	85		
August	24, 830	338			46,699	1,256			
September	27, 564	628			54, 406	1, 194		·	
October	319, 490	5,370			47, 788	921	695		
November	260, 935	4, 494			40, 202	704	110		
December	126, 165	4, 123			18, 026	561			
Total	1, 293, 169	31, 677	590	12	632, 826	14, 179	6, 950	11	
Grand total	6, 403, 196	161, 033	1, 740	44	5, 066, 938	159, 106	18, 340	33	
Grounds east of 66° W long	72, 735	1,757	1. 0.2.		448, 525	10, 528	12, 295	21	
Grounds east of 66° W. long Grounds west of 66° W. long	6, 330, 461		1,740	44		148, 578			
Landed at Boston in 1923	4, 377, 145	92,001	1,500			104, 125			
Langed at Doston in 1920									
Landed at Gloucester in 1923					1, 122, 362	35,392 11,860		76	

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Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924—Continued

	Kanal Yo	Cus	sk	11		Halib	ut	
Months	Fres	h	Salt	ed	Free	sh	Salte	ed
LANDED IN BOSTON	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Tampour	122, 565			, and	30, 214	\$10, 267	. oundo	, and
January February	100, 215				60, 073	16, 087	THE MANT	
March	215, 085				234, 752	44, 325		
A pril	237,615				487,000	89, 916		BELLER
May	128, 153				681, 147	127, 155		
une	64, 335	967			495, 963	127, 155 86, 250		(Long 1
uly	38, 545				489, 390	81, 450		list
ngust	31, 370				723, 911	97.498		
eptember	98, 330				503, 564	104,080		0.510
October	222,640				165, 972	35, 787		
November	279, 515				43, 438	11, 379		Lunc
December	322, 208				19, 203	7,752		
Total	1, 860, 576	38, 443			3, 934, 627	711, 946		
LANDED AT GLOUCESTER								
January	1,200	15		D. Comp		and a stand		
February	450		55	\$1		10.121	manifest a	
March	1,920		00	Ψ				
A pril	38, 230		1,430	23				10000000
May	118,620		3,730	84			105	\$13
une	26, 570	406	3, 780	84				34
ulv	110, 115		8,095	166			85	11
August	160, 580		22, 315	535	10,605	954		21.1
September	93, 195		9,685	230	10,000			6.000
October	115, 300		6, 380	185				
November	24, 735		45	1				to trank
December	480							
Total	691, 395	11, 009	55, 515	1, 309	10, 605	-954	530	58
LANDED AT PORTLAND			-2					
January	83,665	2,429			1,850	353		
February	99, 197				1, 087	210		
March	69,660	1,873	125	1	3, 999	660		
April	134, 560				86,091	12, 154		
May			600	12	60, 377	10,099		
une	8, 521	201	300	6	128, 166	19,099		
uly		454			90, 522	12,993		
August	13, 213	270			21, 235	3, 212		
September	23, 056	512	3,630	100	25, 541	6, 298		
	139,065		1,415	35	54, 567	11, 140		
October		1,658			1, 687	266		
October November	85, 796				1, 262	167	لاستعماده	
October November December	85, 796 63, 993	1, 729			-,			
October November December Total	85, 796 63, 993 792, 035	1, 729 17, 199	6, 070	154	476, 384	76, 651		
October November December Total Grand total	85, 796 63, 993	1, 729 17, 199	6, 070			76, 651 789, 551	530	58
October November December Total Grand total Grounds east of 66° W.long	85,796 63,993 792,035 3,344,006 433,945	$ \begin{array}{r} 1,729 \\ \overline{17,199} \\ \overline{66,651} \\ \overline{7,039} \end{array} $	6, 070 61, 585 36, 085	154 1,463 792	476, 384 4, 421, 616 3, 097, 703	789, 551 505, 432	530	58
October November December Total Grand total Grand total Grounds east of 66° W.long Frounds west of 66° W long	85, 796 63, 993 792, 035 3, 344, 006 433, 945 2, 910, 061	$ \begin{array}{r} 1,729 \\ \overline{17,199} \\ \overline{66,651} \\ \overline{7,039} \\ 59,612 \end{array} $	6, 070 61, 585 36, 085 25, 500	154 1, 463 792 671	476, 384 4, 421, 616 3, 097, 703 1, 323, 913	789, 551 505, 432 284, 119		
October November December Total Grand total Grounds east of 66° W. long Grounds west of 66° W long Landed at Boston in 1923	85, 796 63, 993 792, 035 3, 344, 006 433, 945 2, 910, 061 1, 516, 969	$ \begin{array}{r} 1,729\\ \hline 17,199\\ \hline 66,651\\ \hline 7,039\\ 59,612\\ 31,408\\ \end{array} $	6, 070 61, 585 36, 085 25, 500 23, 000	154 1, 463 792 671 690	476, 384 4, 421, 616 3, 097, 703 1, 323, 913 3, 560, 375	789, 551 505, 432 284, 119 679, 259		
October November December Total	85, 796 63, 993 792, 035 3, 344, 006 433, 945 2, 910, 061	$ \begin{array}{r} 1,729\\ \hline 17,199\\ \hline 66,651\\ \hline 7,039\\ 59,612\\ 31,408\\ 3,545\\ \end{array} $	6, 070 61, 585 36, 085 25, 500	154 1, 463 792 671	476, 384 4, 421, 616 3, 097, 703 1, 323, 913	789, 551 505, 432 284, 119		58

Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924—Continued

Diff. YA	Mack	erel	ANS.		Miscell	aneous ¹	
Free	sh	Salte	d	Fres	h	Salt	ed
		D		Dent		D	
	Value	Pounas	Value				Value
	\$10 0TC					100 000	
		19.000	e1 100				
2, 034, 589							
120, 160	17, 781						
				297, 047	19, 695		
6, 181, 439	337, 933	137, 070	9, 983	6, 639, 764	629, 185	180, 000	4, 500
0.0300		100.00		10.03	in a start start	(a ajesc)	
Sales and	Star 14		1.0	1			
						529, 080	17,830
48, 162					3, 474		
481, 087							
734, 054	32, 805	395, 600	32, 821	56,000	840		
	12, 703			44,000			
153, 791	22, 784	60, 830	7,143	2,080	42		
15, 645	2, 928			124, 978	5, 053	1, 986, 400	75, 353
1, 835, 861	91, 093	1, 105, 124	80, 394	634, 458	12, 437	2, 763, 480	103, 871
6, 6822 597	738,600		12				
			1.1	3 119	184		
	5 358						
33 521	604		24				
108 590							
	3 010	00, 400	1,002				
					2 044		
9 994		100	0				
				939			
457,022	21, 297	40, 993	1,084	1, 424, 829	51,002		
	450, 323	1, 283, 187	91, 461	8, 699, 051	692, 624	2, 943, 480	108, 371
903.043	52.951	74.700	5, 509	239, 829	50, 285	2, 943, 480	108, 371
						.,, 200	
						8,600	258
917, 094		71, 405		445, 061	30, 511	-,, 500	10,001
	Pounds 79, 986 1, 300, 619 1, 122, 907 2, 034, 589 1, 172, 312 350, 866 120, 160 6, 181, 439 6, 181, 439 7, 380 7, 4054 7, 199, 308 734, 054 7, 199, 308 734, 054 7, 199, 308 734, 054 15, 645 1, 835, 861 7, 15, 645 7, 18, 834 7, 15, 645 7, 18, 834 7, 15, 700 7, 8, 684 7, 33, 521 198, 529 128, 304 15, 750 2, 234 7, 571, 279 6, 580, 066 3, 187, 263	Fresh Pounds Value 79,986 \$12,376 1,300,619 90,839 1,122,907 48,413 2,034,589 70,727 1,172,312 69,348 350,866 28,449 120,160 17,781 6,181,439 337,933 48,162 4,722 481,087 11,372 199,308 3,600 734,054 32,805 202,434 12,784 15,791 22,784 15,645 2,928 1,835,861 91,093 53,5202,434 12,703 153,791 22,784 15,645 2,928 1,835,861 91,093 53,521 604 198,529 9,405 5128,304 3,919 15,750 1,654 2,234 357 33,521 604 198,529 9,405 128,304 3,919 15,750	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Fresh Salted Pounds Value Pounds Value 79,986 \$12,376	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$

¹ Includes herring from Newfoundland, 2,943,480 pounds salted, value \$108,371.

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Statement, by months, of quantities and values of certain fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by American fishing vessels during the year 1924—Continued

		Tota	1		n West	
Months	Free	sh	Salt	ed	Grand	total
LANDED AT BOSTON					reor ta en	and the second
	Pounds	Value		Value	Pounds	Value
January	8, 842, 660				8, 842, 660	
February	13, 374, 545		*********		13, 374, 545	
March	12, 414, 063				12, 414, 063	498, 98
April	9,832,878		180 000	24 200	9,832,878	349, 43
day	9,097,636 9,959,691	457, 628		\$4,500 1,382	9, 277, 636 9, 977, 841	380, 23 459, 01
uly	10, 209, 570	551, 805		1,916		553, 72
ugust	10, 686, 544	495, 807	77,300	5,352	10, 763, 844	501, 15
eptember	12, 903, 707	526,779		1, 595		528, 37
ctober	12, 930, 533	453, 630		25	12, 931, 533	453, 65
lovember.	9, 584, 472	341, 344	11,000	358	9, 595, 472	341, 703
ecember	10, 794, 737	479, 209	********		10, 794, 737	479, 20
Total	130, 631, 036	5, 386, 462	335, 220	15, 128	130, 966, 256	5, 401, 59
LANDED AT GLOUCESTER				0.000	8,000,00 76 P	CANON A
anuary	148,755	9,142	248,000	10,688	396, 755	19,83
ebruary	2, 250, 543	54,024	533, 755	18,049	2, 784, 298	72,07
larch.	1, 892, 240	54, 599	11, 150	468	1,903,390	55,06
pril	2, 916, 670	77,068	125, 586	5, 296	3, 042, 256	
lay	3,007,904	66,037	275, 569	11, 791	3, 283, 473	77, 82
100	3, 263, 157	69, 527 110, 479	864,088	38,708	4, 127, 245	108, 23
ıly ugust	5, 407, 629 4, 035, 358	83, 156	607, 606 716, 578	28, 744 39, 843	6,015,235 4,751,936	139, 223
aptember	2, 503, 644	76,008	910, 985	58, 305	3, 414, 629	134, 31
eptember ctober	1,978,979	49, 141	215, 880	12,066	2, 194, 859	61, 207
ovember	1, 394, 206	53, 164	87,000	8, 565	1,481,206	61, 729
ecember	464, 238	31, 255	1, 986, 400	75, 353	2, 450, 638	106, 600
Total	29, 263, 323	733, 600	6, 582, 597	307, 876	35, 845, 920	1, 041, 476
LANDED AT PORTLAND						1000
anuary	915, 086	43, 494			915, 086	43, 494
ebruary	894, 931	32, 259	3,065	92	897, 996	32, 351
arch.	2, 609, 147 2, 745, 430	64,391 65,344	10,900 24,925	315	2,620,047	64, 700
prilay	1, 110, 795	34, 429	24, 925 2, 530	1,005	2,770,355 1,113,325	66, 349
ne	899, 381	49, 716	19, 930	883	919, 311	34, 526 50, 599
ıl y	1, 207, 489	49,772	11, 345	456	1.218.834	50, 228
ugust	1, 148, 617	49,961	38, 635	1,062	1, 187, 252	51,023
eptember	803, 383	38, 215 47, 502	42,645	1,808	846, 028	40, 023
ctober	1, 467, 576	47, 502	51, 038	2, 785	1, 518, 614	50, 287
ovember	1, 329, 944 795, 411	34, 374 31, 796	3, 815	130	1, 333, 759 795, 411	34, 504 31, 796
Total	15, 927, 190	541, 253	208, 828	8, 633	16, 136, 018	549, 886
Grand total	175, 821, 549	6, 661, 315	7, 126, 645	331, 637	182, 948, 194	6, 992, 952
rounds east of 66° W. long	28, 388, 823	1, 197, 065	5, 289, 119	216, 575	33 677 040	1 412 640
rounds west of 66° W. long	147, 432, 726	5, 464, 250	1, 837, 526	115, 062	33, 677, 942 149, 270, 252	1, 413, 640 5, 579, 312
anded at Boston in 1923	123, 962, 419	5, 418, 752	252, 615	14, 979	124, 215, 034	5, 433, 731
anded at Gloucester in 1923	29, 012, 013	648, 929	6,017,835	261, 810	35, 029, 848	910, 739
	15, 221, 461	686, 515	475, 126	20, 169	15, 696, 587	706, 684

The fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by fishing vessels each year are taken chiefly from fishing grounds off the coast of the United States. In the calendar year 1924, 81.53 per cent of the quantity and 79.75 per cent of the value landed by fishing vessels were from these grounds; 2.75 per cent of the quantity and 5.22 per cent of the value, consisting principally of cod, halibut, and herring, were from fishing banks off the coast of Newfoundland; and 15.72 per cent of the quantity and 15.03 per cent of the value were from fishing grounds off the Canadian Provinces. There was some increase, compared with the previous year, in the percentage of products from grounds off the coast of the United States and a decrease in the percentage from grounds off the Canadian Provinces. There was very little change in the percentage from off the coast of Newfoundland. Newfoundland herring constituted 1.61 per cent of the quantity and 1.55 per cent of the value of the fishery products landed at these ports during the year. The herring were taken from the treaty coast of Newfoundland, and the cod, haddock, hake, halibut, and other species from that region were obtained from fishing banks on the high seas. All fish caught by American fishing vessels off the coast of the Canadian Provinces were from offshore fishing grounds. The catch from each of these regions is given in the following table:

Quantity and value of fish landed by American fishing vessels at Boston and Gloucester,
Mass., and Portland, Me., in 1924, from fishing grounds off the coasts of the
United States, Newfoundland, and Canadian Provinces

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Species	United	States	Newfour	ndland	Canadian	Provinces	То	tal
Cod:	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Fresh	43, 699, 307	\$1,613,828	89,930	\$2,653	14, 866, 650	\$392, 364	58, 655, 887	\$2,008,843
Salted	591, 295	28, 210	494, 109	23, 332	1,707,462	77,919	2, 792, 866	129, 461
Haddock:	TRE Phil	then the	3.21.31	100000				
Fresh	71, 611, 799	2, 132, 762	425	5	8, 284, 768	175, 741	79, 896, 992	2, 308, 508
Salted	55	1	40		4.688	95		97
Hake:	Sec. Sugar	12-12-5 A.S.	and here					
Fresh	7, 129, 132	183,050	43,650	1,052	89,955	1,605	7, 262, 737	185, 707
Salted	6, 144		7,690	133	8,040	146	21,874	394
Pollock:	10.000	110 22020						
Fresh	4,618,413	148, 578	111.0		448, 525	10, 528	5,066,938	159, 106
Salted	6,045	113	1, 205	26		193	18,340	332
Cusk:	MLV., 2.050	0.000 1.0	5,000 <u>5</u> ,6		1.1.000.000	1. X. L. M. L.		
Fresh	2, 905, 946	59, 555	40, 515	501	397, 545	6, 595	3, 344, 006	66,651
Salted	25, 500	671	10, 295		25, 790	587	61, 585	1,463
Halibut:	nston.cl	0. ct. 13	6159.01-3		11111111111			
Fresh	1, 323, 793	284,083	1, 387, 091	227, 254	1,710,732	278, 214	4, 421, 616	789, 551
Salted	V 8110.7		190		340		530	58
Mackerel:	a construction of the second							
Fresh	7, 571, 279	397, 372			903, 043	52,951	8, 474, 322	450, 323
Salted	1, 208, 487	85, 952			74,700		1, 283, 187	91,461
Herring:	1	1000 1000 0000	0.0104360613					
Fresh	1, 467, 256	19,496					1, 467, 256	19,496
Salted	11000.000		2,943,480	108, 371			2, 943, 480	108, 371
Swordfish: Fresh	1,825,742	400, 636				47, 341	2,023,416	449, 837
Miscellaneous: Fresh.	5, 166, 224	222, 207			41, 985		5, 208, 379	223, 291
Ind PERE Date								
Total	149, 156, 417	5, 576, 629	5,027,819	365, 427	28, 763, 958	1,050,896	182, 948, 194	6, 992, 952

210,12 the bedlav, ebdung 5. SPECIES

L DURIOD W18 3,934,627 DOILING

COD

In 1924 there was an increase of 37 vessels, or 12.09 per cent, in the fishing fleet landing fish at Boston, Gloucester, and Portland, as compared with 1923. There were 5 vessels in the salt-bank fishery and 102 in the market fishery. These vessels landed their fares of

cod and other ground fish at the above-named ports during the year, and large quantities were also landed by vessels fishing on the shore grounds. The catch of cod landed at these ports during the year was 61,448,753 pounds, valued at \$2,138,306, of which 58,655,887 pounds, valued at \$2,008,845, were landed fresh and 2,792,866 pounds, valued at \$129,461, were landed salted. Cod ranked second in both quantity and value among the various species landed.

HADDOCK

Haddock ranked first in both quantity and value, the catch exceeding that of cod by 18,453,022 pounds in quantity and \$170,299 in value. The quantity of haddock landed at these ports by fishing vessels during the year was 79,901,775 pounds, valued at \$2,308,605, all landed fresh except 4,783 pounds, valued at \$97, landed salted. These fish were taken chiefly from Western Bank, Browns Bank, Georges Bank, South Channel, and Nantucket Shoals, and about 44 per cent of the quantity and 38 per cent of the value were taken in the otter-trawl fishery. The greater part of the catch (68,142,309 pounds, valued at \$2,037,661) was landed at Boston.

HAKE

The catch of hake amounted to 7,284,611 pounds, valued at \$186,101, all landed fresh except 21,874 pounds, valued at \$394, landed salted. Of this catch 5,699,844 pounds, valued at \$148,491, were landed at Boston; 271,233 pounds, valued at \$5,144, at Gloucester; and 1,313,534 pounds, valued at \$32,466, at Portland. About half of the catch was taken in South Channel, and about 78 per cent was landed at Boston.

POLLOCK

The catch of pollock amounted to 5,085,278 pounds, valued at \$159,438, all landed fresh except 18,340 pounds salted, valued at \$332. The catch was obtained largely from Georges Bank, South Channel, and the shore grounds, and most of it was landed at Boston and Gloucester.

CUSK

The catch of cusk amounted to 3,405,591 pounds, valued at \$68,114, all landed fresh except 61,585 pounds salted, valued at \$1,463. More than half of the catch was landed at Boston. There was an increase in the catch, as compared with the previous year, of 407,385 pounds, valued at \$6,386.

HALIBUT

The catch of halibut amounted to 4,422,146 pounds, valued at \$789,609, all landed fresh except 530 pounds salted, valued at \$58. There was a decrease of 9.28 per cent in the quantity and 14.44 per cent in the value of the halibut landed in 1924, as compared with the previous year. The quantity landed at Boston was 3,934,627 pounds, valued at \$711,946; at Gloucester, 11,135 pounds, valued at \$1,012; and at Portland, 476,384 pounds, valued at \$76,651.

MACKEREL

The total catch of fresh mackerel taken by the American fishing fleet in 1924 was 102,067 barrels, or 15,310,050 pounds, compared with 121,982 barrels, or 18,297,300 pounds, in 1923, a decrease of

19,915 barrels, or 2,987,250 pounds. The total catch of salted mackerel landed by the fishing fleet was 10,841 barrels, or 2,168,200 pounds, compared with 3,864 barrels, or 772,800 pounds, in 1923, an increase of 6,977 barrels, or 1,395,400 pounds. In 1924 about .8,000 barrels of salted mackerel were prepared from mackerel landed fresh, as compared with about 15,000 barrels in 1923. The quantity of mackerel landed at Boston, Gloucester, and Portland by fishing vessels during the year was 9,757,509 pounds, valued at \$541,784, of which 8,474,322 pounds, valued at \$450,323, were fresh and 1,283,187 pounds, valued at \$91,461, were salted. There was a decrease of 1,807,719 pounds in the total catch of mackerel landed by fishing vessels at these ports and an increase of \$54,147 in value as compared with 1923.

In 1924 the catch of mackerel up to July 3 was 38,916 barrels fresh and 860 barrels salted, compared with 25,879 barrels fresh and 346 barrels salted for the same period in 1923. The southern mackerel seiners had the best season for many years, but the gill-netters had a comparatively poor season. The mackerel taken by the seiners weighed about 1 pound each. The fleet was about the same size as last year. The first catch was landed at Cape May on April 8 and consisted of one barrel of blink mackerel, weighing three fish to the pound. These fish were landed one day earlier than the first mackerel were landed the previous season.

A large body of small mackerel was reported in the south. Large schools of large mackerel were also seen off Block Island late in the spring, but they were "wild", and it was impossible to seine them. The small mackerel landed by the southern fleet sold at from 7 to 15 cents per pound and the large ones at 9 to 25 cents per pound, according to market conditions. The first arrival of mackerel at Boston direct from the fleet was on May 16 and consisted of 5,000 pounds of large fresh fish, which were sold at 22 cents per pound. The Cape Shore mackerel fleet was about the same size as in 1923, but there was a decline in the catch. A considerable quantity of small mackerel was landed from the Cape Shore, which was unusual. The first arrivals of mackerel at Boston from the Cape Shore were two fares on July 9, consisting of 56,000 pounds of fish weighing $1\frac{1}{4}$ pounds each and 30,000 pounds of large mackerel. The mackerel sold at from 8 to $8\frac{1}{2}$ cents per pound.

The quantity of mackerel salted by the Cape fleet was small but larger than last year. They were about half mediums, and counted from 260 to 300 fish to a barrel. They sold from the vessel at \$14 per barrel, as compared with \$11 per barrel the previous year.

The Cape Shore catch of mackerel for the past five years, shown in pounds, was as follows:

Year	Trips	Fresh	Salted
1924	24	996, 000	170, 800
1923 1922	24 31 38 29 30	1, 240, 680 1, 353, 900	170,800 42,200 468,800
1921	29 30	2, 160, 100 1, 290, 000	628, 400 443, 400

SWORDFISH

The catch of swordfish amounted to 2,023,416 pounds, valued at \$449,837. There were 45 vessels engaged in this fishery, or 7 less than in the previous year. There was a decrease in the catch of 17.59 per cent in quantity but an increase of 0.38 per cent in value.

FLOUNDERS

The catch of flounders in the vessel fisheries amounted to 4,335,227 pounds, valued at \$191,515, an increase of 898,407 pounds, or 26.14 per cent, in quantity and of \$27,832, or 17 per cent, in value. The catch taken by boats under 5 tons net tonnage is not included in these statistics.

HERRING

The catch of herring amounted to 4,410,736 pounds, valued at \$127,867. Of this quantity 1,467,256 pounds, valued at \$19,496, were taken off the coast of the United States and landed fresh, and the remainder, consisting of 2,943,480 pounds salted, valued at \$108,371, were Newfoundland herring.

OTTER-TRAWL FISHERY

In 1924 there were 543 trips landed at Boston, Gloucester, and Portland by 32 otter-trawl vessels, amounting to 46,703,035 pounds of fish, valued at \$1,327,731, or 25.53 per cent of the quantity and 19.99 per cent of the value of the total catch landed by fishing vessels at these ports during the year. The catch included cod, 8,231,430 pounds, valued at \$286,562; haddock, 35,197,940 pounds, valued at \$867,756; hake, 616,853 pounds, valued at \$18,210; pollock, 1,028,032 pounds, valued at \$39,467; cusk, 10,720 pounds, valued at \$460; halibut, 94,221 pounds, valued at \$22,069; and other species, 1,523,839 pounds, valued at \$93,207. The catch by otter trawls consists principally of haddock, which in 1924 amounted to 44.05 per cent of the quantity and 37.59 per cent of the value of the entire catch of this species landed by fishing vessels at these ports. The otter-trawl catch was taken chiefly from Western Bank, Georges Bank, South Channel, and Nantucket Shoals.

Compared with the previous year, there was one vessel less engaged in this fishery and a decrease of 122 trips, or 18.35 per cent, and of 7,595,254 pounds, or 13.99 per cent, in the quantity, and of \$368,590, or 21.73 per cent, in the value of the products landed.

The following tables give, by fishing grounds and months, the catch landed by otter trawlers at these ports in 1924 and also the catch of cod, haddock, and hake landed by them in various years.

Fishery products landed at Boston and Gloucester, Mass., and Portland, Me., by otter trawlers in 1924

n porta printessois of	Trips	anas	Cod	No.	n.b	Hadd	lock	Hal	xe	Po	llock
BY FISHING GROUNDS East of 66° W. longitude	10 9 10 10	tic offer	id di		2.1.1	dinin dinin	nexu. br so	e 164 Derre	i aqu dosti autori	11 MP 23W	ndeo Titti
Western Bank	No.	Poun 3, 915,		alue		ounds 890-167	Value \$140, 472	Pounds 7, 220	Value \$184		8 Valu 4 \$9, 29
West of 66° W. longitude	0.	0, 010,	000 01	., 500	0, 1	550, 107	\$110, 112	00000	φισι	002, 02	
This ball a new second	dam	ind of		67.03	140					Bar te	Jula .
Georges Bank South Channel Nantucket Shoals Off Chatham			102 1 935 1	71, 626 79, 782 15, 765 1, 454	15,4	522, 130 430, 565 151, 748 203, 330	402, 226 179, 234	16,495 438,503 139,525 15,110	$506 \\ 13,270 \\ 3,795 \\ 455 $	435, 12 119, 30	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Total	543	8, 231, 4	430 28	86, 562	35, 3	197, 940	867, 756	616, 853	18, 210	1, 028, 03	2 39, 46
BY MONTHS	1983	Me.,	har	The	6 6	ITD 7/8	N ges			(a)	
January				31, 727		829, 195	119, 519	81, 775 31, 050	3,290	129, 49	
February March		947, 1, 189,		27,207 14,182		818,480 869,788		31,050 22,250	1,333	57, 12	
April		1, 129,		27, 495		824, 485	73, 583	10, 840	606	140, 84	
May				1.979		499, 890	73, 770	42,820	1,553	50, 05	
June		171,	055	6,584	2,	759, 815	53, 279	153, 120	3,853	9, 94	0 36
July				13,208		149, 843	34, 917	30, 045	687	28, 91	
August	23			22, 194		357, 140		12, 445	276	25, 93	
September			892 1	17,017	1,	972, 225	32,860	56,400		51, 17	8 1,41
October	53		642	17, 736	2,	757, 680	53, 052	58, 228	918	28,80	
November December	44 59			$24,021 \\ 43,212$		844, 769 514, 630		51,950 65,930	$964 \\ 2,653$		4 3,96
Total		8, 231,	430 20	36,562	35,	197,940	867,756	616,853	18, 210	1, 028, 03	2 39, 46
	1001	211	11	81 10	_	197, 940			18, 210		
		6, 251, Cus	11	81 10	35, . [ali]			616, 853 laneous	18, 210	1, 028, 03 Tota	
BY FISHING GROUNDS		211	11	81 10	_				18, 210		
BY FISHING GROUNDS East of 66° W. longitude		211	k	Pour	[ali]		Miscel	laneous		Tota inds	
BY FISHING GROUNDS East of 66° W. longitude Western Bank. West of 66° W. longitude	I	Cus	k Value	Pour	[ali]	out Value	Miscel	laneous	e Por	Tota inds	l Value
BY FISHING GROUNDS East of 66° W. longitude Western Bank West of 66° W. longitude Georges Bank		Cus Pounds 205 6, 100	k Value \$4 305	Pour 28, 20,	alit nds 817 660	Value \$5, 325 5, 438	Miscel Pound 40, 7 250, 3	laneous <i>s</i> Valu 85 \$1,03 00 17,39	e Poi 18 11, 26 13 7, 91	Tota <i>inds</i> 5, 401 2, 325	Value \$274, 24 237, 30
BY FISHING GROUNDS East of 66° W. longitude Western Bank West of 66° W. longitude Georges Bank South Channel	I	Cus Pounds 205 6, 100 3, 885	k Value \$4 305 124	Pour 28, 20,	alit nds 817 660	Value \$5, 325 5, 438 10, 359	Miscel Pound 40, 7 250, 3 924, 3	laneous <i>s</i> Valu 85 \$1,03 00 17,39 63 56,45	e Pou 8 11, 26 93 7, 91 98 19, 25	Tota <i>inds</i> <i>i</i> 5, 401 <i>2</i> , 325 0, 769	Value \$274, 24 237, 30 582, 13
BY FISHING GROUNDS East of 66° W. longitude Western Bank West of 66° W. longitude Georges Bank South Channel		Cus Pounds 205 6, 100	k Value \$4 305	Pour 28, 20, 41, 3,	(ali) nds 817 660 223 324	Value \$5, 325 5, 438 10, 359 855	Miscel Pound 40, 7 250, 3 924, 3 288, 5	laneous s Valu 85 \$1,03 00 17,39 63 56,45 25 16,25	e Pou 88 11, 26 33 7, 91 88 19, 25 77 7, 98	Tota <i>inds</i> <i>i5</i> , 401 <i>2</i> , 325 0, 769 <i>2</i> , 887	Value \$274, 24 237, 30 582, 13 221, 21
BY FISHING GROUNDS East of 66° W. longitude Western Bank	H	Cus Pounds 205 6, 100 3, 885 530	k Value \$4 305 124 27	Pour 28, 20, 41, 3,	(ali) nds 817 660 223 324 197	5, 438 5, 438 10, 359 855 92	Miscel Pound 40, 7 250, 3 924, 3 288, 5 19, 8	$\begin{array}{c c} laneous\\ s & Valu\\ 85 & \$1, 03\\ 00 & 17, 39\\ 63 & 56, 45\\ 25 & 16, 25\\ 66 & 2, 06 \end{array}$	e Pou 8 11, 26 3 7, 91 8 19, 25 77 7, 98 11 29	Tota <i>inds</i> <i>i</i> 5, 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653	Value \$274, 24 237, 300 582, 13 221, 21 12, 82
BY FISHING GROUNDS East of 66° W. longitude Western Bank	H	Cus Pounds 205 6, 100 3, 885	k Value \$4 305 124	Pour 28, 20, 41, 3,	(ali) nds 817 660 223 324	Value \$5, 325 5, 438 10, 359 855	Miscel Pound 40, 7 250, 3 924, 3 288, 5 19, 8	$\begin{array}{c c} laneous\\ s & Valu\\ 85 & \$1, 03\\ 00 & 17, 39\\ 63 & 56, 45\\ 25 & 16, 25\\ 66 & 2, 06 \end{array}$	e Pou 88 11, 26 33 7, 91 88 19, 25 77 7, 98	Tota <i>inds</i> <i>i</i> 5, 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653	Value \$274, 24 237, 30 582, 13 221, 21
BY FISHING GROUNDS East of 66° W. longitude Western Bank West of 66° W. longitude Georges Bank South Channel Nantucket Shoals Off Chatham Total		Cus Pounds 205 6,100 3,885 530 10,720	k Value \$4 305 124 27 	Pour 28, 20, 41, 3, 94,	(ali) ands 817 660 223 324 197 221	5, 438 5, 438 10, 359 855 92 22, 069	Miscel Pound 40, 7 250, 3 924, 3 19, 8 1, 523, 8	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	e Poi8 11, 263 7, 918 19, 257 7, 9811 297 46, 70	Tota <i>unds</i> 5, 401 2, 325 0, 769 2, 887 1, 653 13, 035 1,	Value \$274, 24 237, 300 582, 130 221, 21; 12, 82 327, 73
BY FISHING GROUNDS East of 66° W. longitude Western Bank West of 66° W. longitude Georges Bank South Channel Nantucket Shoals Off Chatham Total		Cus Pounds 205 6, 100 3, 885 530	k Value \$4 305 124 27 460	Pour 28, 20, 41, 3, 94, 7, 12,	(ali) nds 817 660 223 324 197	5, 438 5, 438 10, 359 855 92	Miscel Pound 40, 7 250, 3 924, 3 285, 5 19, 8 1, 523, 8 92, 1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	e Pou 8 11, 26 3 7, 91 8 19, 25 7 7, 98 1 29 7 46, 70 8 3, 63	Tota <i>inds</i> <i>i</i> 5, 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653	Value \$274, 24 237, 300 582, 13 221, 21 12, 82
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus Pounds 205 6, 100 3, 885 530 10, 720 150 200	k Value \$4 305 124 27 	Pour 28, 20, 41, 3, 94, 12, 12, 10,	(ali) (ali)) (ali) (ali) (ali)) (ali) (ali)) ((ali)) (ali)) ((ali)) ((ali))) ((ali)) ((ali))) ((ali)	Value \$5, 325 5, 438 10, 359 855 92 22, 069 1, 954 3, 499 2, 643	Miscel Pound 40,7 250,3 924,3 288,5 1,523,8 1,523,8 92,1 88,5 127,6	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	e Poi 8 11, 26 3 7, 91 3 7, 91 3 7, 91 3 7, 91 3 7, 91 29 7 7, 98 1 29 7 46, 70 98 3, 63 9 5, 28	Tota <i>unds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653 <i>8</i> , 035 <i>1</i> , <i>2</i> , 479 <i>5</i> , 978 <i>7</i> , 910	Value \$274, 24 237, 300 582, 13 221, 21; 12, 82; 327, 73 172, 774 129, 06 129, 86;
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus 205 6,100 3,885 530 10,720 150 200 6,155	k Value \$4 305 124 27 460 3 300	Pour 28, 20, 41, 3, 94, 3, 7, 12, 3, 20, 3, 20, 3, 20, 3, 20, 41, 3, 20, 41, 3, 20, 41, 3, 20, 41, 3, 20, 41, 3, 20, 41, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	(ali) (ali)) (ali) (ali) (ali) (ali)) (ali) (ali)) ((ali)) (ali)) (ali)) ((ali)) ((ali))) ((ali)) ((Value \$5, 325 5, 438 10, 359 855 92 22, 069 1, 954 3, 492 2, 643 3, 773	Miscel Pound 40,7 250,3 924,3 288,5 19,8 1,523,8 92,1 88,5 127,6 169,7 169,7 169,7 169,7 169,7 169,7 169,7 169,7 189,7 189,7 199	laneous s Valu s Valu 00 17, 345 25 16, 25 66 2, 06 39 93, 20 25 9, 50 80 7, 59 71 8, 28 31 7, 03 31 7, 0	$\begin{array}{c c} e & Poi \\ 88 & 11, 26 \\ 88 & 19, 25 \\ 77 & 7, 98 \\ 1 & 29 \\ 77 & 46, 70 \\ 88 & 3, 63 \\ 11 & 4, 95 \\ 99 & 5, 28 \\ 45, 30 \\ \end{array}$	Tota <i>inds</i> 5, 401 2, 325 0, 769 2, 887 1, 653 3, 035 1, 2, 479 5, 978 7, 910 2, 140	Value \$274, 24 237, 300 582, 13 221, 21: 12, 822 327, 73 172, 774 129, 06 184, 86: 116, 26
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus 205 6,100 3,885 530 10,720 150 200 6,155	k Value \$4 305 124 27 460 300 80 80 80 80	Pour 28, 20, 41, 3, 94, 7, 12, 10, 9, 9,	(alih ads 817 6600 223 324 197 221 077 819 168 175 411	Value \$5, 325 5, 438 10, 359 855 92 22, 069 1, 954 3, 492 2, 643 3, 773 1, 818	Miscel Pound 40,7 250,3 288,5 19,8 1,523,8 92,1 88,5 127,6 169,7 167,7	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c} e & Pon \\ 8 & 11, 26 \\ 8 & 19, 25 \\ 7 & 7, 98 \\ 1 & 29 \\ 7 & 46, 70 \\ 1 & 4, 95 \\ 9 & 5, 28 \\ 4 & 5, 30 \\ 9 & 4, 27 \\ \end{array}$	Tota <i>unds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653 <i>3</i> , 035 <i>1</i> <i>2</i> , 479 <i>5</i> , 978 <i>7</i> , 910 <i>2</i> , 140 <i>5</i> , 266	Value \$274, 24 237, 300 582, 13 221, 21 12, 82 327, 73 172, 77 129, 06 184, 86 116, 26 96, 53
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus 205 6, 100 3, 885 530 10, 720 150 200 6, 155 2, 150 1, 340	k Value \$4 305 124 27 460 3 300	H 28, 28, 28, 94, 7, 12, 10, 20, 94, 94, 94, 94,	(alih ads 817 6600 223 324 197 221 077 819 168 175 411 021	Value \$5, 325 5, 438 10, 355 92 22, 069 1, 954 3, 499 2, 643 3, 773 1, 818 976	Miscel Pound 40,7 5250,3 924,3 288,5 1,523,8 92,1 88,5 127,6 169,7 167,7 112,8	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	e Por 8 11, 26 3 7, 91 8 19, 25 7 7, 7, 98 1 29 7 $46, 70$ 8 3, 63 1 4, 95 99 4, 27 4 3, 21	Tota <i>unds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653 <i>8</i> , 035 <i>1</i> , <i>2</i> , 479 <i>5</i> , 978 <i>5</i> , 978 <i>5</i> , 978 <i>5</i> , 926 <i>5</i> , 266 <i>5</i> , 266 <i>5</i> , 266 <i>5</i> , 260	Value \$274, 24' 237, 30: 582, 13: 221, 21: 12, 82: 327, 73 172, 774 129, 06; 116, 26' 96, 53: 68, 89:
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus 205 6, 100 3, 885 530 10, 720 150 200 6, 155 2, 150 1, 340	k Value \$4 305 124 27 460 300 80 80 80 80	H Pour 28, 20, 41, 3, 94, 7, 12, 20, 94, 3, 7, 12, 3, 10, 95, 3, 3, 3, 10, 95, 3, 10, 95, 3, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	(alih) ads 817 6600 223 324 197 221 077 819 168 175 4411 021 440	Value \$5, 325 5, 438 10, 359 92 22, 069 1, 954 3, 492 2, 643 3, 773 1, 818 976 610	Miscel Pound 40,7 250,3 924,3 288,5 19,8 1,523,8 92,1 88,5 127,6 169,7 5127,6 169,7 5127,6 112,8 120,9	laneous s Valu 85 \$1,03 00 17,39 63 56,45 25 16,25 66 2,06 39 93,20 25 9,50 80 7,58 71 8,28 17,030 806 63 3,44	$\begin{array}{c c} e & Pon\\ 8 & 11, 26\\ 3 & 7, 91\\ 8 & 19, 25\\ 7 & 7, 98\\ 1 & 29\\ 7 & 46, 70\\ 1 & 4, 95\\ 94\\ 8 & 3, 63\\ 11 & 4, 95\\ 94\\ 4 & 5, 30\\ 99\\ 4, 27\\ 44\\ 3, 21\\ 0 & 2, 85\\ \end{array}$	Tota <i>inds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653 <i>3</i> , 035 <i>1</i> , <i>5</i> , 978 <i>7</i> , 910 <i>5</i> , 978 <i>7</i> , 910 <i>5</i> , 266 <i>3</i> , 100	Value \$274, 24' 237, 300 582, 13' 221, 21' 12, 82' 327, 73 172, 774 129, 06' 184, 86' 116, 26' 96, 53' 68, 89' 53, 69'
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus 205 6, 100 3, 885 530 10, 720 150 200 6, 155 2, 150 1, 340	k Value \$4 305 124 27 460 300 80 80 80 80	H 28, 20, 41, 7 3, 94, 7, 12, 10, 9, 5, 3, 6,	(alih ads 817 6600 223 324 197 221 077 819 168 175 411 021 440 228	Value \$5, 325 5, 438 10, 355 92 22, 069 1, 954 3, 492 2, 643 3, 773 1, 818 976 610 1, 377	Miscel Pound 40,7 250,3 288,5 219,8 1,523,8 285,5 219,8 21,523,8 20,1 20,7 212,8 20,9 20,1 20,9 20,1 20,9 20,0 20,1 20,9 20,0 20,1 20,9 20,0 20,1 20,9 20,0 20,1 20,9 20,0 20,0 20,0 20,0 20,0 20,0 20,0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c} e & Poi \\ 8 & 11, 26 \\ 3 & 7, 91 \\ 8 & 19, 25 \\ 7 & 7, 98 \\ 1 & 29 \\ 7 & 46, 70 \\ 8 & 3, 63 \\ 1 & 4, 95 \\ 99 & 5, 28 \\ 4 & 5, 30 \\ 99 & 4, 27 \\ 1 & 3, 21 \\ 09 & 4, 27 \\ 1 & 3, 21 \\ 09 & 2, 33 \\ 9 & 2, 33 \\ \end{array}$	Tota <i>unds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653 <i>3</i> , 035 <i>1</i> <i>2</i> , 479 <i>5</i> , 978 <i>7</i> , 910 <i>2</i> , 479 <i>5</i> , 266 <i>3</i> , 100 <i>8</i> , 226 <i>3</i> , 100 <i>8</i> , 226 <i>7</i> , 320	Value \$274, 24' 237, 303 582, 133 221, 21; 12, 82; 327, 73 172, 774 129, 06; 184, 86; 116, 26' 96, 53; 68, 89; 53, 69; 54, 24'
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus Pounds 205 6, 100 3, 885 530 10, 720 150 2, 150 1, 340	k Valuu \$4 300 124 27 460 300 8 300 8 8 34	H Pour 28, 20, 41, 3, 994, 3, 7, 12, 10, 5, 20, 94, 8, 7, 12, 8, 7, 12, 8, 8, 8, 7, 12, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	falih nds 817 6600 223 324 197 221 221 077 819 168 175 411 021 440 228 162	Value \$5, 325 5, 438 10, 359 22, 069 1, 954 3, 492 2, 643 3, 773 1, 818 976 610 1, 377 1, 916	Miscel Pound 40,7 5250,3 924,3 288,5 1,523,8 92,1 88,5 127,6 169,7 167,7 112,8 92,12,6 6117,4 120,9 120,6 117,4 120,6 117,4 120,9 120,6 117,4 120,9 120,9 120,6 117,4 120,9 120,9 120,6 117,4 120,9 120,9 120,6 117,4 120,9 120,9 120,6 117,4 120,9	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	e Poi8 11, 263 7, 918 19, 2577 7, 9811 2977 46, 7018 3, 6311 4, 9519 5, 2814 3, 2110 2, 8519 2, 336 2, 79	Tota <i>inds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 387 <i>1</i> , 653 <i>8</i> , 035 <i>1</i> , <i>5</i> , 978 <i>7</i> , 910 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>4</i> , 100 <i>5</i> , 286 <i>5</i> , 303	Value \$274, 24 237, 300 582, 13 221, 21; 12, 82; 327, 73 172, 77 129, 06 116, 26 96, 53 68, 89 53, 69 54, 24 62, 59
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus 205 6, 100 3, 885 530 10, 720 150 200 6, 155 2, 150 1, 340	k Value \$4 305 124 27 460 300 80 80 80 80	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ialih nds 817 660 223 324 197 221 077 819 168 175 411 021 440 228 162 517	Value \$5, 325 5, 438 10, 359 92 22, 069 1, 954 3, 492 2, 643 3, 773 1, 818 976 610 (1, 377 1, 916	Miscel Pound 40, 7 250, 3 924, 3 288, 5 19, 8 1,523, 8 92, 1 88, 5 127, 6 169, 7 5,127, 6 169, 7 5,120, 9 120, 9 120, 6 5,120, 6 17, 4 138, 5 120, 9 120, 6 17, 4 138, 5 120, 9 120, 6 17, 4 138, 5 120, 9 120, 6 17, 4 138, 5 120, 7 120, 7 100, 7	$\begin{array}{c c} laneous\\ s & Valu\\ s5 & $1,03\\ 00 & 17,38\\ 25 & 16,25\\ 25 & 16,25\\ 25 & 16,25\\ 25 & 9,56\\ 39 & 93,20\\ 25 & 9,56\\ 80 & 7,58\\ 71 & 8,28\\ 31 & 7,03\\ 10 & 6,00\\ 09 & 3,80\\ 63 & 3,44\\ 26 & 6,06\\ 46 & 8,24\\ 10 & 10,87\\ \end{array}$	$e Por \\ 8 11, 26 \\ 8 11, 26 \\ 8 19, 25 \\ 7 7, 98 \\ 1 29 \\ 7 46, 70 \\ 8 3, 63 \\ 11 4, 95 \\ 99 5, 28 \\ 4 5, 30 \\ 99 4, 27 \\ 44 3, 21 \\ 00 2, 85 \\ 99 2, 33 \\ 6 2, 79 \\ 99 3, 49 \\ 9 3, 49 \\ 9 3, 49 \\ 1 10 10 \\ 10 10 10 \\ 10 10 $	Tota <i>inds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 887 <i>1</i> , 653 <i>3</i> , 035 <i>1</i> , 653 <i>3</i> , 035 <i>1</i> , 653 <i>3</i> , 035 <i>1</i> , 7, 978 <i>7</i> , 910 <i>5</i> , 978 <i>7</i> , 910 <i>7</i> , 777 <i>7</i> , 777	Value \$274, 24' 237, 300 582, 133 221, 21; 12, 82; 327, 73 172, 774 129, 066 184, 863 116, 26' 96, 53; 68, 89; 53, 69' 54, 24' 62, 59' 84, 85;
BY FISHING GROUNDS East of 66° W. longitude Western Bank		Cus Pounds 205 6, 100 3, 885 530 10, 720 150 2, 150 1, 340	k Valuu \$4 300 124 27 460 300 8 300 8 8 34	H 2 Pour 2 28, 2 20, 4 41, 3, 5 994, 3 7, 12, 5 100, 9 94, 5 3, 6 4, 8 8, 8 8, 5 20, 9 4, 12, 12, 12, 12, 12, 12, 12, 12	falih nds 817 6600 223 324 197 221 221 077 819 168 175 411 021 440 228 162	Value \$5, 325 5, 438 10, 359 22, 069 1, 954 3, 492 2, 643 3, 773 1, 818 976 610 1, 377 1, 916	Miscel Pound 40, 7 924, 3 924, 3 288, 5 19, 8 1,523, 8 92, 1 88, 5 128, 5 128, 5 128, 5 128, 5 120, 9 120, 9 120, 6 117, 4 138, 5 171, 2	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$e Poi \\ 8 11, 26 \\ 8 11, 26 \\ 8 11, 26 \\ 8 19, 25 \\ 7 7, 98 \\ 1 29 \\ 7 46, 70 \\ 8 3, 63 \\ 1 4, 95 \\ 99 5, 28 \\ 4 5, 30 \\ 99 4, 27 \\ 99 4, 27 \\ 99 4, 27 \\ 99 3, 49 \\ 0 3, 76 \\ 90$	Tota <i>inds</i> <i>i5</i> , 401 <i>2</i> , 325 <i>0</i> , 769 <i>2</i> , 387 <i>1</i> , 653 <i>8</i> , 035 <i>1</i> , <i>5</i> , 978 <i>7</i> , 910 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>2</i> , 140 <i>5</i> , 286 <i>3</i> , 100 <i>4</i> , 100 <i>5</i> , 286 <i>5</i> , 303	Value \$274, 24 237, 300 582, 13 221, 21; 12, 82; 327, 73 172, 77 129, 06 116, 26 96, 53 68, 89 53, 69 54, 24 62, 59

Cod, haddock, and hake landed at Boston and Gloucester, Mass., and Portland, Me., by otter trawlers in various years, 1908 to 1924

Year	Trips	Cod	Haddock	Hake	Year	Trips	Cod	Haddock	Hake
1000	No.	Pounds	Pounds	Pounds	1014	No.	Pounds	Pounds	Pounds
1908	44 47	209, 800 159, 800	1,542,000 1,719,000	46,600 74,400	1914 1920	$\frac{387}{646}$	1, 149, 595 6, 311, 389	15, 383, 550 51, 962, 457	259, 913
1910	59	125, 850	2, 775, 000	46, 600	1921	346	2, 482, 833	26, 734, 893	241,650
1911	178	564, 500	7, 367, 100	151, 700	1922	578	11, 161, 947	35, 878, 524	576, 370
1912	295 326	1,952,950 1,667,806	12,966,700 12,488,992	105, 500 209, 485	1923 1924	665 543	14,961,590 8,231,430	35, 527, 297 35, 197, 940	471,660 616,853

DAYS' ABSENCE

In order to provide more accurate information on the fishing effort, statistics on the number of days' absence from ports of vessels on fishing trips were taken during 1924. The days' absence on each trip was reckoned as including the date of departure and date of arrival. Unfortunately, these data were not collected at Boston during the entire month of January, 1924, and it was therefore impossible to incorporate them in the general tables on New England vessel fisheries. They are presented by months, grounds, and ports for all vessels, including otter trawlers, and for otter trawlers separately, in the following tables:

Days' absence from port of fishing vessels landing fish at Boston and Gloucester, Mass., and Portland, Me., 1924

Fishing grounds	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tota
BOSTON		1	54	24		1227	1	here					
East of 66° W. longitude	1	17			318	NO.	16					100	100
		2.25	01	00	00	20	00	101	48	22	22	128	del0
La Have Bank Western Bank			21 40	89 96					40	80			
Quereau Bank		60			38				218	52			1
Green Bank				21						21			
Grand Bank			19	51					40	32			
St. Peters Bank					60	91	92	22			64		
Burgeo Bank									22				
Off Newfoundland					46				422				
Cape Shore The Gully				25	20	378			424	17	53		
Labrador Coast			- 30	20				32					
Labrador Coast								02					
West of 66° W. longitude					10.1					Sec. 10	lane.	- TOP-	1
Browns Bank		37	74	387	405	67	141	112	115	119	33	236	
Georges Bank				403				1, 324	723	195			
Cashes Bank			3						25	37			
Clark Bank												9	
Fippenies Bank									4	4	4		
Tillies Bank									8				
Middle Bank		37	86 131	41 73			23	241	29 26	80 114			
Jeffreys Ledge South Channel		341	354	272		524	541	329	735	885			
Nantucket Shoals		011	001	~	133				19	124			
Off Chatham		32	32	21	22				19	12		49	
Seal Island										7	7		
Shore, general		148	130	269	283	385	201	221	262	263	156	174	
Total		9 020	1 000	1 020	1 000	0 001	9 540	0.000	0 715	0.004	1 719	0.014	21212
10tal		2,039	1, 888	1, 839	1,869	2, 621	3, 548	2, 932	2,715	2,004	1, /13	2, 014	
GLOUCESTER			10.13		1	10000	1.1.1.1.1	1.0.1.1.1.1	44-1-44		1.1	183 513	6738
GLOUCHSTER	1 - 3	0.11	2.87			1.0	111	1.1.1.1	1 14 110		11	100	
East of 66° W. longitude			[2]		1.3	45 2	1.1.5	1.5.4	A.S.	1		rolling.	Ding
La Have Bank			31	87		14		70	105	23	11		341
Western Bank	13	32		52		432	578	494	96				
Western Bank Quereau Bank			27	76		57	83	• 152	92	60	40		679
Green Bank				22						51			73
Grand Bank				183		306	186	101		13			885
St. Peters Bank					59	94	172	20			30		375
Off Newfoundland Cape Shore		174			10	238					9	267	523 257
West of 66° W. longitude	1.00		85 (1	10	200	1001		Tel		201	U.S.	201
						1			3153		-		
Browns Bank				201	190	20			55	61	9		536
Georges Bank	16	285	334	297	244	27	166	233	358	182	9		2, 151
Cashes Bank											6		6
Middle Bank South Channel							45	132	26				203
Nantucket Shoals					19	61 13	151 17	18	20	81	25 8		375
Shore, general	41	82	172	211	230	181	156	177	696	301	538	286	3, 071
Total													
1 otal	152	573	598	1, 129	1,148	1, 443	1, 554	1, 397	1, 448	772	750	553	11,517

.Fishing grounds	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
PORTLAND	1 chs	(Bran	9	0 0	nkan	-bi	1.0	nin	tini)	. 11	1.13	bot	. TI
East of 66° W. longitude	101	13,00	ITB.		Crie	DIS.	STIN La.				174 .	ethe	257
La Have Bank				17	222			30		5			52
Western Bank	24	27	129	99				24	54		. 12	18	
Quereau Bank					13	7	43			22			8
Green Bank						33	38						71
St. Peters Bank						24	56						80
Burgeo Bank				20				11110		1111		1	20
Cape Shore						67		16	213				290
Gulf of St. Lawrence					10								10
St. Anns Bank						28							28
The Gulley				26		777	11777	10111				77777	20
West of 66° W. longitude	hant	7 78	inin	List.	0 41	inge		in a	di la	Wint	nine'	2.15	1.00
Browns Bank		i.	0.010	ana	45	19		18	dans	11	1161	1000	8
Georges Bank							81	52					133
Cashes Bank				7	5	15			12	31			70
Fippenies Middle Bank						+++++						2	
Platts Bank	31	5	16	28	16			3		91	56	21	26
leffrevs Ledge				17				39	45				
Shore, general	92 67	81	106	122		220	249		89				1, 47
Total	214	166	290	336	230	422	467	376	413	343	204	129	3, 590
Grand total		2.778	2.776	3, 304	3. 247	4, 486	5. 569	4. 705	4, 576	3, 179	2.667	2.726	

Days' absence from port of fishing vessels landing fish at Boston and Gloucester, Mass., and Portland, Me., 1924-Continued

NOTE.-Data for Boston for January are not available.

Days' absence from port of otter trawlers landing fish at Boston and Gloucester, Mass., and Portland, Me., 1924

Fishing grounds	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Tota
BOSTON East of 66° W. longitude	ind baa	Sol our	105 un	n I Leen Leen	(od	1931 1921 1927			prog Arrest Tax t	110			
Western Bank West of 66° W. longitude				96	1.1.1	<u>ц.</u> ц. 100	54			80	60	300	
Georges Bank. South Channel. Nantucket Shoals Off Chatham.	1.81	313 169	137 170 	58 150	5 92 120	80 95	11 73 93	$108 \\ 14 \\ 31$	27 189	192 30 12	150 162	$12 \\ 147 \\ 224 \\ 20$	
Total	10	526	325	304	303	175	231	153	216	314	372	703	
GLOUCESTER East of 66° W. longitude		nn n.vr.	2019	di j	1773 (221) (221)		ni. I w Tro		aqu				
Western Bank				27	59			23	in ne Malait	10		i 1 V	156
Georges Bank South Channel Nantucket Shoals			1			61 13	29 17	- 32 8	ni	39			40 156 38
Total		8		27	78	74	93	63		39	8		390
PORTLAND													
East of 66° W. longitude			16			11							
Western Bank	24		129	99	29				12		12	18	323
Grand total		534	454	439	410	249	324	216	228	353	392	721	

NOTE.-Data for Boston for January are not available.

VESSEL FISHERIES AT SEATTLE, WASH.

In 1924 there was a decrease in quantity in the vessel fisheries at Seattle, Wash., as compared with 1923, but an increase in the value of the products landed by the fishing fleet, and there was an increase in both the quantity and value of products landed by collecting vessels, which was due chiefly to an increase in the landings of salmon. Statistics of the vessel fisheries at Seattle have been collected by the local agent and published as monthly and annual statistical bulletins giving the quantity and value of fishery products landed by American fishing and collecting vessels at that port. In 1924 the fishing fleet at Seattle landed 854 trips, amounting to

10,066,010 pounds of fish, having a value to the fisherman of The catch was taken chiefly from fishing grounds along \$1.329,957. the coast from Oregon to Portlock Bank, Alaska. The fishing areas from which the largest quantities were taken were Flattery Banks and Hecate Strait. The products included halibut, 7,362,960 pounds, valued at \$1,197,229; sablefish, 2,030,300 pounds, valued at \$110,971; "lingcod," 465,975 pounds, valued at \$14,403; and rockfishes, 206,775 pounds, valued at \$7,354. Compared with 1923 there was a decrease of 65 trips by fishing vessels and of 171,580 pounds, or 1.68 per cent, in the quantity, and an increase of \$8,370, or 0.63 per cent, in the value of the products landed. There was a decrease in the catch of halibut of 442,030 pounds, or 5.66 per cent, but an increase in value of \$8,351, or 0.70 per cent. The catch of sablefish also decreased 78,300 pounds, or 3.71 per cent, and \$12,543, or 10.16 per cent in value. There was an increase in the catch of "lingcod" of 271,875 pounds, or 140.07 per cent and of \$10,048, or 230.72 per cent in value, and the catch of rockfishes also increased 76,875 pounds, or 59.18 per cent, and \$2,514, or 51.94 per cent in value.

The fishery products taken in Puget Sound and landed at Seattle by collecting vessels during the year amounted to 18,166,710 pounds, valued at \$1,389,265. The products included salmon, 16,313,010 pounds, valued at \$1,290,093; herring, 316,600 pounds, valued at \$2,871; sturgeon, 23,800 pounds, valued at \$2,198; steelhead trout, 88,860 pounds, valued at \$8,886; smelt, 318,600 pounds, valued at \$24,622; perch, 69,900 pounds, valued at \$4,902; rockfishes, 128,600 pounds, valued at \$8,044; "lingcod," 51,110 pounds, valued at \$1,678; flounders, 96,300 pounds, valued at \$1,921; sole, 254,750 pounds, valued at \$9,560; and crabs, 505,600 pounds, valued at \$34,490. Compared with 1923 there was an increase of 779,232 pounds, or 4.48 per cent, in the products landed by collecting vessels with an increase in value of \$80,534, or 6.15 per cent. The quantity and value of fishery products landed at Seattle by fishing and collecting vessels in 1924 are given in detail in the following tables:

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Statement, by fishing grounds and months, of quantities and values of certain fishery products landed at Seattle, Wash., by American fishing vessels, 1924

a sector of the	1.4411.47	-	1000	Q1-02/00	Sand States & Tool	1.	Sector Sector
Total Presents Value Rounds Value	Na ive note	Num- ber of		Halibut	t, fresh	Sablefish	n, fresh
		trips					
FISHING GROUNDS	1		P	ounds	Value	Pounds	Value
Oregon Coast		10		48,800	\$9, 336	67, 500	\$3, 913
Flattery Banks		443	1,	935, 460	330, 827	1, 585, 300	87,08
Hecate Strait		384	4,	863, 900	772, 328	367, 800	19, 32
Forrester Island Grounds		3		19, 500	3, 690	1,700	8
Coronation Island		2 7	001-	81,000	12, 150		
Yakutat Grounds				249, 500	42, 450	8,000	56
Portlock Bank		5	KN :	164, 800	26, 448		
Total		854	7, :	362, 960	1, 197, 229	2, 030, 300	110, 97
MONTHS		and and start			Chinese the		- and a set
January		9	1	112,800	19, 450	22,000	1,36
February		20		70,400	14, 193	20, 100	1, 44
March		59		364, 100	61, 191	34, 500	2, 08
April		90		617,600	94, 081	19, 300	1, 31
May		141		238, 300	174, 950	70, 100	4,08
June		103		094, 400	164, 202	151,800	7.56
July	14	97	1,	161, 300	196, 427	290, 800	14, 540
August		105	1.	101, 810	167,646	515,000	26, 230
September		90		796, 300	143,009	364, 500	19, 310
October		86		183,000	97, 763	372, 500	21,659
November		51	;	322, 950	64, 317	167, 700	11, 203
December	******	3				2,000	175
Total		854	7, 3	362, 960	1, 197, 229	2, 030, 300	110, 971
101 - 1010 AC - 102 - 102 - 103 - 10	"Linge	od," fres	sh	Rockfis	shes, fresh	Total.	fresh
			1	-			
FISHING GROUNDS	Pounds	Valu		Pounds	Value	Pounds	Value
Oregon Coast	1,700		534	1 Ounus	Futue	118,000	\$13, 28
Flattery Banks	341, 825			137, 375	\$5, 225	3, 999, 960	434, 56
Hecate Strait	118, 450			69, 400		5, 419, 550	796, 559
Forrester Island Grounds	110, 100	-, .		00, 100	2, 120	21, 200	3, 779
Coronation Island						81,000	12, 15
Yakutat Grounds						257, 500	43, 010
Portlock Bank	4,000	1	60			168, 800	26, 60
Total	465, 975	14, 4	103	206, 775	7,354	10, 066, 010	1, 329, 95
MONTHS		-	-				
LINES A CONTRACTOR OF A CONTRACT		1.1.1			1.1.17		
January						134, 800	20, 810

January		1.2.1	1012		134,800	20,810
February	11,000	440			101, 500	16,080
March	55, 500	2, 145	18,000	720	472, 100	66, 141
April.	61,900	2,484	53,900	2,684	752, 700	100, 560
May	80, 200	2,488	33,000	940	1, 421, 600	182, 465
June	45,050	901	11, 350	235	1, 302, 600	172, 898
July	43,075	862	7,875	158	1, 503, 050	211, 987
August	57, 150	1,053	17,350	347	1,691,310	195, 276
September	26,800	536	28,600	592	1, 216, 200	163, 447
October	43, 500	905	15,000	355	914,000	120,682
November	19,300	904	11, 200	488	521, 150	76, 916
December	22, 500	1, 685	10, 500	835	35, 000	2, 695
Total	465, 975	14, 403	206, 775	37, 354	10, 066, 010	1, 329, 957

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es resider 989 000 poinder overers, 71 res. 555,155 pounds: and haddock, 46

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Species	Janu	lary	February		March		AI	oríl	May	
- has included	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 12,000	Value \$120
Sturgeon Herring	30, 000	\$600	31, 600	\$316	65,000	\$325	122,000	\$610	*******	
Salmon: King or spring Coho or silver					*******				663, 000 32, 000	79, 930 3, 500
Trout: Steelhead Smelt	32,000	3, 200			7,000	500	14,800 21,000	1,480 1,050	16,000	1,600
Perch Rockfishes "Lingcod"	11,500 8,000 14,000	960 160 288	8,000 7,300 12,400	560 584 872	12,600	1,008	5, 800	464		
Flounders	4,000 38,500	$120 \\ 1,440$	7,500 17,800	$ \begin{array}{r} 150 \\ 712 \end{array} $	9,500 23,000	145 690	4,350 21,100	87 844	12, 800 18, 400	256 536
Crabs Total	$\frac{79,200}{217,200}$	5,400	66,000 150,600	4,600	48,000	3,280 6,020	98, 340 287, 390	6,705	53,460	3, 645

Fishery products,	by	months,	taken	in	Puget	Sound	and	landed	at	Seattle,	Wash.,	
		Sintering	by colle	ectin	ng vess	els, 192	4					

Species	Jun	e	Jul	У	Aug	ust	Septe	mber
Sturgeon	Pounds 2, 380	Value \$238	Pounds	Value	Pounds 4, 800	Value \$960		Value
Salmon: Humpback or pink. Chum or keta King or spring Coho or silver Sockeye or red Trout: Steelhead Smelt. Perch.	157, 400 33, 000 23, 610	265, 231 11, 018 3, 330 2, 361	$\begin{array}{r} 24,600\\ 6,000\\ 3,671,500\\ 406,100\\ 27,000\\ 22,350\\ 61,000\end{array}$	\$584 120 367, 150 20, 305 1, 350 2, 235 6, 100	$\begin{array}{c} 13, 600\\ 12, 800\\ 1, 716, 000\\ 564, 000\\ 57, 900\\ 16, 400\\ 9, 500\\ 14, 000\end{array}$	274 171, 600 22, 560 5, 790 1, 640 760	36, 300 192, 000 2, 160, 000 41, 100	989 9 19, 200 9 129, 600
Rockfishes "Lingcod"	11,600 4,310	1, 160 86	14, 300 18, 000	858 360	15,000			320
Flounders	8, 100 16, 000	162 640	13, 350	267	14, 600 17, 350			
Total	2, 908, 710	284, 226	4, 264, 200	399, 329	2, 455, 950	206, 952	2, 509, 750	155, 804
Species	Octo	ber	Nover	nber	Decen	nber	Tot	al
Sturgeon Herring	Pounds 4, 200	Value \$880	Pounds	Value	Pounds 68,000	Value \$1, 020	Pounds 23, 380 316, 600	Value \$2, 198 2, 871
Salmon: Humpback or pink. Chum or keta King or spring Coho or silver Sockeye or red	920, 000 86, 000 1, 828, 000	36, 800 8, 600 109, 680	750,000 18,500 243,000	\$26, 250 1, 850 2, 430	********		80, 200 1, 725, 100 8, 999, 310 5, 390, 500 117, 900	2, 536 64, 433 913, 561 299, 093 10, 470
Trout: Steelhead Smelt Perch		$1,050 \\ 1,274$	86,000	5, 160	56,000 8,400	3, 360 [*] 672	88, 860 318, 600 69, 900	8, 886 24, 622 4, 902
Rockfishes "Lingcod"	8,000	160	18,000	1, 440	12,000	840	128,600 51,110	8,044 1,678
Flounders Sole Crabs	$\begin{array}{c} 4,100\\ 10,600\\ 34,320 \end{array}$	82 424 2, 340	4, 850 16, 000 73, 480	97 640 5, 020	4, 800 62, 000 52, 800	96 2, 480 3, 500	96, 300 254, 750 1 505, 600	1, 921 9, 560 34, 490
Total	2, 923, 920	161, 290	1, 209, 830	42, 887	264,000	11,968	18, 166, 710	1, 389, 265

¹ 49,119 dozen.

FISHERY PRODUCTS RECEIVED AT MUNICIPAL FISH WHARF AND MARKET, WASHINGTON, D. C.²

The receipts of fishery products at the municipal fish wharf and market, Washington, D. C., in 1924, amounted to 8,007,704 pounds, an increase of 2,329,547 pounds, or 42.79 per cent, as compared with 1923. The most important products in quantity were river herring, including roe, 1,327,020 pounds; squeteagues or "sea trout," 1,240,450 pounds; croaker, 999,000 pounds; oysters, 710,916 pounds; shad, including roe, 555,154 pounds; and haddock, 469,280 pounds. The species ranking next in importance include butterfish, catfish, flounders, halibut, mackerel, perch, striped bass, and crabs.

 2 Daily reports of the quantity of fishery products received at this market are received by the bureau for tabulation through the courtesy of the health department of the District of Columbia.

Fishery products, in pounds, received at Municipal Fish Wharf and Market, Washington, D. C., 1924

Species	January	February	March	April	May	June	July
Bass, black or sea	18,800	20, 500	9,600	600	3, 500	9, 527	5,700
Bluefish		700	4,900	5, 300	1,800	2, 300	1, 400
Bowfin Butterfish	2,100 7,075	600		4,000	21,400	49,800	54,100
Carp	7,075	8,975	10,350	7,265	20,500	11,353	6, 525
Catfish	12, 875	6,950	28,000	40, 200	22, 200	23, 851	10,100
Cod:	(NG CAR	0141.21	0.06	We want the start		also and	
Fresh Salted	2,400 1,000	5, 900	7,725	3, 550	4, 900	6, 475	3, 500
Croaker	21,000	2,900	2,400	230, 400	164,000	152,300	210, 600
Eels	400		230	2,050	600	1,191	300
Flounders	10,800	29,200	34,100	13,900	11,800	9,600	5,400
Gizzard shad	2,025						
Haddock:	19012011	001		and the second	1-6	A COLORADO	
Fresh	41,450	82,800	76,930	43,750	18,170	15, 350	10, 950
Smoked	90	860	280				
Hake	4,400		10 150	10 975		11 705	10.075
Halibut	34, 950	6, 250	10, 150	10, 375	8, 250	11, 725	12, 375
Herring, river: Fresh	38,600	95 650	90, 500	590 000	151 900	1 000	and the second second
Salted	38,000	25, 650	90, 500	580,000	151,800 279,250	1,900 52,500	
Roe				22,000	11,820	52, 500	
Roe Hickory shad or "jacks" Kingfish	4,475	3,725	5,400	4,400	1,400		
Kingfish	3, 200	400	5, 400	1,300	2,000	300	600
Mackerel:	0,200	100		1,000	2,000	000	000
Fresh	24,800	23,200	4,950	11,600	10,500	30,150	19, 500
Salted	300	420	60	300	10,000	600	10,000
Mullet	30	800	500		200		
Parch	14,825 2,360	$15,525 \\ 3,350$	88,300	44, 400	10,500	7, 475	3,300
Pike or pickerel	2,360	3,350	3,175	200	200	550	50
Pollock	1,000					250	850
Pompano		100			200		
Redfish or red drum				625		200	
Red snapper	1,000	200	200		200		
Salmon:	- 000	0.100	200		000	0.000	0.000
Fresh Smoked	5,000 30	$6,100 \\ 550$	400		200	2,200	2, 800
Sergeant fish	50	550	400				
Scup or porgy	00				300	1,300	2,500
Shad	23,904	29,000	89, 250	275,000	126,700	6,000	2,000
Shad roe	225	350	225	210,000	120,100	0,000	mounte
Shad roe Sheepshead	THE ACC.	1000	1002.1			100	[Constant
Smelt	6,940	2,970	1,080				
Spot	1,600				1,300	4,000	6,400
Squeteagues or "sea trout" Squid	35, 400	20,800	25,100	31,100	271 800 1	122, 400	129, 400
Squid					3,200		
Striped bass	875	4,950	22, 300	66, 600	17,000	11,050	9,400
Sturgeon				175	1,174		
Swordfish							600
Tilefish	800	800		850	300		
Whiting Clams, hard			500		600	7,328	2,000
Oratora	2, 240	3,068	4, 360	3,936	7,072	1,328	6, 176
Oysters: In the shell	62,734	38, 451	53,900	8,911	1,225	224	conf Principal
Opened	58 773	39,237	39,658	14,710	1, 220	221	
Scallops Crabs, hard	1,048	1,120	880	2,488	1,440	1,280	640
Crabs, hard	1,010	-,	1.1.1	225	11,010	40,950	107,835
Crab meat		75	400	925	6,110	12,600	12,920
Frogs				15	55	121	
Lobsters			50	274	550	300	200
Shrimp	730	1,150	1,800	1,500	750	3,450	3,600
Turtles	1,280	648	286	290	349	1,116	78
Total	451, 584	388, 274	618,039	1, 433, 214	1, 196, 424	601, 816	629, 799

Nord. - The church have been reduced to pounds on the basis of 8 pounds of ment to a bashed, the overlap on the heads of 7 promote of ment to a burded and SH pounds to a gaden.

Fishery products, in pounds, received at Municipal Fish Wharf and Market, Washington, D. C., 1924-Continued

Species	August	Septem- ber	October	Novem- ber	Decem- ber	Total
Bass, black or sea Bluefish	1,800 3,800	600 6, 600	3, 800 8, 800	14, 100 200	29, 156	117, 683 35, 800
Bowfin					200	300
Butterfish	70, 500	52, 250	26,400	10,300	1,150	292,600
Carp	2,300	5,850	7,450	6,600	9,380	103, 623
Catfish	7,900	19,940	42,250	21,700	9,435	245, 401
Ciscoes		100	600	600	200	1, 500
Cod: Freeb	6,500	4, 550	3,300	3,200	3,550	55, 550
Fresh	0,000	4,000	0,000	0,200	0,000	1,000
Salted				400		400
Croaker	144,300	24,000	8,300	10,500	28,300	999,000
Eels	300	550	2,500	1,200	1,300	10,621
Flounders	4,200	10,075	23,100	20,100	7,200	179, 475
Gars			200			200
Gizzard shad		275	5,700	5,550	8,600	22,150
Haddock:			1100-24			A Control of
Fresh	17,000	31,250	44,800	49,900	35,700	468,050
Smoked						1,230
Hake			7,800	70,000	6,600	88, 800
Halibut	10,650	10,650	11, 560	14,400	33,100	174, 435
Herring, river:			1.64 1		DAR CONSERVE	N- INCHAIL
Fresh				51,000	22,000	961, 450
Salted						353, 750
Roe						11,820
Hickory shad or "jacks"						19,400
Kingfish			200	4,700	25,400	38,100
Mackerel:		10 000		0.000		100 000
Fresh	15,700	12, 200	7,800	9,300	26,600	196, 300
Salted					********	1,680
Menhaden Mullet			200	100	150	200 1,780
	5,300	7,400	0.400	100	150	
Perch Pigfish	200	7, 400	9,400 400	12,600	20,775	239, 800 600
Pike or pickerel	200	300	1,300	1,500	3,070	16,255
Pollock		800	1,900	3,900	21,200	29,900
Pompano			1,000	200	21,200	500
Redfish or red drum			200	200	********	1, 225
Red snapper				200	1,200	2,800
Salmon:					.,	-,
Fresh	1,700	6,400	10,200	2,500		37,100
Smoked						980
Sergeant fish						50
Scup or porgy	600	500	200			5,400
Shad				2,500	2,000	554, 354
Shad roe						800
Sheepshead					150	250
Skates				200		200
Smelt						10,990
Spot	5,200	34,000	47,000	5,500		105,000
Squeteagues or "sea trout" Squid	139,000 100	150, 200	177,400	78,000	59,850	1, 240, 450
Striped bass	13,600	22,855	200 58, 300	100	9, 595	3,600 257,225
Sturgeon	15,000	22,800	260	20,700 125	9, 990	1,829
Sunfish	55		200	200	*********	1, 829
Swordfish	115	200		200		915
Tarpon	110	70				70
Tilefish		10	400	300	200	3,650
Whitefish			1,400	100	200	1,500
Whiting			5,600	9,600	4,800	23,100
Clams, hard	7,360	5,440	4,672	2,688	3,776	1 58, 116
Oysters:			.,	-,	0,	
In the shell	1	13, 349	52,661	87,605	71,771	\$ 390, 831
Opened		12,821	51,307	51,802	51,678	3 320, 085
Scallops	480	320	1,280	800	960	12, 736
Crabs, hard	43,650	10,770	750			215, 190
Crab meat	12,025	5, 545	2,325	755	265	53, 945
Frogs						191
Lobsters	. 50	200	200	50	100	1,974 28,730
Shrimp	7,200	2,400	1,500	3,450	1,200	28,730
Turtles	56	142	96	222	302	4, 865
	521, 881	452, 602	633, 711	579, 447	500, 913	8,007,704
Total						

¹ 2,265 bushels.

² 55,833 bushels.

3 38,798 gallons.

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 8¼ pounds to a gallon.

SHAD AND ALEWIFE FISHERY OF THE POTOMAC RIVER

The regular annual statistics of the shad and alewife fisheries of the Potomac River were taken for the season of 1924. They show that in 1924 the shad fishery yielded 172,310 shad, weighing 578,210 pounds and valued at \$88,450 to the fishermen. This marks an unprecedentedly small catch; amounting to only 49 per cent in number and 45 per cent in value of the 1923 catch, which itself was less than half as large as the previous year's catch.

The catch of alewives, amounting to 15,133,388 fish weighing 6,052,756 pounds and valued at \$56,552 to the fishermen, was greater than the 1923 catch by 32 per cent in number and 14 per cent in value and was the largest catch in recent years.

The following tables give the detailed statistics for 1924 and comparative statistics on the shad and alewife catch of the Potomac River for the years on which statistics are available.

Item	M	aryland	n prid	do abir	Virginia	08 119	Total				
Fishermen	Number 269	Pounds	Value	Number 586	Pounds	Value	Number 855	Pounds	Value		
Rowboats and scows Gasoline boats Pound nets Gill nets Haul seines	117 52 83 107 2	12121233	\$4, 320 14, 575 9, 150 10, 225 1, 100	194 221 308 290	CC 2000000 CC 2000000000	\$6, 680 71, 960 97, 325 12, 239	311 273 391		\$11,000 86,535 106,475 22,464 1,100		
Shore and accessory property	8 9885 193-19	ininin Angrai	2, 775		ndraha Hadraha	7, 050			9, 825		
Total	Idagab	iournos.	42, 145	unahin	di.m	195, 254	للتعتلقط	.1	237, 399		
Shad caught: With pound nets With gill nets With haul seines	4, 570 30, 185 2, 750	104, 082	2, 326 16, 895 1, 248	29,702	348, 031 102, 894	51, 570 16, 411	109, 673 59, 887 2, 750	206, 976	53,896 33,306 1,248		
. Total	37, 505	127, 285	20, 469	134, 805	450, 925	67, 981	172, 310	578, 210	88, 450		
Alewives caught: With pound nets With gill nets With haul seines	1, 634, 000			12, 978, 388 321, 000		46, 972 2, 695	14, 612, 388 321, 000 200, 000	128, 200	53, 057 2, 695 800		
Total	1, 834, 000	C. SING	11/21-121	13, 299, 388	5, 319, 156	49, 667	15, 133, 388				

Shad and alewife fisheries of the Potomac River, 1924

Production of shad in the Potomac River in various years, 1896 to 1924

Year		Maryland		Virginia			Virginia		
ALT STATES	Number	Pounds	Value	Number	Pounds	Value	Number	Pounds	Value
1924	37, 505	127, 285	\$20, 469	134,805	450, 925	\$67,981	172, 310	578, 210	\$88,45
1923	93, 619	308, 729	52, 917	257, 927	878,653	145,702	351, 546	1, 187, 382	198, 619
1922	203,682	706, 501	95, 140	680, 494	2, 409, 070	324,882	884, 176	3, 115, 571	420, 02
1921	49,681	138, 207	25, 191	356, 191	1,022,231	182,179	405,872	1, 160, 438	207,37
1920	80,944	302, 237	55,963	448, 414	1,677,543	278, 501	529,358	1,979,780	334, 46
1919	94, 512	354, 420	56,833	449,957	1,687,339	275, 564	544, 469	2,041,759	332, 39
1915	17, 196	64, 485	6,827	165,206	619, 523	65,300	182,402	684,008	72,12
1909	31,158	116,843	9,232	172,813	648,049	44, 500	203,971	764,892	53, 73
1904	83, 147	311,801	16,343	289,500	1,085,625	51,709	372, 647	1,397,426	68,05
1901	146,000	547, 500	14,800	648, 462	2, 431, 733	104, 566	794, 462	2, 979, 233	119,36
1896	233, 238	874, 643	20, 524	450, 825	1,690,594	43.084	684,063	2, 565, 237	63, 60

a statistical Polletin No. 617, but the detailed statistics are published

Production of alewives in the Potomac River in various years, 1909 to 1924

Year	N	Iaryland		the sol	Virginia	t erev	Rivers	Total	Tod!
01224 1924 1923 1922 1921 1921 1920 1919 1919 1915 1909	Number 1, 834, 000 2, 119, 787 1, 292, 500 1, 395, 000 1, 077, 775 1, 488, 583 335, 000 4, 883, 000	Pounds 733, 600 847, 916 517, 000 558, 000 538, 888 772, 867	Value \$6, 885 8, 764 3, 700 9, 010 13, 940 15, 508 1, 420 10, 369	Number 13, 299, 388 9, 308, 782 10, 074, 500 8, 908, 510 7, 681, 561 7, 379, 319 7, 276, 428 24, 601, 040	Pounds 5, 319, 156 3, 722, 912 4, 029, 800 3, 563, 404 3, 813, 780 2, 904, 054	$\begin{matrix} Value \\ \$49, 667 \\ 40, 657 \\ 34, 642 \\ 35, 031 \\ 41, 197 \\ 45, 508 \\ 30, 741 \\ 42, 854 \end{matrix}$	Number 15, 133, 388 11, 428, 569 11, 367, 000 10, 303, 510 8, 759, 336 8, 867, 902 7, 611, 428 29, 484, 040	Pounds 6, 052, 756 4, 570, 828 4, 546, 800 4, 121, 404 4, 352, 668 3, 676, 921	Value \$56, 552 49, 421 38, 342 44, 041 55, 137 61, 016 32, 161 53, 223

FLORIDA SPONGE FISHERY

In 1924 the quantity of sponges sold at the sponge exchange, Tarpon Springs, Fla., was 425,305 pounds, valued at \$714,760, of which 265,392 pounds, valued at \$599,221, were large wool; 58,021 pounds, valued at \$72,652, small wool; 81,420 pounds, valued at \$37,996, yellow; 14,898 pounds, valued at \$2,661, grass, and 5,574 pounds, valued at \$2,230, wire. It is estimated that sponges to the value of \$50,000 were sold outside of the exchange at Tarpon Springs.

Compared with the production in 1923, this indicates a decrease of 13 per cent in total quantity and 3 per cent in total value. When compared with the annual production in the years 1919 to 1923, however, it is apparent that the 1924 production is only slightly below normal in quantity and above normal in value. The production of large wool sponges shows a gratifying increase and that of small wool and yellow sponges is being well maintained, but the production of grass and wire sponges has decreased considerably as compared with previous years. The unusually small yield of grass sponges in 1924 is attributed to the continued high winds, which caused unusual turbidity of inshore waters where these are fished and to some extent to the low prices that prevailed during the season.

The following table gives comparative statistics on the sponges sold at the Tarpon Springs Sponge Exchange from 1919 to 1924:

Year	Total		Large wool	Small wool	Yellow	Grass	Wire
1924 1923 1922 1921 1920 1919	Pounds 425, 305 490, 200 526, 885 386, 390 409, 746 424, 075	- Value \$714, 760 734, 391 699, 089 540, 093 678, 209 707, 964	Pounds 265, 392 243, 230 248, 475 173, 723 176, 722 205, 462	Pounds 58, 021 54, 292 70, 478 63, 786 60, 902 76, 309	Pounds 81, 420 87, 878 115, 455 70, 218 72, 648 73, 051	Pounds 14, 898 88, 772 84, 892 65, 745 92, 880 62, 547	Pounds 5, 574 16, 028 7, 585 12, 918 6, 594 6, 706

Sponges sold at the exchange, Tarpon Springs, Fla., 1919 to 1924

FISHERIES OF THE PACIFIC COAST STATES IN 1922

The statistics of the fisheries of the Pacific Coast States for the calendar year 1922 were obtained from a canvass made during 1923. The canvass was conducted in a manner similar to that for the year 1915 in order that the statistics collected might be comparable to those of 1915 and previous canvasses. A summary has been published as Statistical Bulletin No. 647, but the detailed statistics are published herein for the first time.

COMMON AND SCIENTIFIC NAMES OF FISHES

Due to the confusion existing among the common names of fishes in the Pacific Coast States, it is difficult to secure a good separation of species in the statistics. The following list indicates the groupings which were necessary and the common names that have been used in the statistical tables to designate the various species of fish and shellfish:

	(Germo alalunga.
Albacore and tuna	Germo macropterus.
	Thunnus thynnus.
	(Engraulis mordax.
Anchovies	Anchovialla delicatissimus.
	Anchovialla compressus.
Barracuda	Sphyræna argentea.
Bonito and skipjack	Sarda chilensis.
	Gymnosarda pelamis.
Carp, German	Cyprinus carpio.
Catfah	(Ameiurus nebulosus.
Caulish	Ameiurus natalis.
CatfishCod	Gadus macrocephalus.
Dolly Varden trout	Salvelinus malma.
Flounders	Pleuronectidæ (species).
Flying fish	Cypsilurus californicus.
Grayfish	Squalus sucklii, and other sharks.
Hake	Merluccius productus.
Halfmoon	Medialuna californiensis.
Halibut	Hippoglossus hippoglossus.
Hardhead	Othodon microlepidotus.
Herring	Clupea pallasii.
Kingfish	
Lingcod	Ophiodon elongatus.
Lingcod Mackerel	Scomber japonicus.
Mullet	Mugil cephalus.
Perch	
Pike, Sacramento	
Pilchard or sardine	Sardinia cærulea.
Pompano	Peprilus simillimus.
Rock bass	Paralabrax clathratus.
Rock bass	Paralabrax nebulifer.
-	Paralabrax maculatofasciatus.
Rockfishes	Sebastodes (species).
Sablefish	Anaplopoma fimbria.
Salmon:	DIM THOM MAR OTH MAR COLL PRESS
Blueback or sockeye	Oncorhynchus nerka.
Chinook	Oncorhynchus tschawytscha.
Chum or keta	Onocrhynchus keta.
Humpback or pink	Oncorhynchus gorbuscha.
Silver or coho Sculpin	Oncorhynchus kisutch.
summer out of ports in Washingto	∫Scorpæna guttata.
Seulpin	Scorpænichthys marmoratus.
Sea bass, black or jewfish	Stereolepis gigas.
and a state of the	(Cynoscion nobilis.
bea bass, white of squeteague	Cynoscion parvipinnis.
Shad	Alosa sapidissima.
Sheepshead	Pimelometopon pulcher.
	(Rhinobatidæ (species).
Skates	Rajidæ (species), and other skates and
Charles and the second se	rays.
1 - The second state of th	Atherindæ (species).
Smelt	Argentinidæ (species).
Sole	Pleuronectidæ (species).
Splittail	Pogonichthys macrolepidotus.
Steelhead trout	Salmo gairdneri.
NUCCENCENCE VICUUS = = = = = = = = = = = = = = = = = =	Sauno gunanore.

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Striped bass	Roccus lineatus. (Acipenser transmontanus.
Sturgoon	Acipenser medirostris.
SuckersSwordfish TomcodWhitebait WhitefishYellowtail	Catostomus occidentalis. Ziphias gladius. Microgadus proximus. Small fry of any fish. Caulolatilus princeps. Seriola dorsalis.
Crabs	Cancer (species). Echnoceras setimanus.
Crawfish_ Spiny lobster ShrimpAbalone Clams, hard Clams, razor Clams, rot Clams, soft Cockles	(Echnoceras setumanus. Astacus (species). Panulirus interruptus. Crago (species). Haliotis (species). Saxidomus (species). Tivela stultorum. Siliqua patula. Mya arenaria. (Cardium corbis. Paphia (species). Chione (species). (Mytilus californianus.
Mussels	Mytilus edulis.
Oysters, eastern Oysters, native Octopus Squid Turtles	Ostrea elongata. Ostrea lurida. Polypus hongkongensis. Loligo opalescens. Chelonia agassizii.

GENERAL STATISTICS

The Pacific Coast States, with their valuable salmon, halibut. tuna, and sardine fisheries, constitute one of our most important fishery sections. In 1922 there were 22,270 persons engaged in fishing and fishery industries, 698 vessels fishing and transporting fish, 4,173 power boats, and 1,041 sail and row boats fishing; \$28,651,490 invested in vessels, boats, gear, and shore property connected with the fisheries, and a production of 282,968,421 pounds of fish, shellfish, and whale products valued at \$12,983,583 to the fishermen.

According to the value of products, the salmon fishery, which is prosecuted all the way from Monterey, Calif., to Seattle, Wash., was the most important of the Pacific coast fisheries, producing 62,685,475 pounds, valued at \$3,795,988 to the fishermen. Chinook salmon was the most important species, yielding 30,704,884 pounds, valued at \$2,283,179. Next in importance was the halibut fishery, centering at Seattle. The fleets sailing out of ports in Washington and Oregon in 1922 landed 18,706,517 pounds, valued at \$1,925,482. A portion of this catch was landed in British Columbia and Alaskan ports, as is explained in greater detail in the discussion of the fisheries of the State of Washington. Third in importance was the tuna fishery of California, which produced 36,900,805 pounds of albacore, tuna, bonito, and skipjack, valued at \$1,847,567. The sardine fishery of southern California in 1922 landed 92,114,542 pounds, valued at \$1,381,008.

The following table gives the statistics, by States, of the persons engaged, vessels, boats, gear, investment, and products of the fisheries of the Pacific Coast States in 1922:

Persons engaged, investment, and products of the fisheries of the Pacific Coast States in 1922

Items	Washi	ington	Ore	gon	Calife	ornia	То	tal
Transa producto	Number	T.A.	NTerrol	17.2	N	17.3		- Martin
Porsons and	Number 7 600	Value	Number 5 407	Value	Number 0 172	Value	Number 22.270	Value
Persons engaged	7,600		5, 497		9,173	P1 440 040	22, 270	
Vessels fishing	6 990	\$1, 556, 000		\$18,000	209	\$1, 440, 940	520	\$3, 014, 940
Tonnage	6, 330	705, 536	48	10 500	3, 881	247 220	10, 265	
Outfit	01	493, 318	28	10, 500 196, 095	53	347, 330	170	1,063,360
Vessels transporting. Tonnage	1 490	435, 510	268		2,906	614, 670	4,663	1, 504, 08
Outfit	1,400	190, 493		26, 817	2, 900	45, 263	4,000	
Outfit.	1, 158	786 200	1,718	702 475	1, 297	1, 660, 560	4,173	262, 57
ower boats	1,100	100, 200	1, /10	100, 410	1, 201	1,000,000	4,170	3, 150, 23
Rowboats, sailboats,	248	11, 310	501	66, 305	292	29,671	1,041	107 994
etc Taul seines	88	10 561	501 44	35, 988		6, 650	1,041	107, 28
urse seines	115					120,000	169	
lill note	684	04 815	9 847	587 804	2, 820	171, 805	6, 351	
Pound nets Prammel nets Paranzella nets	270	766 546	2, 847 45	81 450	2,020	111,000	315	847, 996
Formal note	210	100, 010	10	01, 100	1,906	61,086	1,906	
Parangalla note					1, 500	7, 293	1, 500	
ampara nets					415		415	- 223, 08
loop nets, crab					410	220,000	410	220,000
trans ate	7 250	21 750	1 608	4 100	3, 222	6, 710	12,080	* 32, 659
Din nets	1,200	21, 100	1,000	149	3, 222	24	12,080	32, 05
Loop nets, crab traps, etc Dip nets Reef nets	2	1 400	50	142	12	and the second	0	1 101
Type note	0	1,400				1 229	222	1,400
Bog note	67	8 410			74	2,002	141	1, 33
ines	01	86 465		11 500	14	38 401	141	10,610
Roam trawle	19	3 650		11,000		00,401	12	136,456
Ye nets Jag net	12	1,000					12	3,650
Wheels	9	5,000	90	66 200	1.7. 11-		31	- 71, 200
Pote and trane	1000	0,000	1 534	4 053	4 540	19 415	6,083	16 465
Fonge hoos rakes			1,001	4,000	- 4, 549	12, 410	0,000	16, 468
oto	363	1 376	84	682	971	486	718	9 544
Pots and traps Fongs, hoes, rakes, etc Shrimp nets Dam forks Value outfit Whaling apparatus Shore and accessory property Dash capital Total	000	1,010	04	002	2/1	700	30	2, 044
Bruch wairs	1	800			50	100	1	800
lom forke	566	862					566	869
balone outfit	000	002	100		5	4 600	5	4 600
Whaling apparatus		3 600			0	26,800	0	30,400
hore and accessory		0,000				20,000		50, 100
property	002.9-	5 388 633		2 922 276		7 290 269		15 601 178
Jash capital		429 775		157 000		935 194		1 514 800
Jash capital	1			101,000				1,011,000
Total	2.621	10.711.500		4 892 576	1.0	13 047 414		28 651 490
100000		10, 111, 000		1,002,010		10, 017, 111		20, 001, 450
PRODUCTS	1	1 10 1 4 1						and the second
Albacore and tuna	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Ibacore and tuna	2 000000	, arac		ratue	25 252 392	\$1, 269, 417	25, 252, 392	\$1 269 417
Inchovies			190 2731	N05 127	652 516	13,049	652, 516	13,049
Barracuda					6 284 065	439, 817	6, 284, 065	
Bonito					11, 648, 413	578, 150	11, 648, 413	578, 150
Albacore and tuna Anchovies. Barracuda Bonito Carp, German Catfish. Cod, fresh Cod, salted Dolly Varden trout Flounder.	375, 160	\$12,054		Distant.	55 054	1,649	430, 214	13, 703
Catfish	0.0,100	4.2,001	0.023		7 361	1,005	7,361	1,005
lod, fresh	72.741	2,182			1,001	1,000	72, 741	2, 182
Cod. salted	1. 175. 875	86, 395			1,680,000	84,000	2, 855, 875	170, 395
Dolly Varden trout	300	48			1,000,000	01,000	2,000,010	48
Flounder	85, 211	2.454			4, 742, 819	470, 813	4, 828, 030	
Flounder Flounder Flyingfish Grayfish Hake	50, 211	2, 101			8,495		8,495	
Gravfish	6.359	22			314, 176	6,709	320, 535	6, 731
Hake	0,000				78, 763	1, 576	78, 763	1, 576
Halfmoon					78, 763 27, 791	832	27,791	833
Halfmoon Halibut	18, 467, 422	1,904,915	239,095	\$20.567	21,101	002	18, 706, 517	1, 925, 482
Hardhead		1, 0,01, 010	-00,000	4-0,001	18, 206	1, 183	18, 206	• 1, 185
Hardhead Herring	260 338	2 605			941 014		601, 952	9,437
Zingfish	200,000	2,000			579, 754	11, 595	579, 754	11, 595
'Lingcod'	236 010	4 654	21 108	513	569, 821	33,936	827,038	
Mackerel	1 360	1,001	21, 190	010	2, 498, 197	75,455	2, 499, 557	75, 550
Mullet	1,000	30			148 699		148, 628	
Parch	50 097	9 616			148,628 236,431	16, 341 9, 056	287, 358	
	00, 021	2,010			7 270	9,056	287, 358	11, 672 230
Pilzo Sacromonto					7,370	1 381 009	92 114 549	1 381 009
Pike, Sacramento					92, 114, 542	1,381,008	92, 114, 542	
Pike, Sacramento Pilchard or sardine								
Pike, Sacramento Pilchard or sardine Pompano					16,494	5,049	16,494	5,049
Herring Kingfish "Lingcod" Mackerel Mullet Perch Pickard or sardine. Pichard or sardine. Pompano Rock bass. Rockfish Sablefish	E1 700	0.951	0.070		16, 494 285, 494 4, 219, 650	16,449	285, 494 4, 273, 646	16.449

Persons engaged, investment, and products of the fisheries of the Pacific Coast States in 1922—Continued

Items	Washi	ington	Ore	gon	Calife	ornia	То	tal
Salmon:			1.98.6	115				
Blueback or sock-	Number	Value	Number	Value	Number	Value	Number	Value
eye	5, 104, 380	\$543, 743	935, 789	\$114,980			6, 040, 169	
Chinook	10, 969, 802	946, 422	12,650,132	757, 546	7,084,950	\$579, 211	30, 704, 884	
Chum	6, 319, 808	137, 190	128, 385	1,413			6, 448, 193	138,603
Humpback	144,683	5, 262					144, 683	5, 263
Silver	14, 816, 994	546, 495		125, 428		11, 298	19, 347, 546	
Sculpin					44, 176	889	44, 176	881
Sea bass:			Terrane de				Lower Lower	tel imorror.
Black or Jewfish					87, 559	4, 502	87, 559	4, 502
					11000	002.1		Tombroo T.
teague	596	47			2,904,054	176, 993	2, 904, 650	177, 040
Shad.	48,039	769	578,003	11, 332	1, 133, 270	55, 513	1,759,312	67, 614
Sheenshead		IN STATISTICS			18, 245	194	18, 245	194
Skates	4, 227	27	217, 350		121, 753	2, 437	125, 980	2,464
Skates Smelts	1, 392, 416	31,488	217, 350	2, 174	728, 406	51,908	2, 338, 172	
Sole	130, 886	3,931	25	1	6, 949, 557	211, 800	7,080,468	215, 732
Splittail					10,408	310	10,408	310
Splittail Steelhead trout	475.687	34,075	1, 820, 734	136, 802	2,490	174	2, 298, 911	171,051
Stringd bogg					678.820	62, 747	678, 820	62, 747
Sturgeon	267, 782	18,670	216, 765	13, 257			484, 547	31, 927
Suckers	201,102	20,010			1,348	27	1,348	
Suckers Swordfish		12 Il I			24, 363	506	24, 363	506
Tomcod						1, 251	31, 344	
Whitebait						8,828	84,007	8,828
Whitefish					32, 184	1,609	32, 184	
Yellowtail					3, 416, 572	68, 671	3, 416, 572	68, 671
Other fish			5 343	267	217, 781	7,657	223, 124	7,924
Other fish Crabs Crawfish	981 440	50 309	730,802	36, 499	844, 472	66, 543	2, 556, 714	153, 351
Crowfish	001, 110	00,000	68 935	9 226	011, 112	00,010	68, 935	9, 226
Spiny lobster				0, 220	966, 632	86, 302	966, 632	86, 302
Spiny lobster	62,000	7 430			990, 349	94, 534	1,052,349	
A balone	02,000	1,400			1, 523, 543	60, 943	1, 523, 543	
Clams:		********	********		1, 020, 010	00, 010	1, 020, 010	00,010
Hard	603 945	11 494	1000	1.	34, 189	2,280	1 727, 434	13, 704
					101 080	9, 599	2 191, 980	9, 599
Dozor	9 626 251	106 005	162 110	7 900	101,000	0,000	3 2, 799, 461	114, 195
Razor Soft	2,000,001	100, 000	82,800	8 278	341, 173	22, 114	4 423, 973	30, 392
Mussels			02,000	0, 210	13, 212	580	\$ 13, 212	
Ovsters:	********					000	- 10, 212	000
Fostern market	45 710	24 416			04 508	101, 351	6 140, 308	125, 767
Eastern, market Native, market Native, seed	377 678	24, 410	74 008	7 500	94, 598	101, 001	7 452, 676	291, 547
Native, market	10 502	1 500	14,000	1,000	*********		\$ 19, 593	1, 590
Octopus	19, 095	1,090		*******	99,274	3,409		3, 473
Octopus Squid	20, 220	04			000 075		119,499	9, 200
Cooklos			*****	*******	208, 875	9, 200 51	208, 875 860	5, 200
Cockles Turtles						64		64
Znorm oil	969 695	19 149			1,452		1,452	
Whole oil	1 769 500	12,103			37,875	2, 525	298, 500	14, 688
Sperm oil Whale oil Other whale prod-	1, 762, 500	94,000	********		6, 862, 500	366,000	8, 625, 000	460,000
other whate prod-	1 120 000	20 100	Sec. 1		0 100 000	01 000	1 000 000	04 510
ucts	1, 130, 000	30, 180			3, 136, 000	64, 330	4, 266, 000	94, 510
Total	69, 469, 805	4 953 913	22 371 764	1 255 689	191 126 852	6 773 081	282 968 421	12 983 583
	00, 100, 000	4,000,010	www. Or r Or	4, 400, 000	101, 120, 002	0, 110, 001	aca, 000, 121	1., 000, 000

¹ 90,929 bushels. ² 23,997 bushels. ³ 279,946 bushels. ⁴ 42,397 bushels. ⁸ 1,321 bushels.
⁶ 20,044 bushels.

⁷ 64,668 bushels. ⁸ 2,799 bushels.

NOTE.—In this report all craft of 5 net tons and upward are classed as vessels and all under 5 net tons are classed as boats.

COMPARISON WITH PREVIOUS STATISTICS

An examination of statistics available for former years strikingly reveals the changes taking place in the Pacific coast fisheries. With the development during the last decade of her tuna and sardine fisheries, California has forged ahead to leading place among the Pacific Coast States. Between 1908 and 1915 the number of persons engaged increased from 4,129 to 8,452, with a further increase to 9,173 in 1922. The investment increased successively from \$1,659,-000 in 1908 to \$5,824,263 in 1915 and to \$13,047,414 in 1922. The value of her products increased from \$1,970,000 in 1908 to \$2,506,702 in 1915 and to \$6,773,981 in 1922.

Washington, having passed the peak of development in her salmon and halibut fisheries, took second place in 1922. The number of persons engaged dropped from 14,645 in 1915 to 7,600 in 1922, her investment from \$14,129,553 to \$10,711,500, and her production from \$5,320,725 to \$4,953,913.

The decline in Oregon fisheries was less severe. The number of persons engaged was somewhat lower in 1922 than in 1915, the investment slightly higher and the value of products was lower.

The following table gives a summary of the comparative statistics on these States for various years from 1888 to 1922.

Items and States	1888	1892	1895	1899	1904	1908	1915	1922
PERSONS ENGAGED	18000	eran un Reco D	Head I	od: the	anine co	d-milling	danser	alte fils
Washington Oregon California	3, 363 3, 619 4, 684	4, 332	6, 323	9, 911 5, 643 3, 974	5, 299	4, 954 4, 772 4, 129	5, 900	7, 600 5, 497 9, 173
Total	11,666	14, 045	17, 305	19, 528	19, 658	13, 855	28, 997	22, 270
CAPITAL INVESTED				19-19-19-19-19-19-19-19-19-19-19-19-19-1	ain to	daudu	noi où	.bead
Washington Oregon California	\$1, 261, 078 1, 859, 299 2, 081, 950	2, 272, 351	2, 637, 412	3, 497, 643	3, 756, 692	1, 367, 000		\$10, 711, 500 4, 892, 576 13, 047, 414
Total	5, 202, 327	6, 392, 664	7, 274, 179	12, 873, 379	12, 839, 949	6, 468, 000	24, 017, 967	28, 651, 490
VALUE OF PROD- UCTS	JAN DALLA	negation of	D.of en	es bro	oqiliyi	lab-77	છી પેઇ આ	sind odd
Washington Oregon California	810, 326 733, 867 2, 465, 317	872, 405	1, 284, 136	855, 750	1, 185, 092	1, 356, 000	1, 479, 021	1, 255, 689
Total	4, 009, 510	4, 826, 964	4, 473, 048	6, 278, 639	6, 680, 866	6, 839, 000	9, 306, 448	12, 983, 583
		the second second		COLUMN TO A				

Summary of persons engaged, capital invested, and value of products in the fisheries of the Pacific Coast States in certain years from 1888 to 1922

CATCH OF INTRODUCED SPECIES

Several species of fish that have been introduced into waters of the Pacific Coast States from eastern sections of the United States have become well-established and yield an appreciable portion of the commercial catch. In order that the size of this catch may be readily followed through the years, the available statistics are presented in the table following.

State	Ca	rp	Catfi	sh	Sha	d	Striped	bass	Tota	il 761
1899—Washington Oregon California	Pounds 		105, 700 54, 360	\$2,114 1,087		\$1,275 320		17777	Pounds 190, 700 86, 360 3, 121, 546	1, 40
Total	_ 283, 514	2,400	625, 971	15, 935	1, 254, 801	15, 898	1, 234, 320	61, 814	3, 398, 606	96, 047
1904—Washington Oregon California	20,000			6,000	36, 846	1, 433	1, 570, 404		131, 287 236, 846 2, 705, 294	7, 63:
Total	- 90, 374	1,607	923, 144	27, 292	489, 505	13, 146	1, 570, 404	92, 116	3, 073, 427	134, 161
1908—Washington Oregon California	30, 000 427, 000	300 4, 300	201, 000 1, 069, 000	9,000 56,000	$100,000 \\ 431,000 \\ 1,169,000$	8,000		135, 000	100, 000 662, 000 4, 441, 000	17, 300
Total	457,000	4,600	1, 270, 000	65, 000	1, 700, 000	21,900	1, 766, 000	135, 000	5, 203, 000	226, 500
1915—Washington Oregon California	_ 50,000	750			488, 625	4,945	1, 784, 448		296, 298 538, 625 9, 510, 325	5, 693
Total	600, 815	5 11, 116	517, 054	24, 299	7, 442, 931	73, 216	1, 784, 448	146, 928	10, 345, 248	255, 559
1922—Washington Oregon California				1,005		11, 332	678, 820		423, 199 578, 003 1, 874, 505	11, 332
Total	430, 214	13, 703	7,361	1,005	5 1, 759, 312	67, 614	678, 820	62, 747	2, 875, 707	145, 069

Comparative statement of the catch of introduced species in the Pacific Coast States in 1899, 1904, 1908,¹ 1915, and 1922

¹ The statistics for 1908 in this table are from data published by the Bureau of the Census.

SALMON CANNING

In 1922 the salmon-canning industry was the most important of the fish-canning industries of the Pacific Coast States, producing 745,751 cases of salmon, valued at \$8,716,164. The chinook was the most important species, representing nearly 53 per cent in value of the entire salmon pack. Following the chinook, in order of importance, were blueback or sockeye, silver or coho, chum or keta, steelhead, and humpback or pink.

The following table gives the statistics for 1922 on this industry. Of the 58 canneries listed 16 were engaged in other branches of the canning or packing trade also. In two of them salmon canning was merely incidental. All of the products in the table were reduced to the basis of forty-eight 1-pound cans to the case.

Items	Washington		Oregon an	d California	Total	
Canneries Cash capital Persons engaged Wages paid	Number 34 1, 552	Value \$3, 110, 084 305, 800 721, 381	Number 24 977	Value \$1, 577, 470 110, 100 602, 154	Number 58 2, 529	Value \$4, 687, 554 415, 900 1, 323, 535
PRODUCTS	a en la	tom see	980 <u>0</u> 80	th so tote	(dead)	Pachart
Blueback or sockeyedo Chinookdo Chumdo Humpback or pinkdo Silverdo Steelhead troutdo	84, 640 119, 724 83, 090 3, 551 143, 499 7, 163	$1, 580, 673 \\1, 696, 119 \\345, 570 \\18, 546 \\1, 079, 668 \\102, 598$	13, 287 198, 013 5, 015 69, 135 18, 634	236, 228 2, 897, 509 21, 922 512, 935 224, 396	97, 927 317, 737 88, 105 3, 551 212, 634 25, 797	$\begin{array}{c} 1,816,901\\ 4,593,628\\ 367,492\\ 18,546\\ 1,592,603\\ 326,994 \end{array}$
Total	441, 667	4, 823, 174	304, 084	3, 892, 990	745, 751	8, 716, 164

Salmon-canning industry of the Pacific Coast States in 1922

Comparative statistics, by States, of the number of cases of salmon canned in the Pacific Coast States in certain years, from 1892 to 1922

States	Blue- back	Chinook	Chum	Hump- back	Silver	Steel- head trout	Total
1892—Washington Oregon California	19, 441 51, 106	134, 253 237, 684 14, 334	29, 411		28, 708 60, 293 1, 550	26, 945 45, 403	238, 758 394, 486 15, 884
Total	70, 547	386, 271	29, 411		90, 551	72, 348	649, 128
1893—Washington Oregon California	55, 237 23, 074	$\begin{array}{r} 129,078\\176,024\\26,436\end{array}$	23, 480 9, 230	17, 530	31, 707 62, 913 500	25, 663 39, 563	282, 695 310, 804 26, 936
Total	78, 311	331, 538	32, 710	17, 530	95, 120	65, 226	620, 435
1894—Washington Oregon California	53, 717 25, 523	156, 549 216, 507 31, 663	33, 952 3, 162	9, 049	32, 118 100, 087 500	23, 209 38, 829	308, 594 384, 108 32, 163
Total	79, 240	404, 719	37, 114	9,049	132, 705	62,038	724, 865
1895—Washington Oregon California	70, 304 12, 854	157, 187 316, 284 28, 635	48, 686 27, 027	23, 633	81, 957 138, 981 400	18, 985 30, 693	400, 752 525, 839 29, 035
Total	83, 158	502, 106	75, 713	23, 633	221, 338	49,678	955, 626
1899—Washington Oregon California	503, 950 19, 665	95, 147 214, 821 34, 180	42, 656 18, 345	252, 733	145, 139 78, 730	2, 258 9, 736	1, 041, 883 341, 297 34, 180
Total	523, 615	344, 148	61,001	252, 733	223, 869	11,994	1, 417, 360
1904—Washington Oregon California	112, 911 9, 264	$\begin{array}{r} \hline 140, 695 \\ 223, 646 \\ 17, 807 \end{array}$	94, 265 15, 150		168, 069 65, 557	3, 050 6, 818	518, 990 320, 435 17, 807
Total	122, 175	382, 148	109, 415		233, 626	9, 868	857, 232
1908—Washington Oregon California							460, 229 340, 396 3, 938
Total		7 008,8					804, 563
1915—Washington Oregon California	4, 510	178, 464 292, 765 19, 508	450, 409 40, 728	590, 378	206, 508 53, 405 3, 578	10, 270 18, 783	$\begin{array}{r} 1, 527, 749 \\ 410, 191 \\ 23, 086 \end{array}$
Total	96, 230	490, 737	491, 137	590, 378	263, 491	29,053	1, 961, 026
1922—Washington Oregon and California	84,640 13,287	$\frac{119,724}{198,013}$	83, 090 5, 015	3, 551	143, 499 69, 135	7, 163 18, 634	441, 667 304, 084
Total	97, 927	317, 737	88, 105	3, 551	212, 634	25, 797	745, 751

FISHERY PRODUCTS EXCLUSIVE OF FRESH, FROZEN, AND CANNED FISH

The production of dried, salted, smoked, and miscellaneous products, other than fresh, frozen, and canned fish, in the Pacific Coast States in 1922 amounted to 63,716,144 pounds, valued at \$3,979,043. Most important of these products was the mild-cured fish, of which 6,798,470 pounds, valued at \$1,515,266, were produced. This is a small increase in quantity and a large increase in value as compared with 1915, when 6,032,727 pounds, valued at \$713,527, were produced. The various species of salmon constituted 97 per cent of the fish cured in this manner, the remainder being shad.

The production of smoked fish, of which kippered salmon was by far the most, important item, amounted to 2,730,858 pounds, valued at \$422,073. The dried and salted fish products were of minor importance.

Fish scrap and meal, including that from whales, totaled 37,550,000 pounds, valued at \$1,109,812, making it the most important byproduct of the fisheries. The production of fish oil amounted to 1,925,085 gallons, valued at \$712,837. The pronounced growth of

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the by-products industry may be realized when the production of 1922 is compared with that of 1915, when only 6,668,000 pounds of fish scrap and meal, valued at \$139,035, and 266,812 gallons of fish oil, valued at \$79,103, were produced.

The following table gives the detailed statistics of the above-mentioned products:

Quantity and value of	various fishery products prepared,	exclusive of canning, in the
ę da ing	Pacific Coast States in 1922	and the state of the set of the

Methods and products	Washir	Washington		gon	Califor	rnia	Total		
DRIED Barracuda	Pounds	Value	Pounds	Value	Pounds 65, 000	Value \$4, 650	Pounds 65, 000	Value \$4,65	
Rockfishes and Spanish mackerel					$12,000 \\ 600 \\ 61,000$	840 120 4, 435	600) 120	
Yellowtail Total					105,000	8, 450 18, 495		8,450	
MILD-CURED						10, 100			
Salmon: Chinook Miscellaneous Shad	4, 059, 750		250, 000 72, 000	6, 300	1,602,200	275, 390 13, 319	686, 620 5, 911, 950 199, 900	1, 272, 320	
Total	4, 059, 750	956, 930	1,008,620	269, 627	1, 730, 100	288, 709	6, 798, 470	1, 515, 260	
SALTED		- 5			0.400	250	0.400	0.5	
Anchovies Mackerel Sablefish Salmon:					20,000	256 1, 300			
Chinook Silver Mixed Salmon eggs			26, 500	2,730 2,325	32,600	3, 260	28, 850 26, 500 63, 600	2,730 5,585	
Sardines Sardines (Salacchini)				60	381, 700 80, 000	31, 370 32, 000	300 381, 700 80, 000	60 31,370 32,000	
Yellowtail Miscellaneous species					52, 730 3, 000	5, 873 60	3,000	6	
Total	50,000	5,000	86, 650	10, 825	576, 430	74, 119	713, 080	89,944	
SMOKED			f		21.000	1 000	01.000	1.90	
Bonito Cod (kippered) Herring Sablefish	176, 457	28, 562 7, 431				1, 200	176, 457 89, 009	28, 56: 7, 43	
Sablefish Salmon: Chinook	12 152.24	1003	60, 868	21,690	98, 760	7, 550	98, 760 60, 868	111	
Mixed (kippered)	145, 746	21, 804 328, 946	7,154	21, 690	1,086	184	153, 986 2, 114, 978	5 24, 13- 328, 94	
Sardines Total		386, 743	68, 022	23,836	$ 12,800 \\ 136,646 $	2, 560 11, 494	$ \begin{array}{r} 12,800 \\ 2,730,858 \end{array} $	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
MISCELLANEOUS	San Chiran			CORE IS	at ourse		THEFT I	1 4 3 4 1 1 1	
Fish scrap and meal dried.	17, 382, 000	551, 770	200,000	5,000	19, 968, 000	553, 042	37, 550, 000	1, 109, 81	
Oil: Salmon Sardine Tuna					3, 216, 442	145, 868		4,42 145,86	
Sperm Whale Miscellaneous	$ \begin{array}{c c} 260, 625 \\ 1, 762, 500 \end{array} $	$ \begin{array}{c} 12,163 \\ 94,000 \\ 53,736 \end{array} $	3 		37,875	$\begin{array}{r} 23,617\\ 2,525\\ 366,000\\ 10,508\end{array}$	⁴ 298, 500 ⁵ 8, 625, 000	14,68 460,00	
Total		159, 899	97, 500	4, 420	11, 010, 749			-	
Other products 8					1, 242, 000	110, 616	1, 242, 000	-	
Grand total		2,060,342	1, 460, 792	313, 708	34. 907, 525				

1 13,000 gallons. ² 428,859 gallons. ³ 86,099 gallons.

⁴ 39,800 gallons. ⁵ 1,150,000 gallons. ⁶ 207,327 gallons.

7 1,925,085 gallons.

⁸ Includes agar-agar, whalebones (skeletons) whale tails, and abalone jewelry.

Note.—The statistics of by-products for Washington in the above table have been revised in accordance with reports received since the publication of Statistical Bulletin No. 570, entitled "Canned Fishery Products and By-products of the United States and Alaska, 1922," resulting in a considerable increase in the quantity and value of fish scrap and meal, dried, and miscellaneous oil.

FISHERIES OF WASHINGTON

The fisheries of Washington in 1922 employed 7,600 persons, 404 vessels, 1,158 power boats, and 248 sail and row boats. The investment in vessels, boats, gear, and shore property amounted to \$10,711,500, and the products of the fisheries amounted to 69,469,805 pounds, valued at \$4,953,913 to the fishermen.

The various species of salmon were the most important of Washington's fishes, yielding 37,355,667 pounds, valued at \$2,179,112. Chinook salmon ranked highest in value, yielding 10,969,802 pounds, valued at \$946,422, and silver salmon ranked highest in quantity, yielding 14,816,994 pounds, valued at \$546,495. It is estimated that about 83 per cent of the salmon catch was canned, 10 per cent mild cured, salted, and smoked, and the remainder sold fresh or frozen.

Next to salmon in importance is the halibut. The fleet of halibut vessels registered and sailing from ports in Washington caught 18,467,-422 pounds, valued at \$1,904,915. Of this catch 9,011,333 pounds, valued at \$993,622, were landed in the State of Washington, 1,348,-213 pounds, valued at \$108,054, in Alaska, and 7,936,700 pounds. valued at \$786,528, in British Columbia. Practically all of the halibut is sold fresh or frozen and is shipped to many distant points in the United States. The following table gives statistics showing the landings of halibut in Washington, Alaska, and British Columbia by vessels registered in the State of Washington:

Counties Al	100 Alas	ka	British C	olumbia	Washin	ngton	Total	
Clallam	Pounds	Value	Pounds	Value	Pounds 27, 500	Value \$2,704	Pounds 27, 500	Value \$2,704
Island King Kitsap Pacific	1, 210, 366 9, 747	\$95, 182 576	6, 194, 900 233, 500	\$610, 508 22, 952	2,600 7,811,306 440,800 3,000	256 870, 788 47, 150 308	$2, 600 \\15, 216, 572 \\684, 047 \\3, 000$	256 1, 576, 478 70, 678 308
Pierce Skagit	128, 100	12, 296	1, 508, 300	153, 068	720, 450 5, 677	71, 962 454	2, 356, 850 5, 677	237, 326 454
Total	1, 348, 213	108, 054	7, 936, 700	786, 528	9, 011, 333	993, 622	18, 296, 246	1, 888, 204

Landings of halibut, by counties, by vessels registered in the State of Washington

The cod fishery, next in importance to the halibut fishery, was for the most part carried on by a few large vessels sailing from ports in the State of Washington to the cod banks in Alaskan waters, where they fished during the summer months, bringing back their cargoes of salted cod at the end of the season. In this year 1,175,875 pounds of salted cod, valued at \$86,395, were reported, which is estimated to be the equivalent of about 2,940,000 pounds of fresh cod. In addition to the salted cod there were 72,741 pounds of fresh cod, valued at \$2,182. This makes a total of about 3,000,000 pounds on the fresh basis, as compared with 13,745,710 pounds on the fresh basis reported for 1915.

The production of other fish in 1922 was 4,408,733 pounds, valued at \$158,772, of which sablefish, steelhead trout, smelts, and carp were most important. The production of shellfish amounted to 4,836,242 pounds, valued at \$486,194. The item contributing most to the value of the shellfish was the oyster, of which 442,981 pounds, valued at \$310,053, were produced. The razor clam, largely used in canning, amounted to 2,636,351 pounds, valued at \$106,905 to the fishermen. The catch of other shellfish, including hard clams, crabs, shrimp, and octopus, amounted to 1,756,910 pounds, valued at \$69,236.

The products of the whale fishery, which is prosecuted by vessels operating from shore stations, amounted to 3,153,125 pounds, valued at \$136,343, and consisted largely of oil, scrap, and meal. In 1915 whale products amounting to 3,933,125 pounds, valued at \$141,441 were reported.

The counties bordering on Puget Sound support the most important fisheries, producing 49,755,483 pounds, in 1922, valued at \$3,810,646. Practically all of the halibut, cod, sablefish, and other marine fishes caught by fishermen of these counties are taken on the banks of the North Pacific Ocean, from the State of Washington north to Alaska. The salmon is fished to a great extent in Puget Sound.

King County, with the important port of Seattle, is by far the most important in the Puget Sound district as well as in the State. In 1922 there were 1,733 persons engaged, an investment of \$3,346,812, and a production of 24,825,865 pounds of fishery products, valued at \$2,066,694. Based on the value of products, this amounts to over two-fifths of the State's total production and is six times as great as the production of any other county. Halibut was the most important fishery resource, yielding 15,216,793 pounds, valued at \$1,576,499; the various species of salmon were next in importance, yielding 7,676,472 pounds, valued at \$376,502; while cod, sablefish, and other less important marine products made up the balance of fishery production in this county.

Whatcom was second to King County in the value of fishery products, yielding 7,228,672 pounds, valued at \$486,871, practically all of which consisted of salmon, although quantities of herring, smelts, steelhead trout, and crabs were caught also. Pierce County, with its important port of Tacoma, produced 7,629,580 pounds of fishery products, valued at \$479,882. Salmon and halibut were the most valuable of her fishes, though other marine fish, smelts, hard clams, and shrimps were caught in limited quantities also. Thurston County's production of 334,953 pounds, valued at \$210,288, consisted almost exclusively of oysters, with a few fish, shrimp, and hard clams making up the remainder of the catch.

Kitsap County produced 3,077,109 pounds of products, valued at \$168,795, the major portion of which consisted of salmon and halibut. A few marine fish, smelts, and crabs made up the remainder. Skagit County produced 2,943,424 pounds, valued at \$144,452. Salmon was the most important product, although there was a considerable quantity of cod, other fish, and crabs. Island County produced principally salmon, its entire production amounting to 1,835,836 pounds, valued at \$113,146. Each of the remaining counties bordering Puget Sound produced less than \$100,000 worth of fishery products. San Juan and Snohomish Counties produced chiefly salmon, although the latter included in its production a goodly quantity of crabs, while Mason County's production consisted almost exclusively of oysters. Clallam County, with its seaboard on Puget Sound and the Pacific Ocean, produced 2,910,070 pounds of fishery products, valued at \$172,276. Most of the catch consisted of salmon, with a limited quantity of halibut, crabs, and hard clams.

The seacoast counties of Washington produced 12,936,092 pounds of fishery products, valued at \$732,098, which constitute about onesixth of the production of the State. Grays Harbor County was most important, producing 8,782,595 pounds, valued at \$405,170. About half of this catch was salmon, one-third was whale products, and one-sixth razor clams, with a limited amount of other fish and crabs. Pacific County was accredited with the production of 3,772,374 pounds, valued at \$316,951, about two-thirds of which was salmon, one-sixth oysters, one-tenth razor clams, and the remainder steelhead trout, sturgeon, and crabs. Jefferson County produced 381,123 pounds, valued at \$9,977, consisting chiefly of salmon, hard clams, and razor clams.

The counties bordering on the Columbia River produced 3,652,926 pounds, valued at \$228,726, which was approximately 4 per cent of the State's production. Salmon, steelhead trout, a few sturgeon, and smelts constituted the bulk of this production. Wahkiakun County was the leading Columbia River county, with a production of 1,072,131 pounds, valued at \$101,749.

Other counties in the interior of Washington produced approximately \$10,000 worth of fishery products, consisting mostly of carp and salmon.

The following tables give in detail the statistics of the fisheries of Washington in 1922.

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Persons engaged, investment, and products of the fisheries of Washington in 1922, by counties

Items	Clall	am	Cla	irke	Cow	litz	Grays Harbor	
PERSONS ENGAGED	Number 18	Value	Number		Number	Value	Number 42	
On vessels transporting In shore or boat fisheries Shoresmen	165 48				3 112 19		11 608 391	
Total	231		87		134		1, 052	
INVESTMENT		1000		26.97	110.00	U COL	1967	AG R
Vessels, fishing, steam Tonnage Outfit							3 195	15,00
Vessels, fishing, gasoline	9 67	\$15, 800					8 59	11, 75
Outfit Vessels, transporting, gasoline Tonnage					2 15	\$4, 500	65	
Outfit Power boats Rowboats Apparatus, vessel fisheries:	77 3	69, 300 150	44 2		81	2,000 61,800		38, 17
Hoop nets. Lines. Whaling apparatus.		595					50	15 4 3,60
Apparatus, shore fisheries: Haul seines			3	1, 200				
Length in yards Gill nets Length in yards	2.300		500 49 15, 791	6, 264	20, 935		23, 351	
Pound nets Hoop nets Pots	280	840			13	10, 200	32 280	
Lines Drag-bag nets Tongs, forks, hoes, etc		3, 195			31	155		17
Shore and accessory property Cash capital		45,600		3, 500				422, 96 60, 00
Total		145, 941		43, 564		128, 436		792, 86
PRODUCTS Carp	Pounds	Value	215, 140		Pounds	Value		Value
Cod: Fresh Halibut "Lingcod" Salmon:	3, 370 100, 176 147	\$118 9, 836 3						
Blueback or sockeye Chinook Chum	1, 362, 355	108, 837	74, 384 138, 581 7, 935	16,630	308, 467	\$19, 693 37, 014 949	648, 750	32, 51
Shad	1, 314, 252	49, 413	7,949	278 81	150, 205 10, 692	5, 255 111	917, 752	27,60
Smelt Steelhead trout Sturgeon	10, 296	824	15,450 23,069 15,190	1,615	66, 597	11, 376 5, 071 1, 985	5,656	39 2, 3
Crabs Clams: Hard	39, 247	2, 192					111, 473	
Razor Octopus	68, 230 11, 997						1, 807, 884	
Sperm oil Whale oil Other whale products							260, 625 1, 762, 500 1, 130, 000	94,00
Total	2, 910, 070	172, 276	505, 758	36, 027	1, 959, 734	81, 454		

Persons engaged, investment, and products of the fisheries of Washington in 1922, by counties—Continued

Items	Islan	nd and	Jeffe	rson	Ki	ing	Kitsap	
PERSONS ENGAGED		1				i lisono	en exactly	Sec. 1
On vessels fishing	Number 13	Value	Number	Value	Number 930	Value	Number 172	Value
On vessels transporting	10				950 66		1/2	
On vessels transporting In shore or boat fisheries	91				297		141	
Shoresmen			22		440		17	1111111
Total	104		124		1, 733		333	T
INVESTMENT								
Vessels, fishing, gasoline Tonnage		A7 000			140	A770 700	00	A100.00
Tonnage	4	\$1,000			140 2,652	\$776, 700	33 463	\$103,00
Outfit		2,100			2,002	516, 250		29 45
Tonnage Outfit Vessels, fishing, sail					2	30,000		
Tonnage					563	10 249		
Vessels transporting gasoline					21	19, 348		1,20
Tonnage Outfit Vessels, transporting, gasoline Tonnage					382	100,000	9	
Outilt						79, 472		350
Power boats		22,850	11	\$4, 550 50	104	89,950		
Rowboats Apparatus, vessel fisheries:	10	500	1	50	42	2, 100	1	3
Purse seines Length, in yards	1	1, 200			30	36,000		
Length, in yards	600				18,000		13, 200	
Haul seines					3 177	215	1 85	7:
Beam trawls					111		1	400
Length, in yards Beam trawls Drag-bag nets Lines	1	250			2	900	ĩ	250
Lines		105				60, 700		4, 25
Apparatus, shore fisheries:	0	007	1	63	8	482	21	975
Haul seines Length, in yards Gill nets	800	001	25	00	615		1,752	
Gill nets		9			19	4,060	4	505
Length, in vards					9.200		917	
Pound nets	120	360			22 150	154, 936 450		78
Pots Lines	and a state of the	010		455	100	2,640		555
Drag-bag nets Beam trawls	4	1,000			1	250	11	2,750
Beam trawls			1	250		250		
Tongs, forks, hoes, etc Shore and accessory property.						14 1 358 020		99 17, 193
Cash capital								5,000
Total				29, 314		3, 346, 812		231, 411
PRODUCTS								
Cod:	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Fresh		\$12			27,011	\$815	28, 294	
Salted					409, 875	56, 395	10 147	
Flounders Grayfish					7, 325 1, 500	147	10, 147 33	279
Halibut Herring "Lingcod" Mackerel	25,600	2, 517			15, 216, 793	1, 576, 499	716,047	
Herring	67	1			81, 872	819	65, 447	655
"Lingcod "			77.7757777		211, 690	4, 244	9, 200	122
Perch					13, 621	$\begin{array}{c} 95 \\ 677 \end{array}$	16,872	843
Perch Rockfishes				2	39, 600	1,785	1,000	20
Sablefish					1,002,100	42, 184	2,000	40
Salmon: Blueback or sockeye			12.6		589, 899	65 060	72, 485	7, 777
Chinook	935, 340	74, 841	27, 420	\$2, 192	1, 639, 975	65, 069 131, 210	303, 778	24, 104
Chum Humpback	15, 576	1, 246			1, 702, 589	40, 657	512, 367	12, 501
Humpback	700 494				20, 223	729	3,765	134
Silver Sea bass, white, or squeteague	766, 434	28,007	25, 726	954	3, 723, 786 40	138, 837 3	843, 727 41	32, 462
Shad					218	22		
Skates					2,100	8	1, 580	
	67, 754	5, 420		130		307	62, 832 92, 772	5,027
Smelt			460	14	27,408 26,677	822 1,867	92, 772 56	2, 787
Sole	10. all a 10.				3, 100	383		20012
Sole Steelhead trout Sturgeon								
Sole Steelhead trout Sturgeon		997			40, 150	2, 208	80	
Sole		997			40, 150	2, 208	80 21, 771	
Sole Steelhead trout Sturgeon Crabs Shrimp Clams'	18, 230				40, 150		21, 771	2, 612
Sole	18, 230 6, 020	. 91			40, 150 29, 850	896	21, 771 312, 516	2, 612 4, 820
SoleSteelhead troutSturgeon Crabs Chams: Hard	18, 230	. 91	246, 015	3, 691	40, 150 		21, 771	2, 612 4, 820

Persons engaged, investment, and products of the fisheries of Washington in 1922, by counties—Continued

• Items	Kliel	citat	Ma	son her	Pacif	îc	Pierce	
PERSONS ENGAGED	Number	Value	Number	Value	Number	Value	Number	Value
On vessels fishing			13		20		335	
On vessels transporting					8		13	
In shore or boat fisheries Shoresmen	9		45		539 157			******** ********
					504		405	
Total	9		58		724		465	
INVESTMENT						1		
Vessels fishing, gasoline			2	\$4, 500	7	\$22, 800	66	\$310, 850
Tonnage			25		61	9 150	1,008	85, 200
Outfit				900	4	3,150 15,800	6	
Vessels transporting, gasoline Tonnage					31	10,000	130	40,000
Outfit					01	4,100		20,040
Power boats Rowboats	8	\$6,400	5	2,700	228	148,090		67,000
Rowboats			3	150	5	250	1	50
A proceeding voccal fisheries.					La			10100
Purse seines			2	3,000	1	1, 200	30	36,000
Longth in words			1.200		600		18,000	
Beam trawls			2	500	40	120		
Hoop nets				100	40	535		7,900
Apparatus, shore fisheries:				100	*********	000		
			5	315	2	2,400	2	250
Length, in yards			495		1,000		185	
Gill nets	7	410			96	31,658	3 1,100	1,435
Length, in yards	670				35, 056		1,100	
Pounds note	7	5, 500			120			********
Hoop nets				100	955	2,865 1,725		1, 385
Lines		70	1	250		1,120	03677107.00	1,000
Wheels	1	2.500		200	1	2, 500		100000
Drag bag nets Wheels Beam trawls	-	2,000				-,	2	500
Tongs forks hoes etc				224		909		
Shore and accessory property Cash capital		2,000		18,600		293, 171 12, 600		264, 800 10, 800
		11					Contraction of the second	TING
Total		16,880		31, 339		722, 573		846, 212
PRODUCTS	1.11							
	Pounds		Pounds		Pounds	Value	Pounds	Value
Cod, fresh				\$17			2,015	
Flounders Grayfish			35				1, 013 210	
Halibut					3 000	\$308		
"Lingcod"	and the second se			and the second se	0,000	4000	11,600	
Perch			12, 161	596			1,654	85
Rockfishes			120	4			2, 110	
Sablefish							17,600	642
Salmon:	11 100	A1 004		1.2 0	004 070	00 100	010 014	02 200
Blueback or sockeye		\$1, 834 896			234, 670 1, 190, 961		210, 644 987, 915	
Chinook Chum	5, 526		65 077	1 659	1, 190, 901	2, 444	1, 200, 288	28, 610
Humpback	5		00,011	1, 658	173, 439 163	2, 111	16, 451	606
Silver	14, 221			626	800, 479	28, 155		
Shad								
Skates			47	2				
Smelt			12,646				12, 784 9, 350	1,023
Sole			179	5		10 700	9,350	281
Steelhead trout		1,448			196, 556 82, 044	13, 738 5, 794	10	Lignid Do
Crabs		0/1			253, 480			
Shrimp			17,854	2, 142		10,010	3, 712	445
Clams:					1	national and	C INTERNA	
Hard							1,009	15
Razor					748, 590	32, 613		
Oysters:	1.2 .		-		-			L. dia
Native, market			76, 286			50,000		10000000
			10, 48/	1, 432				4
Native, seed Octopus					and the second se		1.455	4
Octopus Total	-11	5, 304	222,054	59,734	3, 772, 374	316, 951	1,455	
Persons engaged, investment, and products of the fisheries of Washington in 1922, by counties-Continued

Items	San J	uan	Ska	git	Skam	ania	Snohor	nish	Thur	ston
PERSONS ENGAGED	Number	Value	• Number	Value	Number	Value	Number	Value	Number	Value
On vessels fishing On vessels transport-	4		75				70		3	
ing In shore or boat fish-	0				18					
eries Shoresmen	40 60		145				306		53 51	
Total	110		426		20		431		109	
INVESTMENT			1212		00000	Contraction of the	Contract -			PERMIT
Vessels fishing, gaso-		\$4 E00		\$99 P00			10	\$e1 500		¢1 90
Vessels fishing, gaso- line Tonnage Outfit Vessels fishing sail	14	\$4, 500	121	\$22, 800			12 198	\$61, 500	11	φ1, 300
Vessels fishing, sail		405	1	2,900				5, 500		25
Tonnage			413	10, 500						
Outfit				12, 500						
Vessels transporting,			1.1.1							
vessers transporting, gasoline Tonnage Outfit	3	12,600	14	40, 500	1	\$1, 500	3	16,800	2 17	2,80
Outfit	04	3 150	100	9 970	•	500	00	2 300	11	65
Vessels transporting, sail		0,100		0, 010		000		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1	
Tonnage				and a second second			17			
Outfit		19 000	197	52 050	6	2 100	20	2,300		1 69
Outfit Power boats Rowboats Apparatus, vessel fish-	3	12,000	16	655	11	2, 100	30	10, 250	9 5	4,08
Apparatus, vessel fish- eries: Purse seines Length, in yards Length, in yards	216			a bed	M					
Purse seines			2 000	4, 400			5 100	15,000		
Hanl soines			2,000	145			5, 400			
Length, in yards.			54	110						
Length, in yards							250			
Beam trawls			1	500			1	1,000	1	5
Length, in yards Otter trawls Beam trawls Drag bag nets Pots Lines			80	240			200	600	î	20
Lines Apparatus, shore fish-		45		190						
eries'		125	6	870			7	520	5	27
Haul seines Length, in yards Gill nets	255	155	322				000	17124100	9.07	1. 1. 1. 1.
Gill nets			68	4,735	12	955	10	3,638	367	
					2,035		5,650			
Pound nets	. 4	28,000	2 720	39,200	1	1,000		1 410		
Lines		320	5,720	325		35	470	45		
Pound nets Pots Lines Drag bag nets			5	900			1	100	5	1,00
Reef nets	. 3	1.400					630 10 5,650 			
Tongs, forks, hoes, etc		2								
Shore and accessory property	1	73, 581	a la sella	257 853		2 500		265 176		72.51
Cash capital		10, 500		20, 600						
Total		146, 783		499, 795		9, 140		432, 984		95, 21
PRODUCTS										
Cod	Pounds		Pounds	Value	Pounds	Value			Pounds	
Fresh				\$42			3, 935	5 \$138	3	
Dolly Varden trout			766, 000) 		300	1	3	
Flounders	1.1.1.1.1.1.1		135		3					
Grayfish			250	1						
Halibut	3 409	273		484						
Herring "Lingcod"	- 1,075	11			2			60)	
Perch			1,100				5, 199			
Rockfishes Salmon:			NO2 102				400		1.1.201 6	10 A
Blueback or sockeye	- 81, 109	8,759	112, 420	12, 319	9,62	5 \$1, 252	15,72	1,738	3	
Chinook Chum		$ \begin{array}{c c} 1 & 21,019 \\ 1 & 164 \\ \end{array} $	607, 660 313, 560	48, 612	5, 14	$\begin{array}{c c} 2,086\\ 4 & 51 \end{array}$		2 8 76	7	
Humpback	22, 69	856		. 17	7		18	6 0, 10,	7	
Silver	246. 329				8 1,42	8 50		1 13, 01	2	
Sea bass, white, or squeteague	_ 100	0 8					41	5 2	3	

Persons engaged, investment, and products of the fisheries of Washington in 1922, by counties—Continued

Items	San J	uan	Ska	git	8	kama	ania	a	Snoh	omis	h	Thu	rston
PRODUCTS-con.			1			+1	1	-		1	5.04	tes and	Lan
	Pounds	Value	Pounds	Value		unds			ounds	V	alue	Pounds	Value
Shad					1	5,150	\$	314					
Skates. Smelt Sole	24		25, 329	\$2, 047	1			***	50 14, 62 71	17 1	\$10 1,830 22	31, 648	\$2, 53
Steelhead trout Sturgeon	424	\$34	7, 452	- 682	1000	1,352 4,970	1.3	92					
Crabs Shrimp Clams, hard			249,080 10,811 1,000	9, 999 1, 297				***	119, 50	0	8, 574 124	6, 822 17, 955	
Oysters: Eastern, market												45, 710	24, 41
Native, market		* * * * * * *				****	- 11				*****	231, 392	181, 80
Native, seed Octopus	594	1	2,614	13		* * * * *			*****			1, 100	158
Total				in a second second			-						210.28
		,	.,,	,	1		-		ouch at				1
Items		Wa	hkiakum	v	Vhat	teom		Othe	r coun	ties	1	Tota	l and l
PERSONS ENGAG	ED	1000				÷.			1			print	n teror Menan V
On vessels fishing			ber Valu		116			Numl				1, 811	
On vessels transporting			12		68	*****					1		
In shore or boat fisheri Shoresmen			287		$186 \\ 595$				20		1	3, 109 2, 443	
Total		-	465		965		1	1	20			7,600	
INVESTMENT		-				1	-	-				ral ana	17.3
Vessels, fishing, steam. Tonnage								and a second sec			1020	3 195	\$90,000
OULTIT											ALC: NOT THE	The second second	12 000
Vessels, fishing, gasolir Tonnage Outfit Vessels, fishing, sail	1ė				16 390	\$77,5	200					307 1, 5, 159 .	419, 700
Outfit.						7,	580		** ***				658, 688
Vessels, fishing, sail Tonnage						****						3 976	10,000
Outnt							4						31, 848
vessels, transporting, s	steam				- 5	56, 4	500					5	56, 500
Tonnage Outfit					138	15 (000					138	15,999
vessels, transporting o	rasolina		6 \$16.0	00	17	00 1							411, 818
Tonnage Outfit Vessels, transporting		-	62		335						1000	1, 334	
Vessels, transporting, s			11, 1	50		34,							172, 194
Tonnage	5411					*****						17	25,000
Outht													2,300
Power boats Rowboats		-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	00 00	21 27	10, 1,	500 400		12 \$	5, 250		1, 158 248	786,200
Apparatus, vessel fishe Purse seines	eries:				16	21	800		-		1.	115	151,000
Length, in yards.					600							68,600	151,000
Haul seines				a la la la cara							1.1.		432
Gill nets											1	316	105
Dength, in yards		and the second second	and a second second	the later of the second							1015	1 250	185
Otter trawls								1				1	1,000
Deam trawis								1 A. U. 181	1000		1	5	1,450
Drag bag nets Hoop nets				Contraction of the second		*****		******				5 90	1,600 270
1005					200		600				Sen-	480	1, 440
Lines Whaling apparetus													74,470
Whaling apparatus. Apparatus, shore fisher Haul seines	ries:	1.											3,600
Haul seines Length, in yards					4 403		325	1.4	8	1, 315		83	10, 129
Gill nets			144 20.6	08	403		150					8,768 683	94, 630
Length, in vards		51	344		600						1	77, 379	La Landa
Pound nets Hoop nets			20 26 4		28	207,3	395					270	766, 546
Pots	and the second second second	- In a second							and the second second		S	1,235	3,705

¹ Includes Asotin, Garfield, Grant, Okanogan, Walla Walla, and Whitman Counties.

Persons	engaged,	investment,	and	products	of the	fisheries	of	Washington	in	1922,
and the second			by ce	ounties-	Contin	ued				

Items	Wahki	akum	What	tcom	Other c	ounties 1	To	tal
INVESTMENT-continued	ALL OF THE	il roll detto	en Ado Adoido		200100	a dena Series	it ist. gaad	1999 1999 1999
Apparatus, shore fisheries—Con. Lines	Number	Value	Number	Value	Number	Value	Number	Value
Drag hag note		\$10		400		900	62	\$11, 99 6, 810
Drag bag nets Wheels	I THE P	0	4	400			02	5, 00
Room trowle				1.			27	0 000
Reef nets							3	1,40
Wiers			1	800			1	80
Tongs, forks, hoes, etc		041 154		1 005 940				2,23
Reef nets		341, 154		125 000				5, 388, 63
cuon capital		01,000		120,000				422, 11
Total		590, 027		2,556,873		6, 615		10,711,50
PRODUCTS					-			
Carp	Pounds	Value	Pounds				Pounds	Value
Cody	********			*******	160, 020		375, 160	\$12,054
Fresh							72, 741	2, 182
Salted							1, 175, 875	86, 395
Dolly Varden trout							300	
Flounders			********				85, 211	2,454
Grayfish Halibut	4, 300	\$10					6,359 18,467,422	
Herring			101.897	\$1,019			260, 338	
Herring "Lingcod"							236,019	4,654
Mackerel							1,360	98
Perch							50, 927	2,616
Rockfishes		*******					51,726 1,021,700	2, 351 42, 860
Salmon:			********				1, 021, 700	12,000
Blueback or sockeye	56, 976	7,416	2, 100, 073	230, 449	19, 103		5, 104, 380	543, 743
Chinook	633, 638	76,046	1,836,897	146, 946	2,040		10, 969, 802	946, 422
Chum.	35, 681 170		1,061,875	25, 215	185	2	6, 319, 808	137, 190
Humpback			76, 175 1, 883, 515	2, 739	15 077	598	144,085	5, 262 546, 495
Sea bass, white, or squeteague	100, 110	0,722	1, 000, 010	10,000	15,017	040	144, 683 14, 816, 994 596	47
ShadShadShadShadShadShad	4,927	50					48,039	769
Skates			5, 332				4, 227	27
Smelt	1,100	13	5, 332	618			1, 392, 416	31,488
SoleSteelbead trout							130,886 475,687	3, 931 34, 075
Steelhead trout Sturgeon	79, 170	5, 642	12,100	1,017	7.345	514	267, 782	18,670
Crabs			12, 708 150, 200	8,259			981, 440	50, 309
Shrimp Clams:		*******					62,000	7,439
Clams: Hard				1.2.2	S		693, 245	11, 424
Razor							2, 636, 351	106, 903
Oysters: Eastern, market				er err				
Eastern, market							45,710	24, 416
Native, market							377,678 19,593	284, 047
Native, seed Octopus	********				******		19, 593	1, 590
Sperm oil							260, 625	12, 163
Whale oil							1, 762, 500	94,000
Other whale products							1, 130, 000	30, 180
Total	1, 072, 131	101, 749	7, 228, 672	486, 871	215, 234	10, 167	69, 469, 805	4, 953, 913

VESSEL FISHERIES

In 1922 Washington's fisheries employed 313 fishing craft of 5 tons net and over, as measured by the United States Customs Service. This included 3 steamers, totaling 195 net tons, 307 gasoline vessels, totaling 5,159 net tons, and 3 sailing vessels, totaling 976 net tons, engaged in the fisheries of Washington, but does not include transporting vessels engaged principally in the carrying of fish. The total yield of fishing vessels was 36,013,631 pounds, valued at \$2,657,390. Lines, catching practically all of the halibut and cod and a con-

Lines, catching practically all of the halibut and cod and a considerable quantity of salmon, were the most important apparatus employed by fishing vessels, catching altogether 23,625,811 pounds

of fish, valued at \$2,190,465. Purse seines follow lines in importance, yielding 8,905,735 pounds of fish, valued at \$315,108, practically all of which were salmon. The whale fishery, located in Grays Harbor County, yielded 3,153,125 pounds of whale products, valued at \$136,343. Haul seines, gill nets, otter trawls, drag bag nets, beam trawls, hoop nets, and pots, which constitute the remainder of apparatus employed on vessels, yielded 283,960 pounds, valued at \$15,474.

The following table shows, by counties, species, and apparatus, the yield of the vessel fisheries of Washington in 1922:

Yield of the vessel fisheries of Washington in 1922, by counties, species, and apparatus

Species	Clall	lam	Grays I	Harb or	Isla	nd	Ki	ng
Purse seines:		Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod							224	
Flounders		the second second					706	
Perch Salmon—							2, 858	143
Blueback or sockeye							108, 628	11, 903
Chinook							10, 560	
Chum						\$1,246		
Humpback							2, 571	94
Silver						1, 221	759,004	29, 110
Sole							681	
Steelhead trout							84	
Total					48, 589	2, 467	2, 111, 162	71, 517
Haul seines:								Contribution
Cod							40	and opened 1
Herring							12, 745	
Perch							530	
Smelt							812	63
Total							14, 127	221
Lines:								
Cod-			-	S		×	a second	Sec. SPARE
Fresh							5, 300	. 59
Salted							409.875	56, 395
Halibut	27, 500	\$2,704			2,600	256	15, 216, 572	1, 576, 478
"Lingcod". Bool: Sabas							211, 650	4, 243
Rockfishes Sablefish							39,600	
Salmon-							1,002,100	42, 184
Chinook	311, 320	24, 906	18, 140	\$907	146,600	11, 728	164, 025	13, 115
Silver	372, 750							7, 295
Sturgeon							2,750	330
Total	711, 570	41 400	39,722	1 000	024 400	15 100	17 044 007	1 701 004
a	111, 570	41,400	39, 722	1, 626	234, 400	15, 169	17, 244, 027	1, 701, 884
Drag bag nets: Flounders								
Herring							147	3
Mackerel							58, 927 1, 360	589 95
Perch							465	
Smelt					247	20	746	
Total					247	20	61, 645	770
Hoop nets and pots: Crabs			20, 430	1, 124				
Harpoons:							Second Second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sperm oil			260, 625	12, 163		10.11	990.001	
Whale oil			1, 762, 500	94,000				
Other whale products					1-1-1-1			
Total			3, 153, 125	136, 343				
Grand total	711 570	41 400	2 912 977	120 002	002 002	17 050	10 420 001	1 774 200
	111,010	11, 100	0, 410, 411	139, 093	200, 290	17,000	19, 430, 961	1, 114, 392

Yield of the vessel fisheries of Washington in 1922, by counties, species, and apparatus—Continued

Species	Kits	ap	Mas	on	Paci	fic	Pier	се	San J	uan
Purse seines: Salmon— Blueback or sockeye Chinook Chum Humpback Silver Steelhead trout	Pounds 70, 875 15, 460 512, 193 3, 551 397, 314 56	$1,288 \\12,497 \\126 \\15,258$	65, 977	Value \$1, 658 626	163	\$605 259 1, 229 7	192, 745 31, 240 1, 188, 324	\$21, 413 2, 707 28, 090 584 73, 626		
Total	999, 449	36, 772	83, 690	2, 284	79, 011	2, 755	3, 363, 489	126, 425		
Haul seines: Cod Flounders Grayfish. Perch Sole	484 74 33 1, 089 153	2 1 54								
Total	1, 833	79								
Lines: Cod— Fresh Halibut "Lingcod" Rockfishes. Sablefish. Salmon— Chinook Silver Skates	684, 047 9, 200 1, 000 2, 000 234, 638 284, 959 734	59 70, 678 122 20 40 18, 521 11, 050 3			99, 817 117, 315	308 8, 307 4, 218	17, 600 353, 605 306, 855	237, 326 218 642 28, 255 11, 418	90, 000	\$7, 200 1, 219
Total	1, 232, 772	100, 780	347	10	220, 132	12, 833	3, 046, 510	277,859	122, 929	8, 419
Drag-bag nets: Herring Smelt	1, 116 96									•
Total	1, 212	19								
Beam trawls: Shrimp	3, 287	394								
Hoop nets and pots: Crabs					26, 980	1, 484				
Grand total	2, 238, 553	138, 044	101, 891	4,436	326, 123	17,072	6, 409, 999	404, 284	122, 929	8, 419

Yield of the vessel fisheries of Washington in 1922, by counties, species, and apparatus—Continued

Species	Skag	it	Snohor	nish	Thurs	ston	Whate	om	Tot	tal
Purse seines:	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 224	Value \$7
Cod Flounders			1,656 335						2, 362 3, 193	64 160
Perch Salmon— Blueback or sock- eye	31, 101	\$3, 435		5057-			34, 429	\$3, 801	443, 252	48, 756
Chinook Chum Humpback	4,040 211,066 676	4,996		2, 992 8, 534			5, 720 618, 779 744	452 14, 626 25	107,660 4,250,218 23,550	8, 867 102, 250 863
Sole	108, 079		310, 571	11, 723			495, 185			154, 104 20
							24	2	234	17
Total	354, 962	12, 894	710, 502	23, 316			1, 154, 881	36, 678	8, 905, 735	315, 108
Flounders Gravfish									524 74 33	18 2 1
Herring Perch Smelt Sole	4,000	40							16, 745 1, 619 812 153	168 81 65 5
	4,000								19, 960	340
Total Gill nets:	4,000									
Salmon— Chinook Chum Silver			260 8, 131 348	184					260 8, 131 348	21 184 13
Total			8, 739						8, 739	218
Lines:						- 0A1				nett
Cod— Fresh Salted	519 766, 000 135	30,000							20, 500 1, 175, 875 1, 995	368 86, 395 62
Flounders Grayfish Halibut	250 5, 677	$\frac{1}{454}$							250 18, 296, 246 233, 211	
"Lingcod" Ročkfishes Sablefish									40, 600 1, 021, 700	1,805
Salmon— Chinook Silver Skates									1, 418, 145 1, 413, 805 734	
Sturgeon									2,750	
Total	773, 342	30, 485							23, 625, 811	2, 190, 465
Otter trawls:			3, 800						3,800	133
Flounders Rockfishes Skates			59, 398 400 500	28					59, 398 400 500	1, 782 28 10
Total			64, 098	8 1, 953					64, 098	1, 953
Drag-bag nets: Flounders Herring									147 60, 043	600
Mackerel Perch Smelt					4, 615	\$369			1,360 465 5,704	23
Total					4, 615	369			67, 719	1,178
Beam trawls: Shrimp.	10, 811	1, 297			6, 822	819			38, 774	4, 652
Hoop nets and pots: Crabs	18, 620	1,024	33, 900	1, 865			29, 740	1,636	129, 670	7, 133
Harpoons: Sperm oil Whale oil									260, 625 1, 762, 500	12, 163
Other whale prod- ucts									1, 130, 000	
Total									3, 153, 125	136, 343
Grand total	1, 161, 733	5 45, 740	817, 239	27, 352	11, 437	1,188	1, 184, 621	38, 314	36, 013, 631	2, 657, 390

SHORE AND BOAT FISHERIES

Included in the statistics on shore and boat fisheries is the catch by all fishing craft of less than 5 tons net, as measured by the United States Customs Service, as well as all fish caught without the use of boats. In 1922 there were 1,158 power boats and 248 rowboats employed in the fisheries of Washington. The yield of boat and shore fisheries amounted to 33,456,174 pounds, valued at \$2,296,523, which is slightly less than the yield of the vessel fisheries.

The largest catch, 14,340,781 pounds, valued at \$957,450, was made by pound nets. The various species of salmon and steelhead trout constituted by far the greater portion of this catch, although cod, flounders, halibut, lingcod, sea bass, shad, skates, sturgeon, and octopus were also taken in small quantities.

Next to the pound nets, in value of yield, were the forks, tongs, etc., used in the clam and oyster fishery. The yield of these implements totaled 3,772,577 pounds, valued at \$428,382, of which 3,329,596 pounds, valued at \$118,329, were clams and 442,981 pounds, valued at \$310,053, were oysters, both native and eastern.

Exceeding the yield of forks, tongs, etc., in amount but not value, was the yield of the gill nets, amounting to 5,312,069 pounds, valued at \$403,334, of which the salmons and steelhead trout were the greater part. Of the other fish caught by gill nets, sturgeon, shad, and smelts were most important.

The catch by lines exceeded that by gill nets in amount but not in value, totaling 6,724,127 pounds, valued at \$382,632, most of which was salmon. Among the other fish caught by lines halibut was most important, yielding 170,985 pounds, valued at \$16,694.

The catch by haul seines amounted to 922,954 pounds, valued at \$48,997. Of this amount 208,864 pounds, valued at \$19,023, consisted of salmon and steelhead trout; 159,419 pounds, valued at \$13,574, were smelts; and 375,160 pounds, valued at \$12,054, were carp. Other species of lesser importance were also caught by haul seines.

Drag bag nets appeared in the statistics for the first time in 1922. This net may be described as a haul seine with a bag in the center, the bag being usually 40 feet long and the wings or leads from 120 to 900 feet long. One end is usually staked down, while the other is fastened to the boat, which makes a circle around and then hauls in. Sometimes each end of the net is fastened to a boat to make a haul. When used in this manner, this net greatly resembles a long-haul seine or sweep net recently developed in the North Carolina fisheries. The catch by drag bag nets in the shore and boat fisheries in 1922 amounted to 1,303,788 pounds, valued at \$19,735, most of which was smelts. The drag bag net was used in the vessel fishery also, where its products consisted largely of herring, as shown in the previous section.

Hoop nets and pots yielded 851,770 pounds of crabs, valued at \$43,176. The yield by fish wheels, reef nets, beam trawls, and wiers, none of which contributed products valued in excess of \$7,000, makes up the remainder of the catch in the shore fisheries.

The following tables show, by counties and species, the catch of each kind of apparatus used in the shore and boat fisheries.

Yield of the shore fisheries of Washington in 1922, by counties, species, and apparatus

BY HAUL SEINES

Species	Clar	ke	Islar	nd	Jeffer	son	Kin	g	Kits	ap 8
Carp	Pounds 215, 140		Pounds	Value	Pounds	Value	Pounds		Pounds 3, 285	Value \$100
Cod Flounders Herring Perch			461 67	\$14 1			1, 202 30 10, 200 4, 570	1	7,761	200 447 432
Salmon: Chum Humpback					adT.	ii -i	100		44 56 91	
Skates Smelt Sole Octopus			56,031	4, 482	1, 625	\$130		182 7 1		3, 72 85
Total	215, 140	6,454	56, 559	4, 497	1,625	130	18, 761	563	139, 518	5. 76

Species	Mas	on	Paci	fic	Pier	ce	San J	uan	Skag	zit
Cod	Pounds 72	Value \$3		Value	Pounds	Value	Pounds	Value	Pounds	Value
Cod Flounders Herring Perch	35	1 596			65 443		1,075	\$11	1,100	\$138
Salmon: Blueback or sockeye Chinook			8,960				LIOL.		54, 299 75, 920 2, 692	6,073
Humpback Silver Shad			6, 582	66				-dal	4, 385	
Skates Smelt	7,863	629			9, 734	779	********		12, 261	981
Sole Steelhead trout Sturgeon		5	4, 830 630						968	77
Total	20, 317	1, 235	29, 843	2, 652	10, 242	806	1,075	1011	151, 625	13, 544

Species	Snoho	mish	Thurs	ston	What	com	Oth		Tot	tal
Carp						200100		\$5,600	375, 160	\$12,054
Cod Dolly Varden trout	135 300	48					01011901		4,774 300	48
Flounders Herring Perch	5, 980	145 60 244	320	\$16	27, 897				13, 393 89, 850 32, 106	366 900 1,672
Salmon: Blueback or sockeye Chinook			Ľ			1.2	19, 103 2, 040		86, 920	9, 624 7, 392
Chum Humpback Silver							185		229 2,748 19,462	
Sea bass, white, or sque- teagueShad	415	33				27-1-	-Surfi	63333	415 6, 582	33
Skates Smelt						Jane	1, 1911	600	198 159, 419	3
Sole	717			1. 1.1	0.071	1 10 10 1			29, 421	884
Steelhead trout Sturgeon							030	802 44	1,260	88
Octopus Shrimp	1,030	124							182 1,030	
Total	32, 705	2, 459	5, 128	401	31, 897	779	208, 519	9, 697	922, 954	48, 997

¹ Includes Garfield, Grant, Whitman, and Asotin Counties.

Yield of the shore fisheries of Washington in 1922, by counties, species, and apparatus— Continued

BY GILL NETS

Species	Clall	am	Clar	ke	Cow	litz	Grays I	Iarbor	Kin	g
Cod	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 4, 180	Value \$14
Flounders Perch									109 478	2
Salmon: Blueback or sockeye Chinook Chum Humpback			74, 384 138, 581 7, 935	16,630	166, 407	\$19, 565 19, 968 253	$1, 350, 000 \\ 281, 510 \\ 427, 500$	14, 053	12,880	1,050
Silver Shad Smelt	21, 141	\$782	7, 949 8, 060 15, 450	81	10,692	1, 774 111	415, 952	12, 479	120, 069	1, 57
Steelhead trout Sturgeon	10, 296	824	23, 069 15, 190	1, 615 1, 064	45, 702	3, 199 1, 981	5, 624 30, 150		0101002	
Total	31, 437	1,606	290, 618	29, 573	489, 154	46, 851	2, 510, 736	154, 304	214, 081	8, 12

Species	Kits	ар	Klick	itat	Pac	ific	Pier	ce	Ska	git
Cod	Pounds 122			Value	Pounds	Value	Pounds 852	Value \$30		Value
Flounders	1111111	maril					948	28		
PerchSalmon:	1, 030	52					1, 211	63		
Blueback or sockeye	1, 610	178	6, 170 2, 985					1,977 130		
Chum Humpback	130 158			1	108, 762				32, 265	760
SilverSea bass, white, or sque-	409				36, 046	1, 258		781		
teagueShad	41	3			390					1.1.2
Smelt	001.0010	010211	352, 197				3,050	244		
Steelhead trout			2,087						2, 796	309
Octopus	80	1	4, 899	343	34, 725	2, 431	855	2		
Total	3, 580	276	16, 168	1,653	602, 168	55, 553	59, 615	3, 797	339, 047	21, 027

Species	Skam	ania	Snoho	mish	Wahkia	akum	What	com	Tot	al
Cod	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 5, 154	Value \$179
	LUCK I								1,057	
Grayfish						\$15				
Perch									2,719	139
Salmon: Blueback or sockeye Chinook Chum Humpback Silver Sea bass, white, or sque- teazue	7, 200 5, 144		20, 140	7	505, 758	60, 700 62 6			1, 746, 192 1, 737, 821 661, 925 2, 193 816, 775 41	179, 979 7, 762 78 24, 379
ShadSmelt	782	9			4, 495	46				251
Steelhead trout Sturgeon Octopus					38, 862 41, 580				132, 434	9, 481 10, 728
Total	26, 798	2, 445	54, 344	4,023	673, 302	74,064	1, 021	39	5, 312, 069	403, 334

States I. C. M. P. and States Press 4, Physics Press 5, 2210 (1996); S. S. M. S. S. W. G. 105, 52, 200 (21)

[10] S. M. S. M

Yield of the shore fisheries of Washington in 1922, by counties, species, and apparatus— Continued

BY POUND NETS

Species	Cow	litz	Grays]	Harbor	Kir	ng	Klickitat	
Cod	Pounds	Value	Pounds	Value	Pounds 15,874	Value \$556	Pounds	Value
Flounders Halibut					5, 968 191	119 17		
"Lingcod"					40	1		
Blueback or sockeye Chinook Chum Humpback	- 141,600 - 69,660		318, 520		$\begin{array}{r} 440,762\\1,258,380\\441,787\\16,752\end{array}$		4,480	
Silver Sea bass, white, or squeteague	99,205	3,472	419, 984	12,600	1,624,090 40 218	61, 809 3 22	8, 131	285
ShadSkates					2,000	1 961	14 500	1 021
Steelhead trout Sturgeon Octopus	- 60		0 000			1,861 53 11	980	
Total	332, 351	23, 160	1, 068, 841	32, 133	3, 836, 238	224, 882	41, 621	2, 999

Species	Paci	fic	San J	uan	Skag	it	Skam	ania
Salmon: Blueback or sockeye. Chinook. Chum. Humpback. Silver. Shad. Steelhead trout. Sturgeon. Octopus.	Pounds 170, 942 591, 204 12, 760 346, 434 7, 827 186, 741 45, 709	70, 945 127 12, 126 79 13, 072	76, 342 172, 540 3, 314 22, 650 159, 810 424	\$8,232 13,803 110 854 6,157	337, 480 70, 229 1, 312 602, 501	\$2,267 26,999 1,662 47 22,530	10, 280	\$1,233
Total	1, 361, 617	121, 822	435, 080	29, 190	1, 036, 704	53, 802	16, 076	1, 588

Species	Wahki	akum	What	com	Tota	al
Cod			Pounds		Pounds 15,874	Value \$556
Cod Flounders Halibut "Lingeod"					5, 968 191 40	119 17 1
Salmon: Blueback or sockeye Chinook Chum Humpback	3, 566 127, 880 29, 650		1, 831, 060 443, 096	146, 485	2, 787, 592 4, 793, 424 1, 397, 005 116, 145	409, 036 26, 937
Silver Sea bass, white, or squeteague	144,840	5,069			4, 793, 732	176, 896
ShadSkates	432	4				410 7
Steelhead troutSturgeonOctopus	53, 771 36, 890	3,763 2,683	12,684	1,015	319, 362 93, 289	6,618
Total	397, 029	27, 625	5, 815, 224	440, 249	14, 340, 781	957, 450

BY HOOP NETS AND POTS	BY	HOOP	NETS	AND	POTS
-----------------------	----	------	------	-----	------

Species	C	lallam	Gray	s Harbo	r Is	land	K	ing	Kit	sap
Crabs	Pour 39, 2		92 Poun 92 91, 04	ds Valu 13 \$5,00				Valu \$2, 208	e Pound: 8 80	
Species	Pa	cific	Ska	agit	Snohe	omish	What	com	Tot	al
Crabs	Pounds 226, 500	Value \$12, 459	Pounds 230, 460						Pounds 851, 770	

Yield of the shore fisheries of Washington in 1922, by counties, species, and apparatus— Continued

BY LINES

Species	Clall	lam	Grays I	Harbor	Isla	nd	Jeffer	son
Cod Halibut ''Lingcod'' Salmon:	Pounds 3, 370 72, 676 147	Value \$118 7, 132 3	Pounds	Value	Pounds 354 23,000	Value \$12 2, 261	Pounds	Value
Chinook Silver Octopus	1, 051, 035 920, 361 11, 997	83, 931 34, 841 30	30, 580 60, 234	\$1, 529 1, 807	788, 740 648, 161	63, 113 23, 601	27, 420 25, 726	\$2, 192 954
Total	2, 059, 586	126, 055	90, 814	3, 336	1, 460, 255	88, 987	53, 146	3, 14

Species	Kir	ng	Kit	sap	Klick	tiat	Mas	son	Paci	fic
Cod Flounders Grayfish	Pounds 111 365 1,500	Value \$2 7 4	Pounds 9,901 371	Value \$345 15	Pounds	Value	Pounds 130	Value \$4	Pounds	Value
Halibut Perch Rockfishes	- 30 - 35	42	32, 000 45	3, 146 2			120	4		
Salmon: Chinook Silver Skates	194, 130 1, 028, 468	15, 529 39, 053	53, 680 161, 045 740	4, 295 6, 125 2			40		71, 200 282, 467	\$8, 542 9, 898
Steelhead trout Sturgeon Octopus			110	1	2, 275	\$159			848 140	60 10
Total	1, 224, 639	54, 601	257, 892	13, 931	2, 275	159	290	9	354, 655	18, 510

Species	Pier	ce	San J	uan	Ska	git	Skam	ania
Cod Grayfish	Pounds 1, 163 210	Value \$41 1	Pounds 5, 844	Value \$205	Pounds 850	Value \$30	Pounds	Value
Halibut. ''Lingcod''	39, 500	3, 848	$3,409 \\ 773$	273 15	370 1,848	30 37		
Rockfishes Salmon:	2, 110	106	8, 496	408				
Chinook Silver Sea bass, white, or squeteague	601, 450 490, 620	48, 113 18, 143	28,230 100	$1,075 \\ 8$	4, 184	159		
Sturgeon Octopus	600	2	594		2, 533	12	2, 275	\$159
	000		094	1	2, 000	12		
Total	1, 135, 653	70, 254	47, 486	1, 988	9, 785	2 68	2, 275	159

Species	Snohomish		Wahka	Wahkaikum		m Whatcom Other counties 1		Tot	al	
Cod	000.01						Pounds		Pounds 21, 723	Value \$757
Flounders Grayfish Halibut ''Lingcod''		87							736 1,710 170,985 2,768	22 5 16, 694 55
Perch Rockfishes Salmon:		5178		119		 			80 10, 726	518
Chinook Silver Sea bass, white, or sque-	540 17, 304	658			117	\$9			2, 818, 932 3, 666, 800	227, 299 136, 314
teagueSkates									100 780	83
Steelhead trout Sturgeon Octopus			700	\$49	4		6,715	\$470	848 12, 105 15, 834	60 847 46
Total	17, 844	701	700	49	117	9	6,715	470	6, 724, 127	382, 632

¹ Includes Okanogan, Walla Walla, and Asotin Counties.

Yield of the shore fisheries of Washington in 1922, by counties, species, and apparatus— Continued

BY DRAG BAG NETS

Species	Co	wlit	tz		1	Islan	nd	Kin	ng	Kits	ар
	Pound		Val	lue	Pour	nds	Value	Pounds	Value	Pounds 168	Value \$5
Cod Flounders Herring Perch Salmon:					0.0001			4, 685	\$234	108 81 19, 700 6, 060	197 303
Chinook Silver		460 261		\$54 9						15	
Smelt Sole Steelhead trout	1, 137, 4	152 56	11, 5	376 	11, 4		\$918			16, 141 64, 321	1, 291 1, 932
Total	1, 138, 2	1, 138, 229 11,		9 11, 443 11, 476		176	918	4, 685	234	106, 486	3, 732
Species		Mason		2	Ska	git	the second	Snohor	nish	Thurs	ton
Smelt	Pounds 4, 783		<i>lue</i> 383		unds 068		ulue 066	ounds 404	Value \$52	Pounds 22, 225	Value \$1, 77
Species			Wah	kia	kum		W	hatcom		Total	
Cod Flounders. Herring. Perch							Pound	ls Vali	ue 1	Pounds 168 81 19, 700 10, 745	Value \$1 197 533
Salmon: Chinook. SilverStates										460 261 15	5
Smelt Sole	Skates		1, 10	00	\$1	1	1, 3	32 \$1	18 1,	207, 981 64, 321 56	16, 99 1, 93
Total			1, 10	00	1	1	1, 3	32 1	18 1,	303, 788	19, 73

BY FISH WHEELS

Species	Paci	fic	Klick	itat	Total		
Salmon: Blueback or sockeye Chinook	Pounds 40, 334 6, 020	Value \$5, 243 822	Pounds	Value	Pounds 40, 334 6, 020	Value \$5, 243 822	
SilverShadSteelhead troutSturgeon	4, 193 1, 491 840	42 104 59	6, 090 4, 000	\$213 	6, 090 4, 193 5, 491 840	213 42 384 59	
Total	52, 878	6, 270	10, 090	493	62, 968	6, 763	

BY BEAM TRAWLS

Species	Jefferson		King		Kitsap		Pierce		Total	
Sole Shrimp	Pounds 460	Value \$14		Value \$795			Pounds 9, 350 3, 712	Value \$281 445	Pounds 36, 310 22, 196	
Total	460	14	26, 500	795	18, 484	2, 218	13, 062	726	58, 506	3, 753

Yield of the shore fisheries of Washington in 1922, by counties, species, and apparatus— Continued

Half in points	3197/	egal.	В	Y REL	EFI	NETS	3,45	un 1	er fla	Dur	8.1	ento	initia :
Species	esiter		San Ju	an	15	-	9.73	Specie	s	gin	100	San Ju	an
Salmon: Blueback or sockeye. Chinook Chum		4	unds , 767 160 , 300	Value \$527 13 54	S	Silve	er		d.			ounds 47 25, 360 32, 634	Value \$2 965 1, 561
And The Andrew P	Correct I	<u>2005</u>	<u></u>	BY	VEI	RS		landa.			<u>Lan</u>		
Bargeler State of the state of			Speci	es		101.34	1	10				Whatco	m
Herring												ounds 74,000	Value \$740
en alter der der ner Leisen Richt St. Ner Michtel Thermannen and			BY	FOR	KS,	TONO	łs,	ETC.				A L AD A L AD	
Species			Clall	am	0	Jrays I	Iark	oor	Isla	nd		Jeffers	on
Clams: Hard Razor		6	ounds 8, 230	Value \$1, 023		ounds 307, 884		7alue 71, 296	Pounds 6, 020	\$91	2	ounds 46, 015 79, 877	Value \$3, 691 2, 996
Total		6	8, 230	1, 023	1,8	807, 884	71	1, 296	6, 020	91	3	25, 892	6, 687
Species	Kin	g	1	Kitsap		N	Iaso	n	1	Pacific		Pie	rce
Clams: Hard Razor. Oysters: Native, market Native, seed	Pounds 29, 850	\$896		516 \$4,			6 \$	Value 52, 239 1, 432	Poun 748, 5 70, 0	90 \$32	<i>Talue</i> 2,613),000	Pounds 1,009	\$15
Total	29, 850	896	312,	516 4,	820	94, 77	3	53, 671	818, 5	90 82	2, 613	1,009	15
Species			San	Juan		Skagi	t		Thurst	n	1	Tota	al
Clams: Hard Razor. Oysters: Native, market Native, seed. Eastern, market				\$319	1,	unds V ,000	\$30	17, 231, 1,	955 392 18 106	Value \$539 81, 808 158 24, 416	2,6 3	ounds 93, 245 36, 351 77, 678 19, 593 45, 710	Value \$11, 424 106, 905 284, 047 1, 590 24, 416
Total			10,650	319	1,	,000	30	296,	163 20	6, 921	3,7	72, 577	428, 381

CANNING INDUSTRY

In 1920 there were 55 canneries in Washington, valued at \$3,378,579, carrying cash capital of \$354,600, employing 2,000 persons, and paying \$809,997 in wages. Their total products were valued at \$5,524,433. Salmon was by far the most important fish canned, the total production being 441,667 cases, valued at \$4,823,174. Puget Sound was the most important district, producing \$2,306,447 worth of products. The Columbia River was a close second, with a production amounting to \$2,035,335, and the value of canned salmon on the Washington coast amounted to only \$481,392. Next in importance to salmon was the production of canned razor clams, totaling

Other counties along the Columbia River produced 5,070,410 pounds of fishery products, valued at \$384,130. Practically all of this production consisted of salmon and steelhead trout, with a small quantity of sturgeon. Multnomah County, in which the city of Portland is located, was foremost in production. In addition to the salmons, steelhead trout, and sturgeon, which constituted the bulk of her fishery production, her fishermen caught halibut, "lingcod," rockfishes, sablefish, other fish, and shellfish.

The coastal counties, exclusive of Clatsop County, produced 7,558,783 pounds, valued at \$348,356. As in the other sections of Oregon, the salmon and steelhead trout yielded the bulk of fishery products. Tillamook County showed the greatest production, followed in order by Lincoln, Douglas, Coos, Curry, and Lane Counties. Lincoln County produced the greatest variety of fishes, included in her catch being halibut, "lingcod," rockfishes, sablefish, smelt, and sole, as well as the predominant salmons. Her shell fisheries were also of some importance, yielding 241,942 pounds, valued at \$19,298, and consisted of soft clams, oysters, crawfish, and crabs. In the production of the last named, Lincoln County was first in the State. The interior counties of Oregon produced 232,325 pounds, valued at \$16,774, consisting largely of salmon and fresh-water crawfish.

The following table gives in detail the statistics of the fisheries of Oregon in 1922:

Items	Clacks	amas	Clat	tsop	Colun	nbia	Co	os
PERSONS ENGAGED On vessels transporting In shore fisheries Shoresmen	Number 21	Value	Number 45 2, 356 947	Value	Number 1 301 54	Value	Number 121 43	Value
Total	21		3, 348	oallas	356	cist state	164	
INVESTMENT Vessels, transporting, gaso- line	14 2 3,500 70	\$5, 150 50 2, 625 105 75	330 1 1 130 	\$190, 595 25, 566 496, 200 51, 465 21, 000 360, 905 26, 400 960 3, 500 2 195 8, 500 410 2, 017, 981 79, 600	1 10 208 28 9 3,150 235 60,740 9 	\$3, 500 276 66, 150 1, 260 4, 438 45, 752 6, 950 75, 600 4, 500	55 28 3 800 140 12,040 28 	\$15,500 1,475 1,300 16,200
Total		8,005		3, 283, 279	000-0-0 (1)	208, 549		73, 799

Persons engaged, investment, and products of the fisheries of Oregon in 1922, by counties

Persons engaged, investment, and products of the fisheries of Oregon in 1922, by counties-Continued

Items	Clacks	amas	Clat	sop	Colur	nbia	Coos		
PRODUCTS Salmon: Blueback or sockeye Chimook Silver Silver Shad Smelt Steelhead trout Sturgeon Clams: Razor.	Pounds 6, 360 112, 427 30, 758 1, 787 11, 166 1, 550	Value \$763 6, 745 923 64 605 93	Pounds 258,035 6,767,441 35,977 1,131,065 284,894 2,350 689,748 97,860 163,110	Value \$30,994 357,273 379 45,255 2,910 24 48,221 5,878 7,290	Pounds 159,674 1,239,069 25,030 42,366 145,331 161,098 33,941	Value \$19, 160 81, 806 250 1, 310 3, 614 9, 725 2, 064	Pounds 367, 809 300 342, 327 17, 474 103, 434 380	Value \$28, 954 6, 922 647 10, 343	
Soft Crabs Crawfish	1, 500	200	70, 496 8, 670	7, 49 1, 156	11, 100	1,480	28, 966 48, 960 500	2,897 1,633 50	
Total	165, 548	9, 393	9, 510, 246	506, 429	1, 817, 609	119,409	910, 150	51, 46	

Items	Cu	urry	Dou	glas	Hood	River	Josep	hine
PERSONS ENGAGED In shore fisheries	Number 148 34	Value	Number 189 22	Value	Number 7	Value		W Value
Total	182		211	********	7		32	
INVESTMENT		6 . 6	1.P	11	CO.C. C.			1
Power boats Rowboats and scows Apparatus, shore fisheries:		\$10, 350 250	92 34	\$25, 450 1, 895	$1 \\ 5$	\$200 200	13	\$840
Gill nets Length in yards Pound nets	21, 395		**********	27,910	$\begin{smallmatrix}&14\\&480\\&1\end{smallmatrix}$	240 500		1, 560
Hoop nets. Pots and traps. Lines. Shore and accessory property Cash capital		106, 050	325	1,950 415 77,265				22,00
Total		153, 294		144, 735		1,140		26, 40
FRODUCTS Salmon; Blueback or sockeye Chinook Chum Silver Shad Steelhead trout	697, 257 686	e 21	Pounds 12 291, 184 10, 099 942, 551 85, 536 86, 694	Value \$2 23, 044 152 23, 334 3, 165 9, 536	Pounds 5,844 27,432 5,000 1,105	Value \$733 3, 092 50 38	Pounds 44, 019	\$4, 40
Sturgeon.		8		9, 536	1, 155			
Total		35, 487		69, 196	42, 296	4, 117	44, 019	4, 40

Persons engaged, investment, and products of the fisheries of Oregon in 1922, by counties-Continued

Items	La	ne	Linc	oln	Multn	omah	Tillam	ook
PERSONS ENGAGED	Number	Value	Number 4	Value	Number 16	Value	Number	Value
On vessels transporting In shore fisheries Shoresmen	78 9		166 41		$\begin{array}{c}2\\252\\165\end{array}$		275 41	
Total	87		211		435		316	
INVESTMENT	1. T. T.	122.7			10 . 101.0	See - mar		Cendbys
Tonnage			$1 \\ 10$	\$8,000	3 38	\$10,000		
Vessels, transporting, gaso- line Tonnage					1 10	2,000		
Outfit Power boats Rowboats and scows	47 3	\$7,050 130	39 115	7, 200 3, 515	121 47	975 40, 550 2, 350	99 103	\$28, 300 2, 41
Apparatus, vessel fisheries: Lines Apparatus, shore fisheries:				450		900	enosti	
Haul seines Length in yards Gill nets	$ \begin{array}{r} 1 \\ 300 \\ 109 \end{array} $	500 15,060	$\begin{array}{c}1\\150\\213\end{array}$	250 15, 054	7 4,500 133	7, 600 29, 667	474	40, 900
Length in yards Pound nets Hoop nets	30		20, 545 575	858	14, 355 14 15	47, 600 45	56, 160 280	1, 12
Wheels Dip nets		180		40	18 12 305	46, 700 49 458		19
Pots and traps Lines Tongs, hoes, etc	30	180 100 2	40 25	40 70 241	305	458 760	***	19. 84 14
Shore and accessory prop- erty		$10,500 \\ 800$		41, 441 7, 500		366, 700 21, 700		100, 45 15, 40
Total		34, 412		87, 619		585, 554		188, 87
PRODUCTS	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Halibut "Lingcod" Rockfishes Sablefish			$164, 433 \\17, 536 \\146 \\30, 687$	\$13, 155 351 3 1, 227	74, 662 3, 662 2, 124 26, 421	\$7,412 162 85 1,301		
Salmon: Blueback or sockeye Chinook Chum.	65, 517 5, 890	\$3, 299 117	25 499, 292 15, 725	21,442 158	336, 251 1, 049, 642 9, 103	41, 279 83, 753 91	1,035,005 21,178	\$54, 39
Silver Shad Smelt	299, 733 3, 218	5, 894 121	784, 818 10	18, 195 1	$\begin{array}{r} 104,125\\ 38,753\\ 215,000 \end{array}$	3, 098 770 2, 150	551, 166 1, 000	15, 27: 40
Sole Steelhead trout Sturgeon Other fish	35, 721 936	4,280 18	97, 722 304	7,607 12	240, 658 62, 423 5, 343	14,049 3,991 267	155, 071 3, 739	15, 50 15
Clams: Soft Oysters: Native, market—	1,000	100	13, 734	1, 371	198.007		39, 100	3, 91
Private Public			50, 001 24, 997	5,000 2,500				
Crabs Crawfish	12,960	432	152, 460 750	10, 327 100	3, 806 24, 857	200 3, 314	145, 780	7, 023
Total	424, 975	14, 261	1, 852, 665	81,452	2, 196, 830	161, 922	1, 952, 039	96, 50

Persons engaged, investment, and products of the fisheries of Oregon in 1922, by counties-Continued

Items	Wa	sco	Wash	ington	Yan	hill	To	tal
PERSONS ENGAGED	Number	Value	Number	Value	Number	1.1.1.	Number	Value
On vessels fishing On vessels transporting						2	20 48	
In shore fisheries Shoresmen	53 68		3		3	·····	3, 999 1, 430	
Total	121		3		3		5, 497	
INVESTMENT	a punchian	166,82	Cherry 1	Ortgos	To Baker	Sec.	Wasseries	in Steach
Vessels, fishing, gasoline Tonnage Outfit Vessels, transporting, gasoline Tonnage							4 48	\$18,00
Vessels, transporting, gasoline Tonnage Outfit							28 268	196, 09
Power boats	1	\$1,000	3	\$375			1,718	703, 47
Rowboats and scows Apparatus, vessel fisheries: Lines	5	230	3	150	3	\$75	501	66, 30. 1, 35
Apparatus, shore fisheries: Haul seines. Length in yards.	2 330	900					44 20, 780	35, 98
Gill nets Length in yards Pound nets	1 100	40			3 330	247	20, 780 2, 847 699, 520 45	587, 80
Hoop nets							1,608	4, 19
Wheels Dip nets	10	16,000 88					29 50	66, 20 14
Pots and traps			450	675	20	30	1, 534	4,05
Tongs, hoes, etc.				21001012			84	68
Lines. Tongs, hoes, etc. Shore and accessory property. Cash capital		71, 968 5, 000						2, 922, 27 157, 00
Total		95, 241	31-23-55	1, 315		352		4, 892, 57
PRODUCTS Halibut	Pounds		Pounds				Pounds	Value
Halibut "Lingcod"							239, 095 21, 198	\$20, 56' 51
Rockfishes		1					2, 270	8
Sablefish Salmon:	117.5 1 1 1 1 2 4 1 1		1.1.1.1.1.1.1				57, 108	2, 52
Blueback or sockeye Chinook Chum	454,038	\$22,047 54,484	ki han Provo	7116-134 77777757	 	 	935, 789 12, 650, 132 128, 385	114, 98 757, 54 1, 41
Silver Shad	147,022	5, 145			600	\$18	4, 378, 922 578, 003	125, 42 11, 33
Smelt				Sharada da			217, 350	2, 17
Sole Steelhead trout	231.018	16, 171	GRC1200	MIN	600	36	25 1, 820, 734	136, 80
Sturgeon Other fish			······				216, 765 5, 343	13, 25 26
Clams: RazorSoft		5000	0.1100	181-53 1911-1			163, 110 82, 800	7, 29 8, 27
Oysters: Native, market— Private. Public.	01.820	<u>ot 10</u>	211.80.	n .d	110.3m		50,001 24,997	5, 000 2, 500
Crabs Crawfish			20,808	\$2,776	750	150	730, 802 68, 935	36,499
				11 11	7170000			
Total	1,013,675	98,682	20,808	2,776	1,950	204	22, 371, 764	1, 255, 68

VESSEL FISHERIES

In the vessel fishery of Oregon in 1922 only four vessels were actually engaged in fishing. Their catch, made up entirely of ocean fish caught by lines, amounted to 325,039 pounds, valued at \$23,964, of which 239,095 pounds, valued at \$20,567, were halibut. The remainder of the catch was made up of sablefish, "lingcod," and other fishes incidentally caught in the halibut fishery.

The following table gives the detailed statistics of the vessel fishery of Oregon in 1922.

Yield of the vessel fisheries of Oregon in 1922, by counties, species, and apparatus

Apparatus and species	Line	coln	Multn	omah	Tot	al	
Lines: Halibut "Lingcod" Rockfishes. Sablefish Soles. Other fish.	Pounds 164, 433 17, 536 146 30, 687 25	Value \$13, 155 351 3 1, 227 1	Pounds 74, 662 3, 662 2, 124 26, 421 5, 343	Value \$7,412 162 85 1,301 267	Pounds 239, 095 21, 198 2, 270 57, 108 25 5, 343	Value \$20, 567 513 88 2, 528 1 267	
Total	212, 827	14, 737	112, 212	9, 227	325, 039	23, 964	

SHORE AND BOAT FISHERIES

The shore and boat fisheries of Oregon in 1922 greatly exceeded the vessel fishery in importance, employing 1,718 power boats under five tons net and 501 rowboats and sailboats, manned by 3,999 fishermen and yielding 22,046,725 pounds, valued at \$1,231,725.

Gill nets yielded 14,437,131 pounds, valued at \$612,561, which was over half of the State's entire production. Haul seines produced 3,912,443 pounds, valued at \$360,673; fish wheels, 1,242,303 pounds, valued at \$125,592; pound nets, 471,335 pounds, valued at \$31,416; and lines, 529,514 pounds, valued at \$24,426. All of this gear was used principally in the salmon fisheries, and although a limited amount of sturgeon and shad also were caught the great bulk of the catch was in all cases salmon and steelhead trout. A small catch of silver salmon, steelhead trout, and smelts was made by dip nets, the entire amount being 333,354 pounds, valued at \$8,264.

Crabs and crawfish were taken by hoop nets, traps, and pots, the entire catch amounting to 799,737 pounds, valued at \$45,725; clams and oysters were taken by means of tongs, forks, etc., the entire catch amounting to 320,908 pounds, valued at \$23,068.

The following tables show, by gear, the yield of the shore and boat fisheries of Oregon in 1922.

Yield in the shore fisheries of Oregon in 1922, by counties, species, and apparatus

BY HAUL SEINES

Species	Clat	Clatsop		Columbia		008	Lane	
Salmon: Blueback or sockeye Chinook Silver	Pounds 145, 708 1, 890, 832 165, 891	Value \$17, 538 226, 900 6, 636	Pounds 26, 105 109, 007 82	Value \$3, 132 12, 126 3	Pounds 212,470 51,180	Value \$16, 997 1, 023	Pounds 1, 523 5, 947	Value \$76 119
ShadSteelhead trout Sturgeon	254,378500,3514,784	2, 544 35, 023 287	57, 202 54, 149 3, 267	3, 778 227			936	iŝ
Total	2, 961, 944	288, 928	249, 812	19,838	263, 650	18,020	8,406	213

Species	Line	Lincoln		omah	Wa	sco	Total		
Salmon: Blueback or sockeye Chinook Silver Shad	Pounds 2,000	Value \$60	Pounds 149 105, 735 22, 490	Value \$19 8, 540 718	Pounds 12, 520 104, 520 57, 560	Value \$1, 628 12, 542 2, 014	Pounds 184, 482 2, 424, 087 305, 150 311, 580	Value \$22, 317 277, 181 10, 573 3, 116	
Steelhead trout Sturgeon	500	25	55, 964 301	$\substack{3,425\\21}$	66, 892	4, 682	677, 856 9, 288	46, 933	
Total	2, 500	85	184, 639	12, 723	241, 492	20, 866	3, 912, 443	360, 673	

Species	Clack	amas	(Clats	sop		Colum	nbia	Co	DOS	Cu	rry
Salmon: Blueback or sockeye Chinook Silver Shad Steelhead trout Sturgeon Total	1,787 11,166 1,550	\$763 6, 745 783 64 605 93	984,720315081912490	, 410 , 262 , 249 , 399 , 652 , 054 , 326	20, 3 8, 6 5, 4	786 311 1 332 333 256 325 426	130, 899 , 119, 863 22, 325 36, 556 88, 129 98, 307 30, 485	\$15, 70 68, 81 22 1, 09 3, 04 5, 43 1, 82	$\begin{array}{c} 7\\5\\5\\2\\279,262\\2\\17,474\\1\\103,434\\6\\380\end{array}$	\$11, 80 5, 66 64 10, 34	7	\$34, 863 21 603
Species	100.7	Douglas	3	Ho	od R	ive	r Jose	phine		ane	Line	coln
Salmon: Blueback or sockeye Chinook Chum Silver Shad Steelhead trout Sturgeon	10 931	$ \begin{array}{c} 12 \\ , 434 \\ , 099 \\ , 190 \\ 23 \end{array} $	alue \$2 2, 824 152 3, 279 3, 165 9, 536 125	4, 19, 5, 1,	nds 264 450 000 105 876 865	\$5. 2, 3	54 34 44, 0 50 38	19 \$4, 4	01 63, 99 5, 89 257, 75	04 \$3, 22 00 11 59 5, 05 18 12	3 499, 29 7 15, 72 5 781, 80	5 % 2 21, 44 5 158 4 18, 103 0 2 7, 58
Total	1, 404	, 446 59	9, 083	31,	560	3, 0	98 44, 0	19 4, 4	01 366, 58	82 12, 79	3 1, 394, 38	2 47, 30
Species	Multr	omah	1	Filla	mook	ç.	Was	sco	Yaml	hill	Tota	1
Salmon: Blueback or sockeye Chinook. Chum Silver. Shad Steelhead trout Sturgeon.	631, 967 1, 728 11, 761 19, 510	\$13, 863 50, 690 18 284 478 3, 979	$5 \\ 1, 03 \\ 2 \\ 4 \\ 55 \\ 3 \\ 9 \\ 15$	1, 17 0, 47 1, 00	1 \$54 8 15, 9 15, 15,	,385 212 255 40	2, 647 2, 830	\$344 339	600		Pounds 354, 789 9, 388, 129 113, 494 3, 385, 703 236, 316 782, 855 175, 845	393, 481 1, 263 89, 927 7, 814 66, 450

BY GILL NETS

72, 213 1, 765, 028 85, 409

5, 586

691

1,200

887, 767

Total___

309

54 14, 437, 131 612, 561

Yield in the shore fisheries of Oregon in 1922, by counties, species, and apparatus—Continued

Species	Clat	sop	Colum	nbia	Hood	River	Multr	omah	Tot	al
Salmon: Blueback or sockeye Chinook Chum Silver Shad Steelhead trout Sturgeon.	Pounds 1, 608 93, 929 4, 728 99, 728 8, 487 61, 953 1, 508	Value \$193 11, 272 47 3, 982 86 4, 336 90	Pounds 2, 670 10, 199 2, 705 5, 728 8, 642 189	Value \$321 865 27 215 516 11	Pounds 1, 580 7, 982 	Value \$179 758 62 20	Pounds 12, 624 61, 943 4, 088 37, 938 3, 303 37, 422 1, 207	$\begin{matrix} \textit{Value} \\ \$1, 515 \\ 3, 717 \\ 40 \\ 1, 138 \\ 83 \\ 1, 871 \\ 72 \end{matrix}$	Pounds 18, 482 174, 053 11, 521 143, 394 11, 790 108, 901 3, 194	Value \$2, 208 16, 612 114 5, 335 169 6, 785 193
Total	271, 941	20, 006	30, 133	1,955	10, 736	1,019	158, 525	8, 436	471, 335	31, 416

BY POUND NETS

BY WHEELS

Species	Clatsop		Multn	omah	Wa	sco	Total	
Salmon: Blueback or sockeye Chinook Chum	Pounds 12, 309 9, 426	Value \$1, 477 1, 131	Pounds 211, 306 247, 396 3, 287	Value \$25, 880 20, 641 33	Pounds 154, 421 346, 688	Value \$20, 075 41, 603	Pounds 378, 036 603, 510 3, 287	Value \$47, 432 63, 375 33
Silver	2,377 3,271 1,242	$\begin{array}{r}24\\229\\75\end{array}$	$3,112 \\ 15,940 \\ 82,358 \\ 8,009$	93 209 4,774 548	30, 880 105, 889 4, 392	1,081 7,412 307	33, 992 18, 317 191, 518 13, 643	$1, 174 \\ 233 \\ 12, 415 \\ 930$
Total	28, 625	2,936	571, 408	52, 178	642, 270	70, 478	1, 242, 303	125, 592

BY DIP NETS

Species	Clatsop		Multnomah		Was	sco	Total	
Salmon: Silver	Pounds	Value	Pounds	Value	Pounds 58,004	Value \$2,030	Pounds 58,004	Value \$2,030
Smelt Steelhead trout	2,350	\$24	215,000	\$2,150	58,000	4,060	217, 350 58, 000	2, 174 4, 060
Total	2,350	24	215, 000	2, 150	116,004	6, 090	333, 354	8, 264

BY LINES

Species	Clack	amas	Cla	Clatsop		Coos		Douglas		Lane	
Salmon: Chinook	Pounds	Value	Pounds 52, 992						e Pounds	Value	
Chum		\$140	357, 647 119		4 11,88	5 23	8 11, 36			\$720	
Total	4, 653	140	410, 758	20, 67	1 13, 81	1 39	2 14, 18	1 277	36, 027	720	
Species	Line	oln	Multn	omah	Tillan	nook	Was	co	Tota	1	
Salmon: Chinook Chum	Pounds	Value	Pounds 2, 601	Value \$159	Pounds 84	Value \$5	Pounds	Value \$1	Pounds 60, 353 83	Value \$6, 897	
Silver Steelhead trout Sturgeon		\$30	28, 824	865	690 1, 357	$\begin{array}{c}17\\136\end{array}$	578 128 7, 534			16, 389 153 986	
Total	1,014	30	38, 616	1, 481	2, 131	158	8, 323	557		24, 426	

Yield in the shore fisheries of Oregon in 1922, by counties, species, and apparatus-Continued

Species	Clack	amas	Clats	sop	Colun	nbia	Coos	
Crabs	Pounds	Value	Pounds 70, 496	Value \$7, 049	Pounds	Value	Pounds 48, 960	Value \$1, 632
Crawfish	- 1, 500	\$200	8, 670	1, 156	11, 100	\$1, 480	500	50
Total	- 1, 500	200	79, 166	8, 205	11, 100	1, 480	49, 460	1, 682
Species	Dou	glas	La	ne	Linc	eoln	Multne	omah
Crabs Crawfish	Pounds 296, 340	Value \$9, 836	Pounds 12, 960	Value \$432	Pounds 152, 460 750	Value \$10, 327 100	Pounds 3, 806 24, 857	Value \$200 3, 314
Total	- 296, 340	9, 836	12, 960	432	153, 210	10, 427	28, 663	3, 514
Species	Tillan	nook	Washi	ngton	Yam	hill	Tot	al
Crabs	Pounds 145, 780	Value \$7, 023	Pounds	Value	Pounds	Value	Pounds 730, 802	Value \$36, 499
Crawfish			20, 808	\$2,776	750	\$150	68, 935	9, 226
Total	_ 145, 780	7,023	20, 808	2, 776	750	150	799, 737	45, 728

BY HOOP NETS, TRAPS, AND POTS

BY TONGS, FORKS, ETC.

Species	Clat	sop	Co	os	Lai	ne	Line	oln	Tillan	nook	Tot	al
Clams: Razor	Pounds 163, 110			Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 163, 110	
Soft Oysters, native,				\$2, 897	1,000	\$100	13, 734	\$1, 371	39, 100	\$3, 910		
market: Private Public							50, 001 24, 997				50, 001 24, 997	
Total	163, 110	7, 290	28, 966	2, 897	1,000	100	88, 732	8, 871	39, 100	3, 910	320, 908	23, 068

CANNING INDUSTRY

In 1922 there were 29 canneries in Oregon valued at \$1,563,337, with cash capital of \$109,900, employing 897 persons and paying \$569,994 in wages. Canned products produced were valued at \$3,761,015, consisting largely of salmon, amounting to \$3,696,680 in value, most of which was produced in the Columbia River district. A limited amount of canned shad and shad roe was also produced in the Columbia River district, while the pack of razor clams, valued at \$54,074, was produced on the coast. The following table gives in detail the statistics of the canning industry in Oregon in 1922, by districts:

Items	Colum	bia River	Orego	n coast	Т	otal
Establishments Cash capital Persons engaged Wages paid	Number 16 674	Value \$1, 100, 396 70, 400 432, 229	Number 13 223	Value \$462, 941 39, 500	Number 29 897	Value \$1, 563, 337 109, 900 569, 994
PRODUCTS			and a		- terrented	
Salmon: Blueback or sockeye— 1-pound tall U_2-pound flat Chinook— 2-pound tall 1-pound tall 1-pound flat	Cases 315 12, 972 74 5, 987 46, 256	Value \$4,473 231,755 740 43,895 581,709	Cases	Value \$413 91, 826	Cases 315 12, 972 74 6, 038 54, 949	Value \$4, 473 231, 755 740 44, 308 673, 535
1-pound oval 12-pound flat 12-pound oval Chum— 1-pound tall	3, 138 91, 794 76 1, 609	59, 953 1, 538, 872 1, 885 6, 475	16, 414 13, 699 2, 248	147, 726 234, 180 9, 442	19, 552 105, 493 76 3, 857	207, 679 1, 773, 052 1, 885 15, 917
1-pound flat	636	3, 816	243 279	850 1, 339	243 915	850 5, 155
Silver or coho— I-pound tall 1-pound flat ½-pound flat Steelhead—	8, 103 22, 263 18, 956	46, 806 160, 347 161, 045	2, 608 8, 199 9, 006	14, 665 45, 906 84, 166	10, 711 30, 462 27, 962	61, 471 206, 253 245, 211
I-pound tall. 1-pound flat. ½-pound flat.	15 6, 675 11, 944	$\substack{b \\ 61,783 \\ 162,457}^{156}$			15 6, 675 11, 944	156 61, 783 162, 457
Total	230, 813	3, 066, 167	61, 440	630, 513	292, 253	3, 696, 680
Shad: 1-pound tall 2-pound flat	1,064 118 87	3, 661 474 3, 480			1, 064 118 87	3, 661 474 3, 480
Total	1,269	7, 615			1, 269	7, 615
Shad roe: 1-pound oval ½-pound flat	150 6	2, 472 174		3860 	150 6	2, 472 174
Total	156	2, 646			. 156	2, 646
Razor clams, whole: No. 1 (4 dozen)			300 1, 907	5, 500 1, 950 11, 349 29, 576	500 300 1,907 3,971	5, 500 1, 950 11, 349 29, 576
No. 2 (2 dozen)		1.1.1.19 <i>1</i> 0	3, 971	5, 699	. 909	5, 699
Total			7, 587	54, 074	7, 587	54, 074
Grand total	232, 238	3, 076, 428	69, 027	684, 587	301, 265	3, 761, 015

Canning industry of Oregon in 1922, by districts

Note.—All products except clams have been converted to the equivalent of forty-eight 1-pound cans to the case.

WHOLESALE FISH TRADE

The wholesale fish trade of Oregon was conducted by 28 firms, 7 of them located in Portland and the remainder in the various smaller towns of the State. These firms had a total investment amounting to \$267,685, in addition to \$37,300 cash capital; they employed 127 persons and paid \$82,393 in wages. The following table gives the statistics of the wholesale trade of Oregon in 1922:

Investment, persons engaged, and wages paid in the wholesale fish trade of Oregon in 1922

Localities	Establis	shments	Cash capital	Persons engaged	Wages paid	
Portland Other localities throughout the State	Number 7 21	Value \$64, 600 203, 085	\$7, 700 29, 600	Number 36 91	\$20, 926 61, 467	
Total	28	267, 685	37, 300	127	82, 393	

FISHERIES OF CALIFORNIA

In 1922, California was the leading fish-producing State on the Pacific coast. There were 9,173 persons engaged in fishing and related industries; 209 vessels engaged in fishing; 53 vessels engaged in transporting fish; 1,297 power boats and 292 rowboats and sailboats engaged in fishing; an investment of \$13,047,414 in vessels, boats, fishing apparatus, shore property, and canneries; and a production of 191,126,852 pounds of fishery products, with a value to the fisherman of \$6,773,981. Of this production 175,779,868 pounds, valued at \$5,884,156, were fish; 5,310,609 pounds, valued at \$456,970, were shellfish; and the remaining 10,036,375 pounds were whale products, valued at \$432,855.

Of the fishes pilchards or sardines, furnishing the raw material for a valuable canning industry, were most important, producing 92,114,542 pounds, valued at \$1,381,008. Albacore and tuna, equally important as raw material for canning, produced 25,252,392 pounds, valued at \$1,269,417. The production of salmon amounted to 7,236,580 pounds, valued at \$590,509, consisting mostly of chinooks but including a few silver salmon. A portion of the salmon was canned, though considerable quantities entered the fresh-fish trade. Bonito and skipjack yielded 11,648,413 pounds, valued at \$578,150, most of which was also canned. Flounders followed in importance, the production being 4,742,819 pounds, valued at \$470,813. cluded in this item is the flounder known to trade as "California halibut," of which there were reported 3,068,913 pounds, valued at \$419,867. Barracuda yielded 6,284,065 pounds, valued at \$439,817; sole, 6,949,557 pounds, valued at \$211,800; rockfishes, 4,219,650 pounds, valued at \$205,239; and white sea bass, or squeteague, 2,904,054 pounds, valued at \$176,993. The yield of cod, caught by California vessels fishing in Alaska waters and landing their salted product in San Francisco, amounted to 1,680,000 pounds, valued at \$84,000.

Mackerel, yellowtail, striped bass, shad, smelts, "lingcod," rock bass, mullet, anchovies, and kingfish, named in order of the value of their yield, each produced less than \$76,000 and over \$10,000 worth of products. Some 20 other kinds of fish, each having a yield

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valued at less than \$10,000 and aggregating 2,056,318 pounds, valued at \$70,746, made up the remainder of the fish production.

The production of shellfish amounted altogether to 5,310,609 pounds, valued at \$456,970, most important of which, from the standpoint of value, were oysters, which yielded 94,598 pounds, valued at \$101,351. Shrimps, spiny lobsters, crabs, abalones, clams, squid, octopus, mussels, and turtles, named in order of their value, made up the remainder of the yield of shellfish.

In addition to fish and shellfish, there were whale products to the value of \$432,855, consisting of whale oil, 915,000 gallons, valued at \$366,000; sperm oil, 5,050 gallons, valued at \$2,525; and other products, 3,136,000 pounds, valued at \$64,330.

Los Angeles, San Francisco, Monterey, and San Diego were the important centers of fishing. Los Angeles County, with its tuna and sardine fisheries, produced 86,803,137 pounds, valued at \$2,771,177. San Francisco County, with an important market fishery, followed Los Angeles with a production of 24,939,899 pounds, valued at \$1,101,288. Next in importance was Monterey County, with her large sardine fisheries, producing 49,351,971 pounds, valued at \$1,087,858. San Diego County, with tuna and sardine fisheries similar to those of Los Angeles but of lesser magnitude, produced 18,241,117 pounds, valued at \$852,620. The remaining counties, none of them with remarkably large catches, yielded 11,800,728 pounds, valued at \$961,038.

The following table shows in detail the statistics of the fisheries of California in 1922:

Items	Alan	Alameda		ısa	Contra	Costa	Del No	orte
PERSONS ENGAGED	Number	Value	Number	Value	Number	Value	Number	Value
On vessels transporting In shore fisheries Shoresmen			9 14		3 187 63		143 119	
Total	57		23	1873.1	253	r doi	262	200
INVESTMENT Vessels, transporting Tonnage Outfit Power boats Rowboats, scows, etc Apparatus, shore fisheries:	10	\$15,000		\$100 796		500 70, 275	2	
Gill nets Length, in yards Lines		210	170		81, 690		19,090	75
Haul seines Length, in yards Tongs, forks, rakes, and hoes	80 27	30 52	895		19	38	2 660	350
Fyke nets Miscellaneous apparatus Shore and accessory property Cash capital		45,950	15	200				430 35, 500 10, 000
Total		93, 422		2, 226		411, 962		59, 100

Persons engaged, investment, and products of the fisheries of California in 1922, by counties

Persons engaged, investment, and products of the fisheries of California in 1922, by counties-Continued

Items	Alan		Colu	usa	Contra	Costa	Del N	orte
PRODUCTS	Pounds	1	Pounds	Value	Pounds	Value	Pounds	Value
Carp, German					35, 456			
Catfish					243			
Flounders	1, 500	\$45			2,409	72	- 707	\$64
Grayfish	1,160	23						
Herring	70, 345	1,407						
Kingfish	25							110.0
"Lingcod"	A PERSON SHARE	80	Sec. 20	Sauce.			3, 645	182
Perch	31	1			30	1	1,402	
Pike, Sacramento					4, 249	127	-,	
Rockfishes							9,132	457
Solmon:	ST CASE						0,102	10.
Chinook	7 000	630	12 664	\$2.026	792, 795	71, 351	1,085,820	76 005
Silver		000	12,001	φ2, 020	102,100	11,001	19, 288	
Sea bass, white, or squeteague.							133	1,000
Shad		0			700 095	40,744		11
Smelt		1 100			1,018	40, 744	2,447	147
		1, 102			1 010	30		14
Splittail	190	0			1,018		2,490	174
Steelhead trout		1 000	100	26	201 700	11 201		
Striped bass	13, 454	1, 883	166			11, 504		
Other fish		3			978			
Crabs	1,804	250					15, 862	721
Shrimp		4,412						
Clams, soft		8/4			184, 131	9, 236		
Mussels								
Octopus							83	4
Turtles			75	8				
Total	171 990	10 999	19.005	2.060	9 152 609	124 167	1 141 000	70 17
		10, 828	12, 500	2,000	2, 100, 002	154, 107	1, 141, 003	10,11
Items	Glenn	В	umbold	Imperial	C 4 4.	Los Angeles		

	fail was a Visite							
PERSONS ENGAGED	- Conter	1.5.5.6	for a start of the second	alper an	1-2-4			1 m 1 m 1 m
TERSONS ENGAGED	Number	Value	Number	Value	Number	Value	Number	Value
On vessels, fishing	1. wintoci	rucco	110110001	Futue	1. antoci	ratae	860	ratac
On vessels, transporting							114	
In shore fishering	10						776	
Changeman	10		50		1 4		0 100	
In shore fisheries Shoresmen			80				2, 182	
Total	34		135		14		3, 941	
ALL FLOT DE LETT								
Vessels, fishing, gasoline Tonnage	1		1997 - 1997 - 1998 1997 - 1997 - 1998 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1				135	\$789, 34
Tonnage							1,910	
Outfit	1000		6				-,	196, 25
Outfit Vessels, transporting							35	
Tonnage							1,358	
Tonnage Outfit							1,000	11, 55
Power hosts				\$97 050	1	\$400	223	
Power boats Rowboats, scows, etc	10	\$210	20	φ21, 500	9	300		
Apporting possed fisheries:				1			10	02
Purse seines	1.1	1.00					52	118,10
T unse seilles							06 690	
Cill ante							26,680	5,39
Length, in yards Gill nets Length, in yards Lampara nets Paranzelle nets.							151	
Length, in yards							10, 980	
Lampara nets							107	79, 31
1 aranzena neus								
Lines								1,67
Trammel nets							82	3,06
Length, in yards							7, 200	
Trammel nets Length, in yards Pots							200	50
Apparatus, shore fisheries:								
Gill nets					3	150	306	8,14
Length, in yards					100		15,850	
Lines				1,605				4, 15,
Apparatus, shore fisheries: Gill nets Length, in yards Lampara nets Haul seines Length, in yards Trammel nets Length, in yards							158	66, 90
Haul seines	10	800	3	600				
Length, in vards	2,190		760					
Trammel nets	_,						369	11, 20
Length, in yards							25, 500	
Tongs forks rakes and hoes			5	10			23	3
Din nets			12	24				0
Tongs, forks, rakes, and hoes. Dip nets Pots			12	21			760	2,27
Miscellaneous annaratus			999	444			,00	2, 21
Miscellaneous apparatus		19 300		103 547		100		4 072 06
Cash capital		1,000		190,047		100		371 01
Cash capital								
Total		14, 410		266, 180				6, 540, 75

Persons engaged, investment, and products of the fisheries of California in 1922, by counties—Continued

Items	Gle	nn	Humb	oldt	Imp	erial	Los A	ngeles
PRODUCTS	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Albacore and tuna							20, 359, 472 364, 797	\$1, 029, 573 7, 295
Barracuda							4, 951, 931	345, 001
Bonito and skipjack							7, 203, 308	360, 022
Flounders			63, 652	\$5,075			1,677,898	233, 021
Flying fish Gravfish							8, 495 4, 475	174
77 16							27, 791	832
Hallmoon Herring Kingfish			6 999	194			21,101	004
Kingfish			0, 222	121			252, 659	5,053
"Lingcod"			12 060	603			172	0,000
Mackerel			12,000	000				51, 259
Mackerel Mullet					106.500	\$11,715	13, 328	1,458
Perch			67,077	2,683			59,962	3,000
Perch Pike, Sacramento Pilchard, or sardines	153	\$8						
Pilchard, or sardines							44, 558, 068	456, 951
Pompano							14, 100	4, 315
Rook bass			10.01			and the local data	146, 673	8,758
Rockfishes			10,010	500			1,004,589	60, 245
Salmon:	Sec. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		14.5 A.M.	1 hard hard	Summer B.		- Jan - Jaw -	
Chinook	52, 129	8,340	875, 246	70, 020				
Silver			36,468	2,917				
Sculpin							38, 156	
Sea bass, black, or jewfish Sea bass, white, or squeteague							73, 375	3, 948
Sea bass, white, or squeteague							2, 243, 287	133, 693
Sheepshead							1,373	14
Skates			00 510	1 200			3,938	79
Shales SmeltSoleStriped bass			26, 510	1, 590			169, 121	11, 900
Sole	104	16	100	10			115, 884	5, 793
Swordfish	101	10					22, 563	469
Tomcod							22, 005	40:
Whitebait			20 874	1 252				
Whitefish			20,011	1, 202			28, 444	1, 421
Yellowtail							1, 521, 641	30, 420
Other fish							37, 576	1, 132
Crabs							01,010	1, 101
Spiny lobster				.,			158, 500	12.874
Clams, hard			20, 242	1,013				160
Clams, soft			2,516	125				
Cockles								16
Octopus							5, 981	235
Squid							22, 772	1,130
Turtles							1,377	56
Total	52, 386	8, 364	1, 259, 047	91, 288	106, 500	11, 715	86, 803, 137	2, 771, 177

Persons engaged, investment, and products of the fisheries of California in 1922, by counties-Continued

Items	Ma	rin	Mendo	ocino	Mon	terey	Ora	nge
PERSONS ENGAGED	Number	Value	Number	Value	Number	Value	Number	Value
On vessels, fishing					21			
In shore, fisheries Shoresmen	137 22				465 837		46 3	
Total					1, 323		49	
INVESTMENT	and a start of the			- person	-		River.	
Vessels, fishing, gasoline Tonnage					3 18	\$26,080		2
Outfit				000 700		7,500		A17 00
Outfit Power boats Rowboats, scows, etc Apparatus, vessel fisheries:	1.1.1.1.2.2.2	C	C. C. Diladard		a state and a		17 10	10.2112
Abalone outfit Apparatus, shore fisheries: Gill nets Length, in yards Lampara nets Haul seines Length, in yards Trammel nets Trammel nets					3			distant
Gill nets	3 730	2,005	2 000	1, 500	1, 360	650	58 7 650	3, 82
Lines	0,100	855	2,000	3,910	1,000	9, 180	7, 650	66.
Lampara nets					32	37.500	1	45
Haul seines	4	400			200	350	3 300	700
Trammel nets	880				390	176	119	3. 57
Length, in yards					320	176	6,000	
Tongs, forks, rakes, and hoes.	98	165						222
Bag nets	14	700					165	
Abalone outfit					1	800	100	
Miscellaneous apparatus	262	375			37	50		
Trammel nets Length, in yards Tongs, forks, rakes, and hoes_ Bag nets Pots Abalone outfit Miscellaneous apparatus Shore and accessory property Cash capital		8, 900 7, 900		67, 650 6, 000		1,086,902 183,500		1, 10
Total		63, 590	0	169, 760		1, 773, 063		28, 48
PRODUCTS	10.10			er and the second				
PRODUCTS Albacore and tuna			Pounds		Pounds 236	Value \$11		Value \$1, 08
Anchovies Barracuda			February Control of Co	107.1	$136,433 \\ 13,031$	2, 728 912		65
Bonito and skipjack					2,106	105		
Bonito and skipjack Flounders Herring Kingfish	1, 927	\$248	37, 148	\$3, 714	26, 550	1, 894	88, 331	12, 33
Kingfish	12,000	200			228,019	4, 560	106	
"Lingcod"	86	5	6,873	344	85, 526	5, 132		
Mackerel					537, 137	16, 115 622	31,633	94 5
Herring "Lingcod" Mackerel Perch Pilchards or sardines Pompano	30, 623	919			20,741 44,676,589	893, 531	1,360	1
						134		39
Rockfishes Sablefish	183	.14	1, 485	74	1, 261, 424 3, 879	47, 143	15, 990	96
								e d'ant
Chinook Silver	200, 100	20,010	60, 670	4. 247	19, 310	1, 544		
Sculpin							20	
Sea bass, black, or jewfish Sea bass, white, or squeteague Skates	19, 191	1, 337	 	1	45, 732	1, 846 18		1,80
Smelt	19,916	1, 183			63, 329	5,066		9,44
Sole					62, 745	1,882		
Striped bass								
Whitebait Yellowtail	132	10					1, 261	2
Other fish					8,475		1,756	
Crabs Spiny lobsters	27, 500	3,750			44	3		2, 10
Shrimp		12,695						
Abalone		1 000			1, 504, 943			
Clams, hard Clams, soft	10, 200							
Mussels								8
Oysters, eastern, market	94, 598							
Octopus Squid		2			66, 802 124, 103	2,004 4,964		
	658, 540							-

Persons engaged, investment, and products of the fisheries of California in 1922, by counties-Continued

Items	Sacran	nento	San D	iego	San Fr	ancisco	San Jo	aquin
PERSONS ENGAGED	Number	Value	Number		Number	Value	Number	Value
On vessels fishing			249		192 57			
On vessels transporting In shore fisheries	100						14	
Shoresmen								
Total	111		1, 449		875		21	
INVESTMENT								
N. I. O.Line stress					7	009 900	. southt.	CALL CONTRACTOR
Vessels, fishing, steam					319			
Outfit						38, 130		
Vessels fishing gasoline			54	\$231, 965	. 7	95, 500		
Tonnage Outfit			513		84			
Outfit				68, 100	3			
Vessels, fishing, sail Tonnage					1,043			
Outfit					1,010	16,000		
Vessels transporting				39, 120	12	235,000		
Tonnage			138		1, 385			
Outfit				6,000		25, 963		
Power boats Rowboats, scows, etc Apparatus, vessel fisheries:	47 20	\$16, 900 4, 640	118 13	630			11.122.201.1	4, 025
Purse seines			2					
Length, in yards			1,000					
Gill nets Length, in yards			232 13, 026	0,450				
Lampara nets				17.225				
Paranzella nets					28	7, 250		
Lines				1,437		187		
Trammel nets			411					
Length in yards						700		
Shrimp nets Pots			530	1.400		100		
Harpoons						26,800		
Apparatus, shore fisheries:							Production of the second second	the second se
Gill nets Length, in yards	81	19,450	810	19,375	372	10, 000 7, 590 2, 000	14	2,700
Length, in yards Lines	24, 150		37, 950	5 070	20, 790	7 500	4,880	
Lampara nets			52	15,900	4	2,000		
Haul seines	1	250		500		-,000		
Length, in yards	300		500					
Haul seines Length, in yards Trammel nets			882	27,030				
Length, in yards			57, 170					
Tongs, forks, rakes, and noes.		180			30	10	50	300
Bag nets	50	100			60	1, 500		500
Pots			1,824	4,600				
Miscellaneous apparatus					2, 509	5,046		
Trammel nets Length, in yards Tongs, forks, rakes, and hoes Fyke nets Pots Miscellaneous apparatus Shore and accessory property Cash capital		21,500		1,074,094		347,030		30, 500
cuon cupital		1,000		104, 110		110,000		0,000
Total		70, 420		1,847,856		1, 433, 421		43, 760
PRODUCTS						data ya ya	doubt a	120 22
111	Pounds	Value	Pounds	Value	Pounds	Value		Value
Albacore and tuna Anchovies			4, 872, 537	\$238, 598	150 700	\$3,016		
Barracuda			1, 204, 980	83, 833	150, 786	\$3,010		
Bonito and skipjack			4, 406, 500			0	burker.	
Carn German	11 158						3,102	\$93
Catfish	7,118	996						
Cod, salted			720 100	100 717	1,680,000	84,000		
Flounders Grayfish			214, 900	102,717 4,723	1,633,512 93,641	1 873		
Hake			214, 000	4,120	68, 213	1, 365		
Hardhead	18, 206	1, 183				Contractor and the second	and and	RALACE
Herring	- · · ·				250, 887	5,018		
"Lingand"			13,735	275	3,434	69		
Kingfish "Lingcod" Mackerel Mullet			1,130	5 506	420, 358			
wither			183,040 28,800	5, 506 3, 168				
Perch			2,200		46, 244	1, 387		C Kiron8
Pike, Sacramento Pilchard or sardines					487	15		
Plichard or sardines	and the set of the set of		2, 705, 800	27,058	170, 420	3,409		
Pompano		5000-000-000-000-000-000-000-000-000-00	220		1,685			

Persons engaged, investment, and products of the fisheries of California in 1922, by counties—Continued

Items not start	Sacrai	nento	San D	viego	San Fra	ancisco	San Jo	aquin
PRODUCTS-Continued	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Rockfishes Sablefish			555, 832	\$33, 348	747, 137 212, 008	\$35,700 6,361		
Salmon: Chinook Sculpin	157, 921	\$18,950	6,000	122	722, 890		238, 637	\$21, 477
Sea bass, black, or jewfish			13,545 439,640	481	31, 350	2 820		
ShadSheepshead	47, 438	1,664	16, 520		31, 633	2, 820 950		3, 269
Skates			27, 230		110, 588	2, 213		
Smelt			8,810	436	85, 408 6, 509, 970			
Split-tail Striped bass	8, 317	1,247			166, 761	25, 014	1,607 83,895	
Suckers Swordfish			1,800	37				
Tomcod. Whitebait					30,989 63,001	1,240 7,560		
Whitefish Yellowtail			3,350	168 37, 818				
Other fish Crabs				331	98, 092 669, 000	3, 923 55, 749		
Spiny lobsterShrimp			726, 278	58, 451	819, 275			
Abalone			200					
Clams, hard Clams, soft Mussels					54,834 9,256	2,742		
Octopus					11.562	573		
Squið Sperm oil Whale oil					37,875 6,862,500	2, 525		
Other whale products					3, 136, 000			
Total	260, 559	24,678	18, 241, 117	852, 620	24, 929, 899	1, 101, 288	412, 923	37, 501

Items	San Dbi		Sar Barl		Santa (Cruz	Sola	ano
PERSONS ENGAGED	Naumhar	Value	Number	Value	Number	Value	Number	Value
On vessels transporting. In shore fisheries Shoresmen	32		43	<i>value</i>			174 moer 3 128 4	
Total	64		57		28		135	
INVESTMENT							05.0	
Vessels transporting Tonnage							2 10	
Outfit Power boats Rowboats, scows, etc	84			\$22, 800 120	8	\$3, 760	82 56	1,250 51,830 12,300
Apparatus, shore fisheries: Gill nets Length, in yards	30 2, 100	1, 100	321 9, 530		$3 \\ 480$		94 44, 150	
Lines Lampara nets	2	600 400		300	82	175 3,400		60
Haul seines Length, in yards Trammel nets	4	150	2 250 27	500	200			300
Length, in yards Tongs, forks, rakes, and hoes Pots	160 50		1,080		10	20		
A balone outfit Miscellaneous apparatus	1				4			
Shore and accessory property Cash capital		15, 500 6, 000		19, 500 3, 500		9,000 2,500		
Total		34, 800		55, 800		19, 355		94, 425

Persons engaged, investment, and products of the fisheries of California in 1922, by counties—Continued

Items		n Luis bispo	2		nta bara		Sa	nta C			olano
PRODUCTS Albacore and tuna Barracuda Bonito and skipjack	4,20		ue 378	Pounds 2,06 95,19 11,20	5 8	lue \$150 567 673	Pou 24	nds 517 1, 649	Value \$36 1, 232		ds Value
Carp, German	38, 33	20 5,3	364	360, 89			73	3, 191	2,338	4,2	07 \$12 05 4
Hake Herring	51	10	10					0,550	211 20		
Kingfish '' Lingcod '' Mackerel		15	ī	29	0	6		1,486			
Perch	- 2	80 70	9 10	12	5	222	13	2, 346 6, 4 98	195		
Pilchard or sardines				19	0	2		1,990	40		
Rock bass				1,18		70			00 770		
Rockfishes		50 4,	366	23, 52	0 1	,410		2, 823	20,758		
Salmon: Chinook Silver		30	5				38	1,464	29,748		39 43, 97
Sea bass, black, or jewfish Sea bass, white, or squeteague		40	180	35 42, 08		55	4	8, 217	3, 689		
Shad Sheepshead				32		10				137, 9	69 7,27
				2, 50	0	50		3,100 5,263	62		
Skates Smelts Sole	10, 6	00 3,	$\frac{762}{530}$	21,60 26,70		, 296		1,382	7,621 6,341		
Striped bass Tomcod								265	7	67,4	68 9,44
Whitefish				39		20 402	*****				
Yellowtail Other fish Crabs	8	00	32	20, 10 5, 10		200		9,734	592 250		73 1
Spiny lobster Abalone			736								
Clams, hard								1, 385	83		
Clams, Pismo Mussels		80 9, 50	594 5			5		185	7		
Octopus							1	4, 796	591		
Total	402, 6	45 24,	982	696, 37	0 81	,792	1, 61	1,368	81, 021	699, 4	61 60, 87
Items	Sono	oma		Ventu	ıra		Yo	lo	1000	Tot	al
FERSONS ENGAGED On vessels fishing On vessels transporting In shore fisheries							32			3, 136	Value
Shoresmen											
INVESTMENT			==			-	02		0.0	0,110	01/20/00
Vessels fishing, steam										7 319	\$238, 80 38, 13
Vessels fishing, gasoline Tonnage Outft Vessels fishing, sail									57.0	2, 525	1, 142, 89 293, 20
Outfit			-							1,043	59, 25 16, 00
Vessels transporting Tonnage										53 2,906	614, 67
Outfit Power boats Rowboats, scows, etc	10	\$11 35	ā -	·····ī	\$1, 50 10	ō		\$4,010	0	1, 297 292	45, 26 1, 660, 56 29, 67
Apparatus, vessel fisheries: Purse seines										54	120,00
Length, in yards									- 2	27,680	11, 84
Gill nets Length, in yards										383 4,006	11,01

Persons engaged, investment, and products of the fisheries of California in 1922, by counties—Continued

Items	Sono	oma	Vent	ura	Yo	lo	Tot	tal
INVESTMENT—continued					Ûe	un la un	-erabeos	4
pparatus, vessel fisheries-Con.	Number	Value	Number	Value	Number	Value	Number	Value
Lines Trammel nets Length, in yards								\$3, 2
Trammel nets							493	17, 5
Length, in yards							40, 488 30	
Shrimp nets Pots A balone outfit Harpoons							730	1, 9
Abalone outfit							3	2,8
Harpoons							4	26,8
DDaratus, shore fisherles:	and brown	AND AND	and have been	Sec. 19.4	a warman a real		A STATISTICS.	
Gill nets					20	\$2,000	2,437	159, 9
LinesLampara nets		\$320		\$30	5, 002	2	282, 022	35, 1
Lampara nets		φυμο		φ00			257	126,
Haul seines. Length, in yards. Trammel nets.	1	120	1	150	2	350	45	6, 6
Length, in yards	93		100		430		8, 528	
Trammel nets			8	320			1,413	43, 1
Length, in yards			640				90, 870	
Fyke nots	9	14			197	762	271	1,
Bag nets					121	102	74	2, 2
Dip nets							12	-,.
Pots			70	200			3, 819	10,
Abalone outfit							2	1,
Miscellaneous apparatus	145	355					3, 222	7 200
Trammel nets. Length, in yards. Tongs, forks, rakes, and hoes. Fyke nets. Bag nets. Dip nets. Pots. Abalone outfit. Miscellaneous apparatus. hore and accessory property		1,000				200		7, 290, 1
ash capital								
Total	<u></u>	13, 159	Yarren A	2,300		8, 174		13, 047, 4
PRODUCTS	D	17-1	D	77.7	Diverte	17.1		77-7-
lbacore and tuna	Pounas	Value	Pounds	Value	Pounas	Voiue	Pounds	Valu
							25, 252, 392 652, 516	
arracuda			4.700	\$423			6, 284, 065	439,
onito and skipjack	2		590	35			11, 648, 413	578,
arp, German					1, 131	\$34	55, 054	1,
arracuda Sonito and skipjack Sarp, German Jafash Jod, salted							7,361	1,
Jod, salted			4 260	619	1 514		1,680,000	
lounders lyingfish	*******		4,000	012	1,014	40	4, 742, 819 8, 495	410,
trayfish			0.000000				314, 176	
lake Ialfmoon							78, 763 27, 791	1,
Halfmoon							27, 791	
Iardhead							18, 206	1,
lerring Lingcod" Aackerel							341, 614 579, 754	
Lingcod"	596	\$30					569, 821	33,
Jackerel	000	φ00	530	26			2, 498, 197	75.
Aullet							148, 628	16.
Perch	70	2					236, 431	9,
Pike, Sacramento							7,370	1 901
Aullet Perch Pike, Sacramento Pilchard, or sardines Pompano Pompano							92, 114, 542 16, 494	
lock bass							285, 494	
lockfishes	2, 245	112	2, 530	152	<u></u>		4, 219, 650	205,
lock bass lockfishes ablefish							268, 905	
almon: Chinook								
	105,000	7,350			15,056	2, 258	7,084,950	579, 11,
Silver	11111111	101-0-0			111111111		151, 630 44, 176	11,
culpin ea bass, black, or jewfish ea bass, white, or squeteague had	Sec.0.05	1000		1			87, 559	
ea bass, white, or squeteague			2,700	270			2,904,054	176,
had	0.1.102				31, 528		1, 133, 270	
heepshead.			25	1			18,245	
kates melt	157		5,000				121, 753 728, 406	
ole	101	10	130				6, 949, 557	
plittail			100				10,408	10.081
teelhead trout							2,490	main
Steelhead trout Striped bass					3, 446	517	678, 820	62,
suckers							1,348	140.35
Swordfish							24, 363 31, 344	.01,
Fomcod							84,007	
Whitefish	0.000	0.01010	and the second second		121121		32, 184	1.
ellowtail			270) (3, 416, 572	68,
Other fish Drabs Spiny lobster			31,000	930)		217, 781 844, 472	1. 7,
								66,

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Items	Sonoma		Ventura		Yolo		Total	
PRODUCTS-continued					Pounds		Pounds 990, 349	Value \$94, 53
Abalone	50	\$3	*******	******		******	1, 523, 543 34, 189 191, 980	60, 94 2, 28 9, 59
Dlams, soft Dockles Mussels	3, 621 698	181 35		******		******	341, 173 860	22, 11 5
Dysters, eastern, market Octopus Squid				******	*******			101, 35 3, 40 9, 20
Sperm oll							1,452 37,875	2, 52
Whale oil				\$4,040			6, 862, 500 3, 136, 000 191, 126, 852	64, 33

Persons engaged, investment, and products of the fisheries of California in 1922, by counties-Continued

VESSEL FISHERIES

The fisheries of California in 1922 employed in actual fishing 7 steam, 199 gasoline, and 3 sailing vessels of 5 tons net burden and over, as measured by the Customs Service, not including 53 vessels engaged in transporting fish. The yield of the fishing vessels amounted to 77,556,811 pounds, valued at \$2,523,979.

Judging from the value of the catch, lines were the most important gear employed in the vessel fisheries, producing 15,409,209 pounds, valued at \$772,126. Albacore and tuna were most important in this catch, contributing over half the yield; bonito and skipjack followed, with about one-third of the catch; the cod caught in Alaskan waters and the rockfishes caught principally off Los Angeles and San Diego were next in order, while some 20 species of fish caught in smaller quantities made up the remainder of the catch by this type of gear.

Purse seines, operated principally from the port of Los Angeles, were next in importance, with a total catch of 8,500,584 pounds, valued at \$420,373. Their most important catches were barracuda, 2,395,635 pounds, valued at \$166,086; tuna, 3,891,781 pounds, valued at \$142,084; bonito and skipjack, 736,331 pounds, valued at \$36,710; and white sea bass, 616,114 pounds, valued at \$36,056. A number of other fishes caught incidentally in fishing for these principal species made up the remainder of the catch by purse seines.

Lampara nets produced an amount of fish much in excess of that produced by purse seines and nearly equaling the purse-seine catch in value, altogether amounting to 31,692,669 pounds, valued at \$412,662. Three-quarters of the catch by this gear consisted of sardines, while smaller amounts of bonito, barracuda, yellowtail, mackerel, white sea bass, and other fishes made up the remainder. Lampara nets were also important in providing bait for the line fishery, although the amount of bait caught does not enter these statistics.

Paranzella nets, operated exclusively from the port of San Francisco, produced 9,047,496 pounds, valued at \$287,086. Soles, flounders, and other bottom fish made up the catch of this gear.

Gill nets, fished principally for barracuda and white sea bass, caught 566,727 pounds, valued at \$32,228; trammel nets, catching almost

exclusively flounders, made a total catch of 526,533 pounds, valued at \$72,168; abalone outfits, operated exclusively from Monterey County, produced 1,124,965 pounds, valued at \$44,998; lobster pots in San Diego and Los Angeles Counties caught 562,253 pounds of spiny lobsters, valued at \$44,983; and shrimp nets in San Francisco County yielded 90,000 pounds, valued at \$4,500.

Whaling apparatus employed on vessels sailing from San Francisco and landing their whales at a shore station located at Moss Landing, furnished the raw material from which products valued at \$432,855 were made.

The following table gives the statistics of the vessel fishery of California in 1922, by species, counties, and apparatus:

Yield of the vessel fisheries of California in 1922, by counties, apparatus, and species

Purse seines: Albacore and tuna Barracuda Bonito and skipjack Flounders. Flying fish Kingfish. Mackerel	675, 231 129, 594	Value \$131, 785 162, 429	Pounds 295, 892	Value	Pounds	Value	Pounds	
Albacore and tuna Barracuda Bonito and skipjack Flounders Flying fish Kingfish	$\begin{array}{c} 3,595,889\\ 2,343,435\\ 675,231\\ 129,594 \end{array}$	\$131, 785 162, 429	295, 892					Value
Barracuda Bonito and skipjack Flounders Flying fish Kingfish	2, 343, 435 675, 231 129, 594	162, 429		\$10,299			3, 891, 781	\$142,084
Bonito and skipjack Flounders Flying fish Kingfish	675, 231 129, 594		52,200	3,657			2, 395, 635	166,086
Flounders Flying fish Kingfish	129, 594			2,055				
Flying fish Kingfish		33,655	61,100	3,055			736, 331	36, 710
Kingfish	380	18,006	3,100				132, 694	18,440
Kingfish		9					380	9
Macharol	515	10					515	10
IVIAUNCICI	100,542	3,012	1,000	30			101,542	3,042
Mullet	13,328	1,458					13,328	1,458
Perch	16,445	830					16,445	830
Pilchard or sardines	20,830	208					20,830	208
Pompano							769	257
Rock bass		1,389					23,176	1, 389
			30					
Rockfishes		238	30	2			4,014	240
Sculpin	720	17					720	17
Sea bass, black, or jew-	18.75 dise							1.16
fish	31,164	1,693	100	4			31,264	1,697
Sea bass, white, or sque-	12A0 0 1						and the B	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
teague	604,774	35, 376	11,340	680			616, 114	36,056
Sheepshead	150	1					150	1
Skates		î					35	î
Smelt		640					9.159	640
		792	1,400	70				
Sole			1,400	10			17, 255	862
Swordfish	750	23					750	23
Tomcod	. 90	4					90	4
Whitefish	3, 500	175					3,500	175
Yellowtail	409,679	8,182	69,000	1,720			478,679	9,902
Other fish	1,397	43					1,397	43
Spiny lobster	27	2				1	27	2
Squid		131					2,627	131
Turtles		56					1,377	56
m + 1		100 100	105 100	10.051			0.500.504	100 070
Total	8,005,422	400, 422	495, 162	19, 951			8, 500, 584	420, 373
Fill nets:		1.	Constraint Co. 1			Charles 11		
Barracuda	106,876	7,478	92,800	6,404			199,676	13,882
Bonito	14,650	733	144,900	5.545			159, 550	6,278
Flounders		Carlot - Contraction	14,500				14,500	2, 530
Flying fish		5	11,000				200	2,000
Grayfish	4,450	89	11,200	344			15,650	433
Machanal	97 119	813		109			30, 518	915
Mackerel.	27,118		3,400					
Perch	. 311	16	300	15			611	31
Rock bass			400	24			400	24
Rockfishes	. 27	2					27	2
Sea bass, black, or jew-		1.						
fish	1,340	56	2,720	95			4,060	151
Sea bass, white, or sque-	1	and the second second	A DOT					an included
teague	65.265	3,923	60, 500	3,630			125,765	7.553
Smelt		83	600				1,797	125
		00	150	12			150	120
Sole		32					12,400	248
Yellowtail	1,000		10,800	210				
Other fish	1,423	43	**********				1,423	43
Total	224,457	13, 273	342, 270	18,955	18		566, 727	32, 228

1 Includes 1,124,965 pounds of abalone, caught in Monterey County, and valued at \$44,998.

Yield of the vessel fisheries of California in 1922, by counties, apparatus, and species—Continued

Lampara nets: Barracuda Bonito Flounders Grayfish "Lingcod" Mackerel Perch Plchard or sardines Pompano Rock bass Rockfishes Sea bass, black, or jew-	$\begin{array}{c} 1,104,908\\ 6,330\\ 25\\ 25,301\\ 172\\ 246,374 \end{array}$	Value \$16,800 55,212 886 1 506	88,400		Pounds		Pounds 279,695 1,193,308	Value \$19,560
Bonito. Flounders Grayfish "Lingcod" Mackerel. Perch. Pilchard or sardines Pompano Rock fass. Rock fishes.	$\begin{array}{c} 1,104,908\\ 6,330\\ 25\\ 25,301\\ 172\\ 246,374 \end{array}$	55, 212 886 1	88,400	\$2,760				
Flounders Grayfish "Lingcod" Mackerel Perch Pilchard or sardines. Pompano Rock fishes	6, 330 25 25, 301 172 246, 374	886		4,420				
Grayfish Kingfish "Lingcod" Mackerel Perch. Pilchard or sardines Pompano. Rock bass. Rock fishes.	25 25,301 172 246,374	1					6, 330	59, 632 886
Kingfish "Lingcod" Mackerel Perch. Pilchard or sardines Pompano Rock bass. Rock fishes.	25, 301 172 246, 374		300	12			325	13
Mackerel Perch Pilchard or sardines Pompano Rock bass Rockfishes	172 246, 374						28, 536	577
Mackerel Perch Pilchard or sardines Pompano Rock bass Rockfishes	. 246, 374	8	0,200				172	5
Perch Pilchard or sardines Pompano Rock bass. Rock fishes.		7,391	62,450	1,874	*********		308, 824	9, 265
Pompano Rock bass Rockfishes	900	20					400	20
Rock bass	27,085,392			22,478	********		29, 333, 192	304,700
Rockfishes							579	231
Sea bass, black, or lew-	2,040			12				361 125
fish		60	200	8			1, 705	68
Sea bass, white, or sque- teague.			17, 900	1,086			116, 265	6, 981
Skates		642	E 700	403			185 14,957	1,045
Smelt							7,462	372
Swordfish							400	
Swordfish Whitefish		0	40				40	1.10
Yellowtail		4,004	159,700				359, 984	7,198
Other fish							655	19
Squid				1,575			31, 595	1,580
Total	29,034,284	374, 709	2, 658, 385	37,953			31, 692, 669	412, 662
Paranzella nets:					L. S. J. Market S.	- Conservation	a second a second	
Flounders					1,600,941		1,600,941	51, 207
Grayfish					58,631	1,173	58, 631	1,173
Hake				*******	68, 213			1,365
Kingfish "Lingcod"				*******	1,825	- 37	1,825	37
"Lingcod"					249, 361	14,960	249, 361 300	14,960
Perch					300 1,376	9		412
Pompano					289,498	412 14.050		14,050
Rockfishes Sablefish					75,753		75, 753	2, 273
Pilchard or sardines					2,245	45	2,245	45
Sea bass, white, or sque- teague	1	1			3,423	308		308
Skates					110, 538		110, 538	2, 212
Smelt.					4,037			194, 233
Sole Tomcod					5, 445			218
Other fish					93, 860		93,860	3, 754
Crabs					4,008			333
Clams, hard					22	1	22	1
Clams, soft					26	2	26	2
Octopus					3, 540	172	3, 540	172
Total					9,047,496	287,086	9,047,496	287,086
T in one								
Lines:	0.070 510	010 100	4 100 202	000 845		Constants.	0 110 077	410.000
Albacore and tuna Barracuda							8, 110, 051	416,286 4,823
Bonito	12,930	101 007	54,600 2,240,800	3,918 109,494			67, 530 4, 679, 405	231, 421
Cod, salted	- 2, 100, 000	121, 021	2, 210, 000	100,404		84 000	1,680,000	84,000
Founders				1,207	1,000,000		8,860	1,207
Grayfish			14,500				14,500	539
Kingfish			1,000				1,000	20
Mackerel.	- 600		5,490	164			6,090	182
Mullet			6,800	748			6,800	748
Perch			200				200	11
Pompano			220				220	88
Rock bass			13,350				13, 350	801
Rockfishes Sculpin		1,327	318, 180 200				340, 292 200	20,416
Sea bass, black, or jew- fish	- 920	37	8,425	294	See 1		9, 345	331
Sea bass, white, or sque- teague		15 .	05 200	0.070	1000.00 1000	100	95 200	2,278
Sheepshead	40	1	25,300	2,278			25, 300 560	2, 278
Skates			520	9			560 760	15
Smelt	- 100	10	50	3			50	1
			. 50				50	
Sole				2			790	2
Sole Swordfish	780	1						
Swordfish	- 780	25		44			780 870	
Sole	39, 896		870				870 442, 996	44 8, 872

Species	Los An	ngeles	San D	iego	San Fra	ncisco	Tot	al
Trammel nets: Barracuda	Pounds	Value	Pounds 14,300	Value \$801	Pounds	Value	Pounds 14,300	Value \$801
Founders Kingfish	118, 872	\$16,641		54, 510 2			507, 972 100	
Perch Rockfishes	477	24	410	24			477 410	24 24
Sea bass, black, or jew- fish	455	18					455	18
Sea bass, white, or sque- teague Smelt Sole Yellowtail	2,009	100	400 300 10 100	24 21 1 2			400 300 2,019 100	24 21 101 2
Total	121, 813	16, 783	404, 720	55, 385			526, 533	72, 168
Shrimp nets: Shrimp Pots: Spiny lobsters	23, 858	1, 908	538, 395	43,075	90,000	\$4, 500	90,000 562,253	4, 500 44, 983
Harpoons: Sperm oil Whale oil Other whale products					37, 875 6, 862, 500 3, 136, 000	366,000	6, 862, 500	366,000
Total			0000000000000		10, 036, 375	432, 855	10,036,375	432, 855
Grand total	43, 906, 023	1, 145, 677	11, 671, 952	524,863	20, 853, 871	808, 441	77, 556, 811	2, 523, 979

Yield of the vessel fisheries of California in 1922, by counties, apparatus, and species-Continued

SHORE AND BOAT FISHERIES

The shore and boat fisheries of California in 1922 employed 3,133 fishermen on 1,207 power boats and 292 rowboats, scows, and similar inshore fishing craft. The total yield was 113,570,041 pounds, valued at \$4,250,002.

As in the vessel fisheries, the greatest production was by lines, which contributed 28,067,355 pounds, valued at \$1,529,745. Albacore and tuna yielded 13,250,560 pounds, valued at \$711,047; salmon 4,270,980 pounds, valued at \$337,689; rockfishes, 3,582,283 pounds, valued at \$170,320; bonito and skipjack, 2,844,417 pounds, valued at \$142,277; barracuda, mackerel, and yellowtail in considerable amounts, and other fishes in lesser amounts.

Lampara nets followed lines in importance. Their total yield was 69,763,499 pounds, valued at \$1,353,915, made up largely of sardines, bonito and skipjack, barracuda, mackerel, white sea bass, and yellowtail.

Gill nets yielded 9,072,270 pounds, valued at \$628,285. About one-third of this was salmon; one-fifth, barracuda; one-sixth, white sea bass; one-tenth, striped bass; and one-tenth, shad. Other fishes were caught in smaller amounts.

Trammel nets yielded 2,460,900 pounds, valued at \$319,756, consisting almost entirely of flounders. Haul seines yielded a total catch of 795,421 pounds, valued at \$61,815, consisting principally of chinook salmon and smelts.

Bag nets catching herring and shrimp; fyke nets catching carp, catfish, hardhead, Sacramento pike, and splittail; dip nets catching perch; lobster pots catching spiny lobsters; abalone outfits yielding abalone; tongs, forks, rakes, hoes, and miscellaneous apparatus employed in fishing for shellfish, produced the remainder of the catch of the shore fisheries. The following tables give the yield of the shore fisheries of California in 1922 by species, apparatus, and counties:

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus

BY HAUL SEINES

Species	Co	luso	Del N	lorte	Gle	nn	Humi	boldt	Ma	rin
Flounders Herring "Lingcod"			Pounds					\$817	25	5
Perch			1, 402	\$56				1, 723	25, 500	76
Pike, Sacramento			50,000	3.500		\$8	A construction		125	*****
Salmon, chinook SmeltStriped bass	16	6 26	2, 447	147	104	16	26, 510	1, 590		
Turbot White balt Octopus							20, 874	1, 252	784 132 50	
Turtles					******	*****	*******	*****		
Total	. 11,40	5 1,820	53, 849	3,703	52, 386	8, 364	113, 026	5, 506	39, 352	1, 200
Species	Mon	terey	Orai	nge	Sacran	nento	San Barb	ta ara	Santa	Cruz
Carp, German			Pounds		4, 158		Pounds			
Flounders Hardhead Kingfish			265		3, 206	208	*******			
Kingfish Mackerel Perch			106	2	in the second		14, 450 125	\$722		
Pilchard or sardines			1,360	14	7,921	950	190	2		
Salmon, chinook Sheepshead Smelt Suckers Mussels	33, 32	9 \$2, 666	134, 942	9, 445			327 21,600	10 1, 296	60,000	\$4, 80
Suckers Mussels				******	1, 348		*******		185	
Total	. 33, 32	9 2,666	136, 673	9, 471	16, 633	1, 309	36, 692	2, 085	60, 185	4, 807
Species	Sola	no	Sono	ma	Vent	ura	Yo	lo	Tot	al
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Valu
Carp, German Flounders									4, 158	\$124 825
Hardhead			*******						3,206	208
Herring Kingfish	* * * * * * * *	******	****				*******		18, 872 106	377
"Lingcod"									80	
Mackerel			70		530	\$26	******	******	14,980	748
Pike, Sacramento			10	94		20110			70, 174	-,001
Pilchard or sardines			*******						1,675	19
Salmon, chinook	196, 377	\$17,673	5,000	350	0.700		10,000	\$1, 500	332, 591	34, 099 270
Herring Kingfish "Lingcod" Mackerel Perch Pike, Sacramento Pilchard or sardines Salmon, chinook Seabass, white, or squeteague Shad					2,100	210	6,057	321	6, 057	321
									327	10
Sheepshead Smelt Striped bass			157	10	5,000	300			283, 985 270	20, 254
SUCKERS					and a second second			an and a set	1, 348	27
Turbot									784	157
Whitebait Other fish Mussels					16.000	490	*******		21,006	1,268
					10,000	900			10,000	100
Octopus								0	50	2
									75	8
Total	106 277	17 672	5, 227	362	04 020	1 076	16, 057	1 891	705 491	61 815

somerial ritoria and
Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

BY GILL NETS

Species	Alameda		Colu	158	Contra	Costa	Del N	orte
Carp, German	Pounds	Value	Pounds	Value	Pounds 35, 456	Value \$1,063	Pounds	Value
Catfish					243	9		
Flounders					2,409	72		
Grayfish Herring	560 30,000	\$11 600						
Perch	31	1			30	1		
Pike, Sacramento					4, 249	127		
Salmon: Chinook Silver			1, 500	\$240	767, 795	69, 101	1,033,342	\$72, 334
Shad	50	3			799, 985	40, 744	19, 288	1, 350
Smelt Splittail	10, 783 196	862 5			1,018	30		
Steelhead trout	10,000	1,400			331, 792	11, 504	2,490	174
Striped bass Other fish	10,000	1,400			978	30		
Total	51, 729	2, 885	1, 500	240	1, 943, 955	122, 681	1, 055, 120	73, 85

- Species	Imp	erial	Los An	igeles	Mar	ion	Monterey	
Barracuda	Pounds	Value	Pounds 1, 821, 409	Value \$127, 498	Pounds	Value	Pounds	Value
Bonito and skipjack			85, 288	4, 264				
Flying fish			7,915	160				
Halfmoon				240				
Kingfish			26, 303	526				
Mackerel			150, 233	4,507				
Mullet	106, 500	\$11,715						
Perch			36,000	1,800	5,123	\$154	15,741	\$472
Pompano			8,800	2,640				
Rock bass				93				
Rockfishes			546	32				
Salmon: Chinook							79,461	6, 357
Silver							3, 310	264
Sculpin				1			0,010	
Sea bass, white, or squeteague Smelt			1,010,622	60, 637	12, 191 19, 916	917 1,183	597 30,000	41 2,400
Swordfish			590	12				-,
Yellowtail			70	2				
Other fish				352	10000000000000000000000000000000000000			10.000
Total	106, 500	11, 715	3, 168, 977	202, 764	37, 230	2,254	129, 109	9, 534

Species	Ora	nge	Sacrar	nento	San I	Diego	San Fra	ncisco
Barracuda	Pounds 8, 831	Value \$619	Pounds	Value	Pounds 58, 600	Value \$3, 797	Pounds	
Bonito and skipjack Carp, German			3,000	\$90	266,000	13,300		
Flounders Grayfish					52, 500	1,100	20, 182 5, 010	\$605 100
Hardhead Mackerel	30, 383	912	5,000	325	2,000	60		
Perch Pike, Sacramento		46					45, 944 487	1,378
Pilchard or sardines Rock bass Rockfishes	325	20			6,000 2,100 200	$ \begin{array}{r} 60 \\ 126 \\ 12 \end{array} $		
Salmon: Chinook			150,000	18,000	100	3		
Sea bass, white, or squeteague Shad	26,054	1, 568	47,438	1,664	321, 200	19, 252	27, 927 31, 633	2, 512 950
SmeltStriped bass			8, 317	1, 247	300	21	166, 761	25, 014
Whitefish					40	2		
Total	66, 505	3, 165	213, 755	21, 326	709, 040	37, 733	297, 944	30, 574

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

BY GILL NETS-Continued

Species Charles and and and a	San Jo	an Joaquin		San Luis Obispo		arbara	Santa Cruz	
Barracuda	Pounds	Value	Pounds	Value	Pounds 95, 192	Value \$8, 567	Pounds	Value
Bonito and skipjack Herring Perch			510 270	\$10 10	6, 200	373	1,000 3,498	\$20 105
Salmon: Chinook Silver	238, 637	\$21, 477					45,464 1,894	2,86
Sea bass, white, or squeteague	84,667	3,269	1,840	180	42, 089	4, 208	44, 016	3, 52
Smelt	83, 895	12, 584	62, 700	3, 762			35, 263	2, 82
Yellowtail Other fish@					5, 100 5, 100	102 200		
Total	407, 199	37, 330	65, 320	3, 962	153, 681	13, 450	131, 135	9, 45
	1	1		1			1 Januar	

Species		ano	Yo	10	Total		
Barracuda		Value		Value	Pounds 1, 984, 032	Value \$140, 481	
Bonito and skinigek					357, 488	17, 937	
Bonito and skipjack Carp, German	4 907	\$195			42, 663	1, 278	
Catfish		φ120			243	1, 210	
Flounders	805		1 514	\$46	24, 910	767	
Flying fish					7, 915	160	
Gravfish					58,070	1, 211	
Halfmoon					8,000		
Hardhead					5,000	240 325	
Herring Kingfish					31, 510	630	
Mackerel					26, 303	526	
					182, 616	5, 479	
Mullet					106, 500	11, 715	
Perch					107, 549	3, 967	
Pike, Sacramento					4, 736	142	
Pilchard or sardines					6,000	60	
Pompano					8,800	2,640	
Rock bass					3,972	239	
Rockfishes					746	44	
Salmon:							
Chinook	287, 262	25,852	5,056	758	2, 608, 517	216, 987	
Silver					24, 492	1,734	
Sculpin					115	4	
Sea bass, white, or squeteague					1, 486, 536	92,836	
Shad	137.969	7.278	25, 471	1,284	1, 127, 213	55, 192	
Smeit					158,962	11,049	
Splittall					1,214	35	
Steelhead trout	and the second				2,490	174	
Striped bass	67,468	9,444	3, 446	517	671, 679	61,710	
Swordiish					590	12	
Whitefish		3.02			40	2	
Yellowtail		10	10. 20.000		5,170	104	
Other fish	373	11			18, 199	596	
Total	498,084	42,754	35, 487	2,605	9,072,270	628, 285	

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

Species	Los An	geles	Monte	erey	Orar	ige	San D	iego
Anchovies Barracuda Bonito and skipjack Flounders	Pounds 364, 797 215, 890 1, 177, 914 8, 267	Value \$7, 295 15, 095 58, 895 826	Pounds 136, 433 13, 031	Value \$2,728 912	Pounds	Value	Pounds 500 264, 800 500, 000 20	Value \$10 18, 536 25, 000 3
Halfmoon Kingfish "Lingcod"	42 185, 540	3, 711	153, 019 50, 000	3,060 3,000			5, 400	102
Mackerel Perch	523, 467 1, 527	15,702		10, 115	578	\$16	58,000	1, 740
Pilchard or sardines Pompano Rock bass	17, 451, 846 3, 224 39, 512	174, 521 967 2, 330	44, 676, 589 448	893, 531 134	633	37	452,000	4, 520
Sablefish Sea bass, black, or jewfish		265	3, 879	116				
Sea bass, white, or sque- teague	400, 215 149, 588	24, 013 10, 535	15, 135	605	1, 646	100	20, 200	1,084
Sole Whitefish	75, 629 19, 919	3, 781 995	62, 745	1, 882			1,000	50
Yellowtail Other fish	369, 069 10, 462	7, 381 315	8, 475	254	244	5	729, 600	14, 592
Squid	20,050	1,000	124, 103	4,964			30, 500	1, 525
Total	21, 021, 367	327, 705	45, 580, 994	921, 301	3, 101	158	2,062,020	67, 163

BY LAMPARA NETS

Species	San Fr	ancisco	Santa	Cruz	Tot	al
Anchovies	Pounds	Value \$3,016	Pounds	Value	Pounds 652, 516	Value \$13,049
Barracuda			517	\$36	494, 238 1, 677, 914	34, 579 83, 895
Bonito and skipjack Flounders Hake			10, 550	211	8, 287 10, 550	829 211
Halfmoon Herring Kingfish	250, 887 1, 609	5, 018 32	31, 486	629	42 250, 887 377, 054	5, 018 7, 534
"Lingcod" Mackerel			25, 360	1, 521	75, 360 919, 182 1, 527	4, 521 27, 573 76
Perch. Pilchard or sardines Pompano	168, 175 309	90	1,990 33	40 10	62, 750, 600 4, 014	1,075,976 1,201
Rock bass Sablefish Sea bass, black, or jewfish				1, 590	40, 145 56, 897 4, 409	2, 367 1, 706 265
Sea bass, white, or squeteague Smelt	81, 371	6, 510			416, 996 251, 159	24, 718 18, 129
Sole Tomcod Whitebait	25, 544	1,022 7,560	211, 382 265	7	350,756 25,809 63,001	12,054 1,029 7,560
Whitefish Yellowtail					19, 919 1, 098, 913	995 21, 978
Other fish Squid			19, 734	592	38, 671 174, 653	1, 161 7, 489
Total	741, 682	26, 612	354, 335	10, 977	69, 763, 499	1, 353, 915

BY TRAMMEL NETS

Species	Los Ar	ngeles	Mon	terey	Ora	ange	San Diego	
Flounders Gravfish	Pounds 1, 403, 358	Value \$196, 316	Pounds 26, 550	Value \$1, 894	Pounds 87, 741	Value \$12, 280	Pounds 314, 520 35, 000	Value \$44, 033 700
Halfmoon Perch Rock bass	7,353 4,802	220 240					1,600 64,000	80 3, 200
Rockfishes Sole Whitefish	140	7					340	21
Total	1, 415, 653	196, 783	26, 550	1, 894	87, 741	12, 280	416, 760	48,099

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

BY TRAMMEL NETS-Continued

Species	Santa I	Barbara	Santa	Cruz	San Obis	Luis spo	Ven	tura	Tot	al
Flounders	Pounds 360, 895	Value \$50, 506	Pounds 73, 191	Value \$2, 338	Pounds 38, 320	Value \$5, 364	Pounds 4,360	Value \$612	Pounds 2, 308, 935 35, 000	Value \$313, 343 700
Halfmoon Perch									7,353 6,402	220 320
Rock bass Rockfishes									64,000 340	3,200
Sole Whitefish	26,700	1,335			10,600	530	130	15	37, 430 1, 300	1,880
Total	387, 595	51,841	73, 191	2,338	48, 920	5, 894	4, 490	627	2, 460, 900	319, 756

BY FYKE NETS

Species	Sacramento		Sacramento San Joaquin		Yo	lo	Total	
Carp, German Catfish	Pounds 4,000 7,118	Value \$120 996	Pounds 3, 102	Value \$93	Pounds 1, 131	Value \$34	Pounds 8,233 7,118	Value \$247 996
Hardhead Pike, Sacramento Splittail	10,000 1,466 7,587	650 50 227	1,015 1,607	30 48			10,000 2,481 9,194	650 80 275
Total	30, 171	2, 043	5,724	171	1, 131	34	37, 026	2, 248

pν	RAG	NETS
DI	DAU	NEID

Species	Alam	eda	Ma	Marin		San Francisco		Total	
Herring	Pounds 40,345	Value \$807	Pounds	Value	Pounds	Value	Pounds 40, 345	Value \$807	
Shrimp	44, 124	4, 412	126,950	\$12,695	729, 275	\$72,927	900, 349	90, 034	
Total	84, 469	5, 219	126, 950	12, 695	729, 275	72, 927	940, 694	90, 841	

BY DIP NETS

	Species	Humb	oldt
Perch		Pounds 24,000	Value \$960

BY LINES

Species	Alam	eda	Contra	Costa	Del Norte		Humboldt	
Flounders Gravfish	Pounds 1, 500 600	\$45	Pounds	Value	Pounds 707	Value \$64		
Kingfish "Lingcod" Rockfishes	25	1			3, 645 9, 132		12, 060 10, 010	
Solmon: Chinook Silver		630	25, 000	\$2, 250	2, 478	174	875, 246 36, 468	
Sea bass, white, or squeteague		320			133	11		
Sole Striped bass	3.454	483					166	10
Other fish							2, 768	138
Total	16, 579	1, 491	25, 000	2, 250	16, 095	888	984, 027	78, 446

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

Species	Los An	geles	Ma	rin	Mendo	ocino	Monte	rey
Albacore and tuna					Pounds		Pounds 236	Value \$11
Barracuda Bonito and skipjack Flounders	1, 706, 712 11, 477	85, 336 346	1, 118	\$90	37, 148		2,106	105
Halfmoon Kingfish "Lingcod"	15, 000	300			6, 873	344	35, 526	2, 132
Mackerel Perch Pompano	736	220					200, 000 5, 000	
Rock bass Rockfishes Salmon:	975, 880	58, 524	183	14	1, 485	74		77279
Chinook Silver Sculpin	37, 421	748				4, 247	16,000	1, 280
Sea bass, black, or jewfish Sea bass, white, or squeteague Sheepshead	64, 046	1, 819 3, 841 12	7,000	420			30, 000	
Skates Sole Striped bass	2, 958 15, 889	59 795					908	18
Swordfish	20, 143 5, 025	251						
Yellowtail Other fish Octopus	12,000	360						
Total	17, 154, 050	887, 108	241, 826	24,046	1, 562, 266	110, 305	2, 010, 200	90, 259

BY LINES-Continued

Species	Oran	ige	San D	iego	San Fran	ncisco	Santa B	arbara	Santa	Cruz
Albacore and tuna	Pounds 18, 082	Value \$1, 085	Pounds 446, 140	Value \$25, 542	Pounds	Value	Pounds 2, 065	Value \$150	Pounds	Value
Barracuda	602	40	628,000	43, 960	81	\$8				
Bonito and skip-	antes									
jack	60	4	1, 105, 300	55, 265			5,000	300	24, 649	\$1, 232
Flounders	325	45			12, 389					
Jrayfish			101, 400	2,028	30, 000	600				
Kingfish			4,000	80			290	6	50,000	
'Lingcod"			1, 130	50	170, 997		10.000		14,000	840
Mackerel	672	20	50, 700	1,536			10,000	500	12, 346	370
Mullet	246	10	22, 000 100	2, 420	*				2 000	
Perch		$\frac{12}{335}$		5 3,066			1, 185	70	3,000	90
Rock bass	5, 528	335 960	51, 100		457, 639	21,650	23, 520		512,823	20, 758
Rockfishes Sablefish	15, 990	900	236, 672	14, 200	136, 255	4,088	25, 520	1, 410	512, 625	20, 750
Salmon:					130, 200	4,000				
Chinook			1		722, 890	65 060			336,000	26,880
Silver		77	1111111111		122,000				14,000	
Seulpin	20	1	5,700	115					, 000	-,
Sea bass, black, or	20	-	0,100	110						
jewfish	287	18	2, 100	80	356.15	ebet (fill)	352	55		
Sea bass, white, or	12 12 LO	10.0	100 7.003	100						10000
squeteague	2, 175	141	3,000	180		1.1.61			4, 201	168
Sheepshead			16,000	160						
Skates	719	15			50	1	2,500	50	3, 100	62
Sole	3, 170	160	5, 100	250	35, 516	1,065				
Swordfish			1,700	34						
Whitefish			1, 100	55			390			
Yellowtail		20		10,020			15,000	300		
Other fish	1,756	81	11, 020	331	4, 232	169				
Total	50, 649	2,937	3, 193, 262	159, 377	1, 570, 049	103, 807	60, 302	2,861	974, 119	52, 520

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus-Continued

Species	San I Obis		Sola	no	Sono	ma	Vent	ura	Tot	al
in a state		Value	Pounds	Value	Pounds	Value	Pounds	Value		Value
Albacore and tuna					********			*****	13, 250, 560	\$711,047
Barracuda								\$423	848, 959	59, 603
Bonito and skipjack									2, 844, 417	142, 277
Flounders	*******	******			*******			******	111, 973	9, 468
Grayfish										2, 640
Halfmoon										370
Kingfish								*****	144, 315	2, 887
"Lingcod"					596					14, 443
Mackerel										28, 251
Mullet									22,000	2, 420
Perch									8, 346	257
Pompano									736	220
Rock bass								******	134, 431	8,068
Rockfishes	72,750	4, 366			2, 245	112	2, 530	152		170, 32
Sablefish									136, 255	4, 088
Salmon:					1.1.1.1.1.1	12.0		1.1111	all you would	
Chinook	30	. 5	5,000	\$450	100,000	7,000			4, 143, 842	328, 12
Silver									127, 138	9,564
Sculpin									43, 141	86
Sea hass black or jew-					1	1.1.1				
fish									36, 321	1, 973
Sea bass, white, or										South the We
squeteague									110, 555	5, 961
Sheepshead										173
Skates										20
Smelt										320
Sole										2, 28
Striped bass										99/
Swordfish									21, 843	437
Whitefish									6, 515	32
Yellowtail								6	1, 018, 330	20, 36
Other fish	800	20	*******			******			47, 576	1, 56
Octopus	800	32				*****	10,000	100	5, 981	23
octopus					******		*******	******	0, 001	200
Total	77, 975	4, 791	5, 000	450	102, 841	7, 142	23, 115	1, 067	28, 067, 355	1, 529, 74

BY LINES-Continued

BY LOBSTER POTS AND ABALONE OUTFITS

Species	Los Angeles		Mont	erey	Oran	ige	San Diego		
Spiny lobsters Abalone	Pounds 134, 615	Value \$10, 964	Pounds 379, 978	Value \$15, 199	Pounds 17, 504	Value \$2, 107	Pounds 187, 883	Value \$15, 376	
Species	San Luis Obispo		Santa Barbara		Ventura		Total		
Spiny lobsters Abalone	Pounds 18,400	Value \$736	Pounds 58, 000	Value \$11, 600	Pounds 6, 350	Value \$1, 270	Pounds 404, 352 398, 378	Value \$41, 317 15, 935	

BY TONGS, FORKS, RAKES, HOES, AND BY HAND

Species	Alam	ieda Contra		Costa	Hum	boldt	Los Angele	
Clams, hard			Pounds		20, 242	\$1,013	Pounds 2, 290	Value \$160
Clams, soft Cockles Mussels	14, 575 2, 724	\$874 109	184, 737	\$9, 236	2, 516	125	162	16
Total	17, 299	983	184, 737	9, 236	22, 758	1, 138	2, 452	176

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

BY TONGS, FORKS, RAKES, HOES, AND BY HAND-Continued

Species	Ma	arin	Ora	nge	San	Dieg	o San	Fran	cisco	Santa	Cruz
Abalone	Pounds	Value	Pounds	Value	Poun 20		lue Pour	nds V	alue	Pounds	Value
Clams, hard Clams, soft Mussels		\$1,020 8,956	897				54.8		,740 370	1, 385	-
Oysters, eastern, market.	94, 598	101, 351					9, 2				
Total	185, 688	111, 327	897	89	20	00	10 64, 0	64 3	, 110	1, 385	83
Species	01.81	San I	Luis Obis	spo Sa	inta Ba	arbara	Sono	ma	13	Total	Chir .
Abalone	00-10	Pour		lue P	ounds	Value	Pounds	Valu	e P	ounds	Value \$10
Clams, hard Clams, Pismo Clams, soft		191,	880 \$9,	594	100	\$5	50 3, 621	\$3	- 19	34, 167 91, 980 41, 147	2, 279 9, 599 22, 112
Cockles Mussels Oysters, eastern, market			150	5			698	35	00.0	860	51 573 101, 351
Total		192.	030 9	599	100	5	4, 369	219	6	75, 979	135, 978

BY MISCELLANEOUS APPARATUS

Species	Alameda		Alameda Del Norte		Hum	boldt	Ma	rin	Monterey	
Crabs Octopus	Pounds 1, 804	Value \$250	Pounds 15, 862 83		Pounds 115, 236	Value \$5, 238	Pounds 27, 500	Value \$3, 750	Pounds 44 66, 802	\$3
Total	1, 804	250	15, 945	725	115, 236	5, 238	27, 500	3, 750	66, 846	2,007
Species	San Franci		ncisco Sant		a Cruz	s	onoma		Tota	.1
Crabs Octopus	Pour 664, 8,		Value 55, 416 401	Pounds 2, 222 14, 796	\$250			582 84	ounds 40, 464 39, 703	Value \$66, 210 3, 000
Total		014 5	5, 817	17, 018	8 841	12,8	304	582 93	30, 167	69, 210

CANNING INDUSTRY

In 1922 there were 36 canning establishments in California. These employed 3,370 persons, paid wages amounting to \$1,562,469, had an investment of \$5,562,594, and produced a quantity of canned fishery products equal to 1,068,727 cases of forty-eight 1-pound cans each, valued at \$8,119,109. The sardine was the most important species canned, having a production in this year equal to 715,359 cases, each containing forty-eight 1-pound cans, and valued at \$3,361,480. The group of tuna and tunalike fishes, consisting of albacore, yellowfin tuna, bluefin tuna, striped tuna or skipjack, bonito, and yellowtail, produced a total pack exceeding that of sardines in value though not in quantity. It amounted to a quantity equal to 336,141 cases of forty-eight 1-pound cans each, valued at \$4,511,873. The pack of canned salmon amounted to 11,831 cases of forty-eight 1-pound cans, valued at \$196,310, and the pack of miscellaneous fishery products amounted to 5,396 cases of forty-eight 1-pound cans, valued at \$49,446.

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

Species	San I Obis		Sola	no	Sono	ma	Vent	ura	Tot	al
Cohet Printing Value						Value	Pounds	Value	Pounds 13, 250, 560	Value \$711,047
Albacore and tuna							4 700	\$423	848, 959	59, 605
Barracuda	4, 200	\$318					4, 100	35	2, 844, 417	142, 277
Bonito and skipjack							000	00	111, 973	9, 468
Flounders		******							132,000	2, 640
Grayfish									12, 396	370
Halfmoon										2.887
Kingfish										14, 442
"Lingcod"	15	1			596				244,842	
Mackerel	180	9							934, 445	28, 251
Mullet									22,000	2, 420
Perch									8, 346	
Pompano									736	220
Rock bass									134, 431	8,068
Rockfishes	72,750	4, 366			2, 245	112	2, 530	152	3, 582, 283	170, 320
Sablefish									136, 255	4, 088
Salmon:					1	100	1. P. 1.	1.10013	COL TO ANDRESS	1.
Chinook	30	5	5,000	\$450	100,000	7,000				328, 125
Silver									127, 138	9, 564
Sculpin									43, 141	864
See hass black or jew-						1.00	and the second second			
fish									36, 321	1, 972
Sea bass, white, or						1.1.1.1.1.1.1				
squeteague									110, 555	5, 961
Sheepshead							25	1	17, 208	173
Skates										205
Smelt										320
Sole										2, 280
Striped bass										995
Swordfish									21, 843	437
Whitefish									6, 515	326
Yellowtail									1, 018, 330	20, 367
Other fish	800	20							47, 576	1, 561
Octopus							10,000	100	5, 981	235
octopus									0,001	200
Total	77, 975	4, 791	5,000	450	102, 841	7, 142	23, 115	1, 067	28, 067, 355	1, 529, 745

BY LINES-Continued

BY LOBSTER POTS AND ABALONE OUTFITS

Species	Los Angeles		Mont	erey	Orar	nge	San Diego		
Spiny lobsters Abalone	Pounds 134, 615	Value \$10, 964	Pounds 379, 978	Value \$15, 199	Pounds 17, 504	Value \$2, 107	Pounds 187, 883	Value \$15, 376	
Species	San Luis Obispo		Santa Barbara		Ventura		Total		
Spiny lobsters Abalone	Pounds 18, 400	Value \$736	Pounds 58,000	Value \$11, 600	Pounds 6, 350	Value \$1, 270	Pounds 404, 352 398, 378	Value \$41, 317 15, 935	

BY TONGS, FORKS, RAKES, HOES, AND BY HAND

Species	Alam	eda	Contra Costa		sta Humbold		Los Angeles	
Clams, hard	Pounds	Value	Pounds	Value	Pounds 20, 242		Pounds 2, 290	Value \$160
Clams, soft Cockles	14, 575	\$874	184, 737	\$9, 236	2, 516		162	16
Mussels	2,724	109						
Total	17, 299	983	184, 737	9, 236	22, 758	1, 138	2, 452	176

Yield of the shore fisheries of California in 1922, by counties, species, and apparatus—Continued

BY TONGS, FORK	, RAKES, HOES	, AND BY	HAND-Continued
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Species	Ma	rin	Orange		San	Dieg	o San	Franc	isco	Santa Cruz	
Abalone	Pounds	Value	Pounds	Value	Pound 20		lue Pour	nds Va	lue	Pounds	Value
Clams, hard Clams, soft Mussels Oysters, eastern, market	80, 890	\$1,020 8,956 101,351	897				54,8	08 56 \$2,	740 370	1, 385	A alanti
Total	185, 688	111, 327	897	89	20	0	10 64, 0	64 3,	110	1, 385	83
Species	of th	San I	Luis Obis	spo Sa	anta Ba	rbara	Sonc	ma	133	Tota	1
Abalone		Pour	11.	lue P	ounds	Value	Pounds	Value	P	ounds 200	Value \$10
Clams, hard Clams, Pismo Clams, soft			880 \$9,	594	100	\$5	50 3, 621	\$3 	19	34, 167 91, 980 41, 147	2, 279 9, 599 22, 112
Cockles Mussels Oysters, eastern, market.		-fame					698	35		860 13, 027 94, 598	51 573 101, 351
		192.	030 9.4	599	100	5	4, 369	219		5, 979	135, 975

BY MISCELLANEOUS APPARATUS

Species	Alameda		Del 1	Del Norte		Humboldt		rin	Monterey	
Crabs Octopus	Pounds 1, 804	Value \$250	Pounds 15, 862 83		Pounds 115, 236	Value \$5, 238	Pounds 27, 500	Value \$3, 750	Pounds 44 66, 802	\$3
Total	1, 804	250	15, 945	725	115, 236	5, 238	27, 500	3, 750	66, 846	2,007
Species	San	Franc	eisco	Santa	a Cruz	s	onoma		Total	
Crabs Octopus	Pour 664, 8,		Value 55, 416 401	Pounds 2, 222 14, 796	\$250			582 84	ounds 40, 464 89, 703	Value \$66, 210 3, 000
Total	673,	014 5	5, 817	17, 018	841	12,8	304	582 93	30, 167	69, 210

CANNING INDUSTRY

In 1922 there were 36 canning establishments in California. These employed 3,370 persons, paid wages amounting to \$1,562,469, had an investment of \$5,562,594, and produced a quantity of canned fishery products equal to 1,068,727 cases of forty-eight 1-pound cans each, valued at \$8,119,109. The sardine was the most important species canned, having a production in this year equal to 715,359 cases, each containing forty-eight 1-pound cans, and valued at \$3,361,480. The group of tuna and tunalike fishes, consisting of albacore, yellowfin tuna, bluefin tuna, striped tuna or skipjack, bonito, and yellowtail, produced a total pack exceeding that of sardines in value though not in quantity. It amounted to a quantity equal to 336,141 cases of forty-eight 1-pound cans each, valued at \$4,511,873. The pack of canned salmon amounted to 11,831 cases of forty-eight 1-pound cans, valued at \$196,310, and the pack of miscellaneous fishery products amounted to 5,396 cases of forty-eight 1-pound cans, valued at \$49,446.

The following table gives the statistics of the canning industry of California in 1922:

Items	Number	Number	Value	Items	Number	Number	Value
Establishments Cash capital Persons engaged Wages paid	3, 370		490, 850	Tuna, bluefin and yellowfin—Con. ½-lb. round (48 to case) 1-lb. round (48 to	101, 737	50, 868	\$613, 344
PRODUCTS			1.0	case)	22, 926	22, 926	255, 437
Salmon, chinook: ¹ / ₂ -lb. flat (48 to case)	Cases as packed 15, 338	Standard cases 1 7, 669	Value 138, 042	Total Tuna, striped:		84, 423	1, 047, 621
1-lb. flat (48 to case)	4, 162	4, 162	58, 268	1/4-lb. round (48 to case)	34, 772	8, 693	126, 678
Total		11, 831	196, 310	¹ / ₄ -lb. round (100 to case)	3, 162	1,647	33, 690
Sardines: In oil—				¹ / ₂ -lb. round (48 to case)	122, 310	61, 155	622, 565
1/4-lb. square (100 to case)	21, 086	10, 982	217, 763	1-lb. round (48 to case)	17, 502	17, 502	159, 423
¹ / ₂ -lb. square (100 to case)	2, 413	2, 514	28, 952	Total		88, 997	942, 356
¹ / ₂ -lb, oval (48 to case)	376	188	4, 512	"Tonno:"			
1-lb. oval (48 to case) In mustard—	650	650	2, 600	14-b. round (48 to case) 14-lb. round (100 to	21, 221	5, 305	110, 919
1-lb. oval (48 to case)	53, 993	53, 993	295, 111	case) 1/2-lb. round (48 to	1, 467	764	* 14,670
In tomato sauce- 1/4-lb. square (100	00,000	00,000	200, 111	case)	1, 575	788	13, 478
to case) 1⁄2-lb. square (100	38	20	190	Total		6, 857	139, 067
to case) 1/2-lb. oval (48 to	482	502	3, 401	Bonito: 1/4-lb. round (100 to			
case)_ 1-lb. oval (48 to	4, 296	2, 148	14, 835	case) 1/2-lb. round (48 to	5, 223	2, 720	34, 879
case)1-lb. tall (48 to	601, 111	601, 111	2, 518, 843	case)	5, 368	2, 684	24, 021
case) All others—	78	78	232	Total		5, 404	58, 900
¹ / ₂ -lb. oval (48 to case)	2, 567	1,284	12,835	Yellowtail: ¹ / ₂ -lb. round (48 to	a stand	er migel	a sur share
1-lb. oval (48 to case)	41, 889	41, 889	262, 206	case) 1-lb. tall (48 to case)	4, 088 315	2, 044 315	17, 104 1, 890
Total		715, 359	3, 361, 480	Total		2, 359	18, 994
Albacore: ¼-lb. round (48 to case)	24,962	6, 240	126, 139	Miscellaneous: ² ¹ / ₄ -lb. round (48 to case)	1, 336	334	4, 866
1/4-lb. round (100 to case)	14,820	7, 719	222, 300	¹ / ₂ -lb. round (48 to case)	2, 474	1, 237	11, 716
1/2-lb. round (48 to case)	188, 235	94, 118	1, 368, 883	¹ / ₂ -lb. flat (48 to case)	220	110	5, 280
¹ / ₂ -lb. round (50 to case)	9,436	4, 914	108, 514	1-lb. round (48 to case)	219	219	1, 861
1-lb. round (48 to case) 4-lb. tall (12 to case)	34, 475 635	34, 475 635	466, 399 12, 700	1-lb. oval (48 to case) 1-lb. tall (48 to case)	$205 \\ 3,291$	205 3, 291	1,640 24,085
Total		148, 101	2, 304, 935	Total		5, 396	49, 446
Tuna, bluefin and				Grand total		1,068,727	8, 119, 109
yellowfin: 1/4-lb. round (48 to case)	37, 537	9, 384	154, 757	h i moq-1 dd	15 2 20	ol and	in tax
1/4-lb. round (100 to	-		12000	temality is a	baa 3	of turn	d) and
case)	2, 390	1, 245	24, 083	scour beginte	Simul	anoolo	.hat

Canning industry of California in 1922

Cases shown in this column have been reduced to the standard basis of forty-eight 1-pound cans.
 Includes fish flakes, abalone, mackerel, squid, shad, and shad roe.

WHOLESALE FISH TRADE

The wholesale fish trade of California in 1922 was conducted in 60 establishments valued at \$1,023,904 and employing \$195,074 cash capital and 456 persons, who received wages totaling \$487,115.

The following table gives the detailed statistics of the wholesale fish trade of California in 1922:

Investment, persons engaged, and wages paid in the wholesale fish trade of California in 1922

Localities		lishments	Cash capital	Persons engaged	Wages paid
San Francisco Oakland	Num- ber 11 4 11 8 8 3 3 12	Value \$47, 730 69, 950 501, 209 121, 293 136, 682 22, 740 46, 500 77, 800	\$30,000 30,700 28,014 29,860 38,000 38,000 3,000 8,500 27,000	64 31 68 118 88 12 19 56	\$64, 411 54, 550 80, 208 99, 023 127, 260 6, 240 8, 860 46, 553
Total	60	1, 023, 904	195, 074	456	487, 11

FISHERIES OF THE PACIFIC COAST STATES, 1923

Realizing the value, both to the conservationist and to the fish trade, of annual statistics on our fisheries, the general canvass of the Pacific Coast States for 1922 was followed by a similar though less detailed canvass for 1923. This was done in part to determine the feasibility of taking annual statistics with the limited personnel and funds available for this purpose. The Pacific Coast States were particularly favorable for such a trial, for a certain amount of statistics on the fisheries are collected annually by the State organizations responsible for the administration of the fisheries of those States. In California statistics were available on the number and type of fishing boats and vessels, number of fishermen, and the catch of each species by counties or by groups of counties. In Washington and Oregon statistics were available on the number of fishermen and the catch of certain fishes in Territorial waters. The statistics given herein are the available State statistics, supplemented and made uniform in character and scope by canvassing the industry for the necessary additional information.

In 1922 the total number of fishermen in the Pacific Coast States was 14,223, the number of fishing vessels 555, the number of boats 5,741, and the total catch 409,885,597 pounds, valued at \$18,914,976. The following table gives the detailed statistics, by States, of the Pacific Coast States in 1923:

Items	Washin	ngton	Oregon		Calif	ornia	Total		
Vessel fishery: Fishermen Vessels Tonnage Shore fishery: Fishermen Power boats Sail and row boats.	Number 1, 945 267 6, 980 3, 454 1, 751 289		Number 15 3 44 4,230 2,042 233		Number 1, 972 285 4, 071 2, 625 1, 307 135		Number 3, 932 555 11, 095 10, 309 5, 100 657		
FISH Albacore Anchovies	Pounds	Value	Pounds	Value	Pounds 12, 514, 833 307, 074	Value \$1, 627, 193 19, 292	Pounds 12, 514, 833 307, 074		
Barracuda Bonito Carp	383, 705	\$11, 511			7, 200, 575 1, 115, 247 148, 607	575, 285 47, 310	7, 200, 575 1, 115, 247 532, 312	575, 282 47, 310	

Fisheries of the Pacific Coast States, 1923

Items

Oregon

Washington

Inclus			and the		Sun in		100	Investory
FISH-continued				in l				
	Pounds	Value	Pounds	Value	Pounds 129, 286	Value \$23, 271	Pounds 130, 516	Value \$23, 333
Catfish Cod, fresh	1,230 162,642	7,167					162, 642	
Cod, salted	3, 680, 711	184,036			1, 398, 000	69,900		253, 936
Eels. Dolly Varden trout.	69				18, 249	548	18, 249	
Flounders	195, 600		5,000	\$150	4, 282, 659	459, 840		
Grayfish Hake		85		*******	360, 363 78, 969	1, 802 789		
Halibut	24, 151, 374	3, 183, 820	864, 166	136,056			25, 015, 540	3, 319, 876
Hardhead	495 280	4, 254	93, 750	1,876	9, 563 383, 950	96 3, 994		96 10, 124
Kingfish	1.00,000				411, 564	10, 301	411, 564	10, 301
Herring Kingfish "Lingcod"	223, 088	5, 292	77, 500	2, 325	467, 357 3, 592, 446	23, 369 144, 082		
Mullet.	20				74, 225	8,065	74, 225	8,065
Perch Pike, Sacramento Pilchard or sardine	53, 743	2, 224	15,000	750	359, 682 4, 624	19, 682 92		
Pilchard or sardine		*******			159, 197, 006		159, 197, 006	704, 280
Poinpano	********				32, 918	13, 298		
Rock bass Rockfishes	192, 997	4,625	62, 510	1,875	357, 269	30, 301 250, 314	357, 269 5, 205, 751	30, 301 256, 814
Sablefish	2, 226, 480	112,074	250,000	12,500	538, 292	32, 297	3, 014, 772	156, 871
Salmon				3,007,937	7,090,260	6, 046	106, 089, 172 60, 466	
Sea bass, black				******	226, 995	22, 168		
Sea bass, white, or squeteague	532	13			2, 520, 263	224, 869	2, 520, 795	224, 882
Shad	88, 767	2,710	403, 859	6,072	1, 285, 383	58,088	1, 778, 009	66, 870
Sheepshead Skates					31, 628 133, 988	639 717	31, 628 141, 198	
Skipjack or striped			*********				In Train and	Sec. 2 at
smelt.	1 178 551	28, 623	277, 195	9 771	11, 462, 522 806, 380	298, 085 24, 149		298, 085 55, 543
Sole	119,904	3, 637			7, 086, 035	286, 631	7, 205, 939	290, 268
Splittafl Steelhead trout	1 400 973	100.902	2, 855, 543	200, 181	13, 956 3, 011	140 422	13, 956 4, 259, 527	140 301, 505
Striped bass.	4, 100, 010	100,000		200, 101	909, 573	90, 957	909, 573	90, 957
Striped bass. Sturgeon. Suckers.	84, 057	6, 798	124, 121	9,928	342		208, 178 342	16,726
Swordfish					11, 691	1,468	11,691	1,468
Swordfish Tomeod Tuna, bluefin	784	13	5,000	400	41, 767 3, 301, 087	3,341 165,885	47,551 3,301,087	3,754
Tuna, yellowfin					10, 836, 925	-600, 412		165,885 600,412
Tuna, mixed. Whitefish			*******		662, 370	35, 471	662, 370	35,471
Yellowtail					39, 908 3, 979, 611	2,089 217,050	39, 908 3, 979, 611	2,089 217,050
Other fish					252, 012	21,055	252, 012	
Total	106, 357, 279	7, 174, 483	32, 312, 503	3, 432, 821	248, 689, 175	6, 766, 180	387, 358, 957	17, 373, 484
SHELLFISH			State of the second second					STOTATE
Crabs	1, 145, 540	54, 384			1, 075, 800	148, 459		250, 580
Crawfish Spiny lobster			141, 800	12,000	1,092,858	225, 656	141,800 1,092,858	12,000 225,656
Shrimp	34,657	4, 504			1, 113, 358	66, 801		
Clams: Cockle		che la la			36, 117	3,973	36, 117	3,973
Hard Mixed	598, 685	17,276			**********		598, 685	17, 276
Pismo				******	25, 845 237, 948	2,076 16,656		2,076 16,656
Razor	983, 900	44, 275			**********		1, 121, 205	50, 455
Soft. Mussels			31, 716	1,429	283, 095 60, 026	11, 323 3, 002	314, 811 60, 026	
Oysters, eastern,						1		
market. Oysters, native,					9, 600	3, 360	9, 600	3,360
market	2, 739, 960	267,000	19, 200	16,800			2, 759, 160 1, 587, 733	283, 800
Abalone Octopus	52, 377	1, 573	71		1, 587, 733 110, 222	60, 367 11, 022	1, 587, 733 162, 670	60, 367 12, 599
Squid		*******			1, 180, 446	7,680	1, 180, 446	7,680
Terrapin			******		1,270	77	1, 270	77
Total	5, 555, 119	389, 012	689, 375	84, 150	6, 814, 318	560, 452	13, 058, 812	1, 033, 614
WHALE PRODUCTS				CONTRACT OF	No.		and so the	Data lines
Sperm off	347, 250 1, 375, 500				15, 585	1,282 316,450	362, 835 6, 019, 793	19,782 407,950
Other products	744, 000	18, 510		********	2, 370, 000	81, 796		100, 306
Total	2, 466, 750	128, 510			7,029,878	399, 528	9, 496, 628	528,038
	STOLEN BURGER	and the second second	ADD DOLLAR DOLLARS	multiple to the	1,000,010	000,000	.,,	0000 0000

Fisheries of the Pacific Coast States, 1923-Continued

California

Total

Grand total... 114, 379, 148 7, 692, 005 33, 001, 878 3, 516, 971 262, 533, 371 7, 726, 160 409, 914, 397 18, 935, 136

WASHINGTON

In 1923 the fisheries of Washington employed 5,399 fishermen, 267 fishing vessels, 1,751 power boats, 289 rowboats, sink floats, and scows, and yielded 114,379,148 pounds of fishery products, valued at \$7,692,005.

The vessel fishery was carried on largely with gas vessels, all of the 267 mentioned above being of this type with the exception of 3 steamers at Grays Harbor engaged in whaling, 1 steamer and 2 schooners in King County in the line fishery, and 3 schooners in Skagit County also engaged in the line fishery. The total number of fishermen on vessels was 1,945, and the yield of vessels amounted to 56,323,616 pounds, valued at \$4,358,928. The shore and boat fisheries employed 3,454 fishermen and yielded 58,055,532 pounds, valued at \$3,333,077.

The following tables give the number, crew, and tonnage of fishing vessels, by apparatus employed and counties; the number of power and other boats employed in the shore or boat fisheries, by fishing apparatus and counties; the number of fishermen in the shore and boat fisheries, by counties; the yield of the vessel fisheries, by counties; the yield of the shore or boat fisheries, by counties; and the total yield of the fisheries of Washington, by counties.

and and an an an and the second of	Grays Harbor County			Isla	Island County			son Co	ounty	King County		
Fishery	Ves- sels	Crew	Ton- nage	Ves- sels	Crew	Ton- nage	Ves- sels	Crew	Ton- nage	Ves- sels	Crew	Ton- nage
Lines	Num- ber	Num- ber	Net tons	Num- ber	Num- ber	Net tons	Num- ber 2	Num- ber 6	Net tons 13	Num- ber 134	Num- ber 924	Net tons 3, 335
Purse seines Haul seines Beam trawls Drag bag nets		14	48	1	777	10 10		8	16	29 2 1 3	197 13 7 18	577 34 20 45
Whaling apparatus	3	30	195									
Total 1	5	- 44	243	1	7	10	3	14	29	158	1,095	3,842
Township of the second	Kits	sap Co	unty	Pier	rce Cou	inty	San J	uan C	ounty	Ska	git Cou	inty
Fishery	Kits Ves- sels	sap Con	unty Ton- nage	Pier Ves- sels	cce Cou	inty Ton- nage	San J Ves- sels	uan Co Crew	ounty Ton- nage	Ska Ves- sels	git Cou Crew	inty Ton- nage
Lines Purse seines Haul seines Beam trawls	Ves- sels Num- ber 9 20 5 2	Crew Num- ber 53 128 33 12	Ton- nage <i>Net</i> <i>tons</i> 111 300 77 34	Ves-	Crew	Ton- nage	Ves- sels	Crew Num- ber 5	Ton-	Ves-	Crew	Ton- nage Net tons 921
Lines Purse seines Haul seines	Ves- sels Num- ber 9 20 5	Crew Num- ber 53 128 33	Net tons 111 300 77	Ves- sels Num- ber 6	Crew Num- ber 29	Ton- nage Net tons 81	Ves- sels Num- ber 1	Crew Num- ber 5	Ton- nage Net tons	Ves- sels Num- ber 4	Crew Num- ber 109	Ton- nage Net

Vessels engaged in the fisheries of Washington in 1923, by apparatus and persons

¹ Exclusive of duplication,

1999 instantaded 945.	Snoh	omish C	ounty	Wha	tcom Co	unty	an oas A alo	Total			
Fishery	Vessels	Crew	Ton- nage	Vessels	Crew	Ton- nage	Vessels	Crew	Ton- nage		
Lines	Number	Number	Net tons	Number	Number	Net tons	Number 155	Number 1, 121	Net tons 4,461		
Purse seines Haul seines	12	89	256	18 3	131 21	420 69	121 11	863 74	2,488		
Beam trawls Drag bag nets							3 4	19 25	54 62		
Whaling apparatus	2	14	25	1	8	18	3 4	30 30	195		
Total ¹	12	89	256	18	131	420	267	1, 945	6, 980		

Vessels engaged in the fisheries of Washington in 1923, by apparatus and persons— Continued

Boats (by apparatus) and persons engaged in the shore fisheries of Washington in 1923, by counties

Boats, by apparatus	Aso tin				Clark	e Cov litz		Grant	Grays Har- bor	Is- land
Gill nets, drift: Gas Gill nets, set:				1	43	58	3		62	
Gas Row				3	7				57 57	
Haul seines: Gas		3		1	3		- 1	1		10
Pound nets: Gas Lines: Gas Drag bag nets: Gas Dip bag nets: Gas				39 1	3 1 2	4			28	74
Beam trawl: Gas Ring nets: Gas Crab traps: Gas									8	1
Total: ¹ Gas Row, sink floats, and scows				47	57	134	1	1	169 57	88
Persons engaged		8	1 2	43	85	140) 2	4	684	148
Boats, by apparatus	Jeffer- son	Kit- sap	King		Click- itat	Ma- son	Okan- ogan	Pa- cific	Pierce	San Juan
Gill nets, drift: Gas Gill nets, set:		2	15		2			83	5	1
Gas Row		1	2		4			17 6		
Haul seines: Gas Row	2	20	7			6		5	4	
Pound nets: Gas Lines: Gas Drag bag nets: Gas	27	48	8 102		5 5	1	1	59 64 1	35	3 36
Dip bag nets: Gas Reef nets: Gas		7				3				1
Beam trawl: Gas Fish wheels: Gas Brush wier: Gas		4	7	-	2	i		1	2	
Ring nets: Gas Crab traps: Gas	1	1	8					19 13	1	
Clam hoes, shovels, and forks: Gas Oyster forks, rakes, and baskets:		6	1		2				2	
Gas Row, sink floats, and scows						$\begin{array}{c}3\\42\end{array}$				
Total: 1 Gas Row, sink floats, and scows	31	86	129		15	15 42	1	246 10	48	45
Persons engaged	81	179	222	1	21	42	1	534	79	69

¹ Exclusive of duplication.

Boats (by apparatus) and persons engaged in the shore fisheries of Washington in 1923, by counties—Continued

Boats, by apparatus	Ska- git	Ska- mania	Sno- hom- ish	Thurs- ton	Wah- kia- kum	Walla Walla	What- com	Whit- man	Total
Gill nets, drift: Gas Gill nets, set:	85	1	12		162		moni		527
Gas Row	1	6 2			7		1		127 65
Haul seines: Gas Row	6	1	8	7	4 2		2	3	94
Pound nets: Gas Lines: Gas Drag bag nets: Gas	45	$\frac{2}{2}$	45	6	21 2	3	35 30		176 698 18
Dip bag nets: Gas Reef nets: Gas	1		2	5			1		67
Beam trawl: Gas Fish wheels: Gas			1	1					18 3 2
Brush wier: Gas Ring nets: Gas Crab traps: Gas Clam hoes, shovels, and forks: Gas	25		10				8		36 65 9
Oyster forks, rakes, and baskets: Gas Row, sink floats, and scows	2 8			$\begin{array}{c} 14\\ 168\end{array}$					19 218
Total: 1 Gas Row, sink floats, and scows	146 8	12 2	75	31 168	184 2	3	80	3	1, 751 289
Persons engaged	217	17	90	113	293	3	172	6	3, 454

¹ Exclusive of duplication.

Yield of the fisheries of Washington in 1923, by counties and species

Species	Aso	tin	Bent	ton	Clall	am	Clar	ke
Carp	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 190, 080	
Carp Cod, fresh Dolly Varden trout					$ 463 \\ 38 $	\$14 1		
Halibut "Lingcod"					500, 220 62	62, 535		
Salmon: Blueback or sockeye Chinook Chum Silver	8, 609				651, 498 4, 602 765, 901	66, 638 116 34, 225	84, 324 307, 636 13, 841 61, 436	11, 385 43, 198 139 3, 073
Shad	19, 592 218	1, 371 17	330	\$26	6, 802 2, 080 57, 134 42, 064	544 187 2, 857 1, 262	31, 414 9, 700 58, 484 8, 682	471 97 4, 093 694
Total	32, 419	3, 133	330	26	2, 030, 864	168, 380	765, 597	68, 854

Species	Cow	Cowlitz		Garfield		int	Grays Harbor	
Carp	Pounds	Value	Pounds	Value	Pounds 193, 625		Pounds	Value
Salmon: Blueback or sockeye Chinook Humpback	225, 009 435, 622 148, 823	\$30, 376 60, 847 1, 489	1, 596 360	32			1, 527, 843	\$2, 110 58, 632 23, 852 79, 188
SilverShadShad	172, 910 5, 385	8, 648 81 9, 014	2, 880	144			1, 237, 488 189	37, 399 3
Steelhead trout Sturgeon Crabs	144, 345 7, 206	10, 105 574					6, 499 7, 727	608 605 3, 136
Clams, razor Sperm oil Whale oil							639, 138	28,762 18,500 91,500 18,510
Other whale products Total	2, 040, 795	100 100	4, 836	391	193, 625	5, 809	8, 253, 061	362, 805

Yield of the fisheries of Washington in 1923, by counties and species-Continued

Species	Isla	nd	Jeffer	rson	K	ing	Kits	ар
Catfish	Pounds	Value	Pounds	Value	Pounds 1, 230	Value \$62	Pounds	Value
Cod, fresh Cod, salted	918	\$27			156, 434 1, 356, 711	6, 993 67, 836	2, 747	\$71
Dolly Varden trout Flounders	$ \begin{array}{r} 16 \\ 6,097 \\ 53,400 \end{array} $	$\begin{array}{c}1\\124\\70\end{array}$			48, 595 6, 000	976 15	15 18, 174	1 537
Grayfish Halibut Herring "Lingcod"	48 4, 961 430	7 50 9	1,000	\$123	$22, 311, 314 \\ 176, 668 \\ 212, 166$	2, 942, 670 1, 767 5, 072	210, 139 108, 930 1, 795	31, 062 1, 089 36
Mackerel Perch Rockfish Sablefish	20 6, 360 7, 584	$\begin{array}{c}1\\254\\153\end{array}$			9,406 166,682 2,174,980	419 4,094 109,364	14, 704 6, 721 4, 500	621 135 360
Salmon: Blueback or sockeye. Chinook. Chum. Humpback. Silver.	822 328, 286 18, 344 85, 590 279, 804	$116 \\ 33, 590 \\ 440 \\ 2, 682 \\ 12, 725$	19, 348 188, 374 23, 762 251, 720 207, 133	2,755 19,363 573 8,390 9,770	$\begin{array}{c} 232,755\\ 1,771,774\\ 2,052,148\\ 9,805,955\\ 2,654,261\end{array}$	32, 686 167, 290 47, 097 155, 872 89, 955	112, 760 371, 054 700, 160 1, 997, 868 731, 014	15, 811 37, 292 17, 199 63, 344 26, 867
Sea bass, white, or sque- teague	161	4			6 69	13		
Skates Smelt Sole	295 55, 933 4, 524	2,722 136	3, 565	285	5, 240 1, 495 44, 583	$52 \\ 120 \\ 1,377$	$ \begin{array}{r} 145 \\ 49, 156 \\ 49, 563 \\ \end{array} $	3, 858 1, 487
Steelhead trout Sturgeon Tomcod			48	4	28, 328 1, 920	2, 547 185	$ \begin{array}{r} 64 \\ 1,165 \\ 510 \end{array} $	6 105
CrabsShrimp		1, 769	1, 386	69	62, 942	3, 147	9,658 13,142	483
Clams, hard Clams, razor	18,860	407	65, 935 54, 425	1,318 2,449	30, 230	1, 209	404, 100	11, 221
Octopus	189	6	3, 890	117	1, 781	53	1, 589	48
Total	908,062	55, 296	820, 636	45, 216	43, 313, 673	3, 640, 862	4, 809, 673	213, 354

Species	Klick	citat	Mas	son	Okan	ogan	Paci	ic
Cod, fresh			Pounds 46 115	Value \$1 2	Pounds		Pounds	Value
"Lingcod" Perch Rockfish			16 16, 810 941	$\begin{smallmatrix}&1\\672\\19\end{smallmatrix}$			550	\$22
Salmon: Blueback or sockeye Chinook Chum Silver	2,937 27,250 12,919 203,328	\$406 3,097 130 8,000	4, 167	427 198			231, 572 2, 001, 173 259, 099 1, 107, 557	31,262 267,419 4,674 52,749
Shad Smelt Sole			25, 420 1, 240	2,017			43, 238	1, 977
Steelhead trout Sturgeon Crabs	7,102	$12,508 \\ 572$			720	\$58	$\begin{array}{r} 454,424\\22,019\\213,158\end{array}$	31,815 1,762 10,648
Shrimp Clams, hard Clams, razor			$2,880 \\ 11,569$	374 463				10, 010
Oysters			300,000	28,000				
Total	414, 541	24, 713	367, 370	32, 211	720	58	4, 620, 476	415, 273

Species	Species Pierce		San	Juan	Skag	çit	Skam	ania
Cod, fresh Cod, salted	Pounds 630	Value \$19	Pounds 44	Value \$1	Pounds 1, 360 2, 324, 000	Value \$41 116, 200	Pounds	Value
Flounders Halibut Herring	748 1, 118, 210	$\begin{smallmatrix}&&15\\145,767\end{smallmatrix}$	1, 200	190	437 8,492 6,030	110, 200 9 1, 347 60		
"Lingcod" Perch	$1,296 \\ 4,091$	26 163	3, 913	78	2, 571	51		
Rockfish Sablefish Salmon:	295 47,000	6 2,350	9, 137	183	1, 159	24		
Blueback or sockeye Chinook Chum	310,704 221,256 1,336,679	43, 438 22, 379 32, 203	59,976 217,226 54,517	8, 516 21, 518 1, 348	$\begin{array}{r} 412,350\\ 1,612,271\\ 587,690 \end{array}$	59,036 146,869 14,522	9, 362 29, 723 12, 072	\$1,263 4,161 121
Humpback Silver Sea bass, white, or squeteague	4, 766, 248 1, 043, 282 88	$150, 183 \\ 33, 445 \\ 2$	258, 505 312, 641	8, 616 12, 148	3,358,766 1,258,753 277	117, 851 40, 336 6	14, 393	719
ShadSkates	500	5			220 30	11 1	233	3

Yield of the fisheries of Washington in 1923, by counties and species-Continued

	Pie	rce	S	an J	uan	1513	Skag	git solo	Skar	nania
Walter President Parties	Pounds	Valu	e Pou	nds	Value	Po	unds	Value	Pound	8 Value
Smelt	13,857	\$1,07		579	\$46		8,717	\$698		
Sole	18,300	54	9			-	1,650	50	- Indiana da	- Barris
Steelhead trout	181	1	4	16	1		22, 184	1, 995	32, 192	\$2, 25
Sturgeon						-	4, 145	373	4, 813	380
Tomcod		1								
Crabs			0			- 3	66, 630	18,332		
Shrimp	57, 240	31				-	$13,054 \\ 7,251$	1,697 290		-
Clams, hard Oysters		2, 29	0				99,960	5,000		
Octopus	1,250	3	8	200	6		1,206	37		- Kola - Cola
	1									1 1 1 1 1 1 1 1
Total	8, 945, 180	434, 31	9 917,	954	52, 651	10,0	99, 203	524,836	102, 788	8,906
Species	Snohon	nish	Т	hurs	ton	2918 2018	Wahlti	akum	Walla	Walla
	Pounds	Value	Poun		Value		ounds	Value		Value
Flounders	121, 314	\$2,427		120						
Herring	200	2								
Herring "Lingcod" Perch	594	13								
Perch	1,822	73								
Rockfish	401	9								
Salmon:	05 500	14 045	and a large	1.1		120	07 650	¢17 004	Sec. 190	SISTI VZ
Blueback or sockeye Chinook	95, 532 260, 863	14, 245 25, 858		503	3, 84	13 1 0	27, 652 81, 404	\$17,324 179,407		
Chim	612 164	15 200	01,	505	0,09	1, 4	57, 681			
Chum Humpback	612, 164 1, 694, 175	15, 322 53, 508				2	01,001	2, 576		
Silver	598, 088	21,079	37	101	1, 78	1 4	34, 509	21,724	198	\$10
Shad	000,000	21,013	01,	101	1,10	4	8,019		190	
Skates	1,000	10								
Smelt	4, 302	344	87.	394	6.99	2				
Sole	44	1		112						
Steelhead trout	54	5				4	51,633	31,612		
Sturgeon	and a second second			2			17, 380	1,391	475	38
Crabs	77,616	3,881								
Shrimp			3,							
Clams, hard	400	16								
Clams, razor								119		
Oysters			2, 340,	000	234,00					
Octopus	208	6								
Total	3, 468, 777	136, 799	2, 505,	635	247, 02	24 2,5	80, 929	254, 314	673	48
Species	2 196 31.3	E 1 1.3	What	com	1 1	Whi	tman	1	Total	0.1
ND2 CT 1 102 001	The Lot of the									
100 0 1 Post 200			1000 - C	1						
est a l'antigent d'antigent d'antigent		1 1	ounds			Pounds	Value		ds	Value
Carp						Pounds	Value	. 383,	ds 705	\$11, 511
Carp			·····•·	0000		Pounds	Value	. 383,	ds 705 230	\$11, 511 62
Carp			·····•·	0000		Pounds	Value	. 383,	ds 705 230 642	\$11, 511 62 7, 167
Carp Catfish Cod, fresh Cod salted				0001		Pounds	Value	383, 1, 162, 3 680	ds 705 230 642 711	\$11, 511 62 7, 167 184, 036
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout				00011 00011 0111		Pounds	Value	383, 1, 162, 3,680,	ds 705 230 642 711 69	\$11, 511 62 7, 167 184, 036
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders						Pounds	Value	383, 1, 162, 3,680, 195,	ds 705 230 642 711 69 600	\$11, 511 62 7, 167 184, 036 4, 092
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut			751		\$119	Pound	Value	383, 1, 162, 3,680, 195, 59, 24,151	ds 705 230 642 711 69 600 400	\$11, 511 62 7, 167 184, 036 3 4, 092 85
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut			751		\$119	Pound	Value	383, 1, 162, 3,680, 195, 59, 24,151	ds 705 230 642 711 69 600 400 374 3,	\$11, 511 62 7, 167 184, 036 4, 092 85 183, 820
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut			751		\$119	Pound	Value	383, 1, 162, 3,680, 195, 59, 24,151	ds 705 230 642 711 69 600 400 374 389 088	\$11, 511 62 7, 167 184, 036
Carp Catfish Cod, sited Dolly Varden trout Flounders Grayfish Halibut Herring "Lingcod" Mackerel			751 128, 600 245		\$119 1,286 5	Pounds	Value	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223,	$\begin{array}{c c} ds & & \\ 705 & \\ 230 & \\ 642 & \\ 711 & \\ 69 & \\ 600 & \\ 400 & \\ 374 & \\ 389 & \\ 389 & \\ 088 & \\ 20 & \\ \end{array}$	\$11, 511 62 7, 167 184, 036 3 4, 092 85 183, 820 4, 254 5, 292
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut Herring "Lingcod" Mackerel Perch	C.17		751 128, 600 245		\$119 1, 286 5	Pounds	Value	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223, 53,	ds 705 230 642 711 69 600 400 374 389 088 20 743	\$11, 511 62 7, 167 184, 036 3 4, 092 85 183, 820 4, 254 5, 292 1 2, 224
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Flounders Grayfish Halibut Halibut Herring "Lingcod" Mackerel Perch Rockfish			751 128, 600 245 77		\$119 1, 286 5	Pound	Value	$\begin{array}{c} 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \end{array}$	ds 705 230 642 711 69 600 400 374 389 088 20 743 997	\$11, 511 62 7, 167 184, 036 4, 092 85 183, 820 4, 254 5, 292 12, 224 4, 625
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish_ Halibut Halibut Herring "Lingcod" Mackerel Perch Rockfish Sablefish			751 128, 600 245 77		\$119 1, 286 5	Pound	Value	$\begin{array}{c} 383,\\ 1,\\ 162,\\ 3,680,\\ 195,\\ 59,\\ 24,151,\\ 425,\\ 223,\\ 53,\\ 192,\\ \end{array}$	ds 705 230 642 711 69 600 400 374 389 088 20 743 997	\$11, 511 62 7, 167 184, 036 4, 092 85 183, 820 4, 254 5, 292 12, 224 4, 625
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut "Lingcod" Mackerel Perch Rockfish Sablefish Salmon:			751 128, 600 245 77		\$119 L, 286 5	Pound	Value	$\begin{array}{c} 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \end{array}$	ds 705 230 642 711 69 600 400 374 389 088 20 743 997 480	$\begin{array}{c} \$11, 511\\ 62\\ 7, 167\\ 184, 036\\ 3\\ 4, 092\\ 85\\ 183, 820\\ 4, 254\\ 5, 292\\ 1\\ 2, 224\\ 4, 625\\ 112, 074\\ \end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut Herring "Lingcod" Mackerel Perch Rockfish Sablefish Sablefish Blueback or sockeye			751 128, 600 245 77 717, 497	24	\$119 1, 286 5 2 2, 708	Pound:	\$ Value	383, 1, 162, 3, 680, 59, 24, 151, 425, 223, 53, 192, 2, 226, 3, 664, 3, 664, 300, 500, 500, 500, 500, 500, 500, 500	ds 705 230 642 711 69 600 400 374 389 088 20 743 997 480 245	\$11, 511 62 7, 167 184, 036 84, 032 85 183, 820 4, 254 5, 290 12, 224 4, 622 112, 074 514, 257
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish Halibut Herring "Lingcod" Mackerel Perch Rockfish Sablefish Sablefish Salueback or sockeye Chinook			751 128, 600 245 77 777 307, 497 307, 450	242	\$119 1, 286 5 2 2, 708 0, 416	Pound	\$ Value	$\begin{array}{c} 383,\\ 1,\\ 162,\\ 3,680,\\ 195,\\ 59,\\ 24,151,\\ 425,\\ 223,\\ 53,\\ 192,\\ 2,226,\\ 3,664,\\ 13,217,\\ \end{array}$	ds 705 230 642 711 69 600 400 374 389 0088 20 743 997 480 245 424 1,	$\begin{array}{c} \$11, 511\\ 62\\ 7, 167\\ 184, 092\\ 86\\ 183, 820\\ 4, 254\\ 5, 292\\ 12, 224\\ 4, 622\\ 112, 074\\ 514, 257\\ 374, 204\\ \end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut Herring "Lingcod" Mackerel Pereh Rockfish Sablefish Salmon: Blueback or sockeye Chinook Chum		1, 1, 1, 1,	751 128, 600 245 77 717, 497 307, 450 168, 741	244 210 22	\$119 \$12 \$119 \$2 2 2,708 0,416 8,357	Pound:	\$ Value	383, 1, 162, 3, 680, 195, 59, 24, 151, 4225, 223, 53, 192, 2, 226, 3, 664, 13, 217, 8, 791, 8, 791, 100, 100, 100, 100, 100, 100, 100, 1	ds 705 230 642 711 69 600 400 400 374 389 088 20 743 997 480 245 424 1, 085	$\begin{array}{c} \$11, 511\\ 62\\ 7, 167\\ 184, 036\\ 3\\ 4, 092\\ 82\\ 183, 822\\ 4, 254\\ 5, 292\\ 12\\ 2, 224\\ 4, 622\\ 112, 074\\ 514, 257\\ 374, 204\\ 514, 257\\ 374, 204\\ 190, 158\end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut Herring ''Lingcod'' Mackerel Perch Rockfish Sablefish Sablefish Sablefish Sablefish Blueback or sockeye Chinook Chum Humpback			751 128, 600 245 777 717, 497 307, 450 168, 741 739, 420	241 210 232	\$119 1, 286 5 2, 708 0, 416 8, 357 0, 956	Pound:	\$ Value	$\begin{array}{c} & 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \\ 3, 664, \\ 13, 217, \\ 8, 791, \\ 8, 791, \\ 33, 096, \\ 8, 791, \\ \end{array}$	ds 705 230 642 711 69 600 400 3389 088 20 743 997 480 245 424 1, 425 940	$\begin{array}{c} \$11, 511\\ 62\\ 7, 167\\ 184, 036\\ 3\\ 4, 092\\ 8\\ 8\\ 183, 820\\ 4, 254\\ 5, 292\\ 12, 224\\ 4, 622\\ 112, 074\\ 514, 267\\ 374, 204\\ 190, 155\\ 960, 590\end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish Halibut Halibut Herring "Lingcod" Mackerel Perch Rockfish Sablefish_		1, 1, 2, 1, 1,, 9,, 1, 1,, 9,, 1, 1,,	751 128,600 245 77 77 307,450 168,741 739,420 821,023	241 21 22 320 55	\$119 1, 286 5 2 2, 708 3, 416 8, 357 0, 956 8, 158	Pounds	\$ Value 	$\begin{array}{c} & 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \\ 3, 664, \\ 13, 217, \\ 8, 791, \\ 33, 096, \\ 12, 950, \\ 12, 950, \\ \end{array}$	ds 705 230 642 711 69 600 374 389 088 20 743 997 480 245 424 1, 940 359	\$11, 511 62 7, 167 184, 036 3 4, 092 8183, 822 4, 254 5, 292 12, 224 4, 625 112, 074 514, 257 374, 204 190, 158 960, 599 473, 258
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut Herring "Lingcod" Mackerel Pereh Rockfish Salmon: Blueback or sockeye Chinook Chimok Humpback Silver Sea bass, white, or squeteagu		1 1 1 1 1 1 1 1 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	751 128, 600 245 77 717, 497 307, 450 168, 741 739, 420 821, 023	244 210 22 322 53	\$119 1, 286 5 2 2, 708 0, 416 8, 357 0, 956 8, 158	Pounds	\$ Value:	$\begin{array}{c} 383,\\1,\\162,\\3,680,\\195,\\59,\\24,151,\\425,\\223,\\192,\\2,226,\\3,664,\\13,217,\\8,791,\\33,096,\\12,950,\\\end{array}$	ds 705 230 642 711 69 600 400 400 374 389 20 743 997 480 245 424 085 940 359 532	$\begin{array}{c} \$11, 511\\ 62\\ 7, 166\\ 184, 036\\ 8\\ 3\\ 4, 092\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders Grayfish Halibut Herring '' Linggod'' Mackerel Perch Rockfish Sablefish Sablefish Sablefish Sablefish Blueback or sockeye Chinook Chum Humpback Silver Sea bass, white, or squeteagu		1, 1, 2, 1, 2, 1, 9, 9, 1,	751 128, 600 245 77 717, 497 307, 450 168, 741 739, 420 821, 023	244 210 22 322 53	\$119 1, 286 5 2 2, 708 0, 416 8, 357 0, 956 8, 158	Pounds 750 5, 164 2, 100	\$ Value	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223, 53, 192, 2,226, 3,664, 13,217, 8,791, 33,096, 12,950, 888,	ds 705 230 642 711 69 600 374 389 20 245 424 424 4245 997 480 245 4245 1, 085 997 480 252 20 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 036\\ 3\\ 4, 092\\ 8\\ 183, 820\\ 4, 254\\ 5, 292\\ 1\\ 2, 224\\ 4, 625\\ 112, 074\\ 514, 257\\ 374, 204\\ 190, 155\\ 1960, 590\\ 473, 258\\ 12\\ 2, 710\end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish Halibut Herring " 'Lingcod '' Mackerel Perch Rockfish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Chinook Chinook Chum Humpback Silver Sea bass, white, or squeteagu Shad Skates	0		751 128, 600 245 777 717, 497 307, 450 168, 741 739, 420 821, 023	244 210 22 322 53	\$119 1, 286 5 2 2, 708 0, 416 8, 357 8, 356 8, 158	Pounds 750 5, 164 2, 100	\$ Value 	$\begin{array}{c} 383,\\1,\\162,\\3,680,\\195,\\59,\\24,151,\\425,\\223,\\53,\\192,\\2,226,\\3,664,\\13,217,\\8,701,\\33,096,\\12,950,\\88,\\7,7,\\7,7,\\7,7,\\7,7,\\7,7,\\7,7,\\7,7$	ds 705 230 642 711 69 600 374 389 088 20 743 997 480 245 424 480 245 940 359 359 532 767 210	$\begin{array}{c} \$11, 511\\ 62\\ 7, 166\\ 8\\ 8\\ 4, 030\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$
Carp	0.00 		751 128, 600 245 77 717, 497 307, 450 168, 741 739, 420 821, 023	244: 211 212 212 214: 214: 214: 214: 214	\$119 1, 286 5 2 2, 708 0, 416 8, 357 0, 956 8, 158 811	Pounds 750 5, 164 2, 100	\$ Value	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223, 53, 192, 2,226, 3,664, 13,217, 8,791, 33,096, 12,950, 8,8, 17, 1,78,	ds 705 230 642 711 69 600 400 374 389 907 480 245 424 085 940 359 532 767 210 551	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 036\\ 84\\ 902\\ 85\\ 183, 820\\ 4, 254\\ 5, 292\\ 102\\ 2, 224\\ 4, 622\\ 112, 074\\ 514, 255\\ 374, 204\\ 190, 155\\ 960, 590\\ 473, 252\\ 2, 710\\ 74\\ 28, 622\\ 85\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish Halibut Herring ''_Linggod'' Mackerel Perch Rockfish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Subeck or sockeye Chinook Chum Humpback Silver Sea bass, white, or squeteagu Shad Smelt Sole	0.00 0.00	1, 1, 2, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	751 128,600 245 77 717,497 307,450 168,741 739,420 821,023 10,136	244: 211 224: 322 50	\$119 \$119 1, 286 5 2 2, 708 0, 416 8, 357 0, 956 8, 158 811 1, 741	Pounds Pounds 750 5, 164 2, 100 500	\$ Value 	$\begin{array}{c} 383,\\ 1,\\ 162,\\ 3,680,\\ 195,\\ 59,\\ 24,151,\\ 425,\\ 223,\\ 53,\\ 192,\\ 2,226,\\ 3,664,\\ 13,217,\\ 8,791,\\ 33,096,\\ 12,950,\\ 88,\\ 7,\\ 1,178,\\ 119,\\ 119,\\ \end{array}$	ds 705 230 642 711 69 600 374 389 200 743 997 480 245 424 424 424 8085 997 480 245 532 767 210 551 904	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 036\\ 3\\ 4, 092\\ 8\\ 183, 820\\ 4, 254\\ 5, 292\\ 1\\ 2, 224\\ 4, 625\\ 112, 074\\ 514, 257\\ 374, 204\\ 190, 155\\ 960, 590\\ 473, 258\\ 18\\ 2, 710\\ 74\\ 28, 622\\ 3, 637\\ \end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish Halibut Herring " ' Mackerel Perch Rockfish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Shock Silver Sea bass, white, or squeteagu Shad States Steelhead trout	θ		751 128, 600 245 777 717, 497 707, 450 168, 741 739, 420 821, 023 10, 136 19, 344	244: 211 224: 322 50	\$119 \$119 1, 286 5 2 2, 708 0, 416 8, 357 0, 956 8, 158 811 1, 741	Pounds Pounds 750 5, 164 2, 100 500	\$ Value	$\begin{array}{c} 383,\\1,\\162,\\3,680,\\195,\\59,\\24,151,\\425,\\223,\\53,\\192,\\2,226,\\3,664,\\13,217,\\8,791,\\33,096,\\12,950,\\88,\\7,\\1,178,\\119,\\1400,\\149,\\140,\\1400,\\1$	ds 705 230 642 711 69 600 374 389 200 743 997 480 245 424 424 424 8085 997 480 245 532 767 210 551 904	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 036\\ 84\\ 902\\ 85\\ 183, 820\\ 4, 254\\ 5, 292\\ 102\\ 2, 224\\ 4, 622\\ 112, 074\\ 514, 255\\ 374, 204\\ 190, 155\\ 960, 590\\ 473, 252\\ 2, 710\\ 74\\ 28, 622\\ 85\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102\\ 102$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders frayfish Halibut Herring ''_Linggod'' Mackerel Perch Rockfish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Sablefish Subeck or sockeye Chinook Chum Humpback Silver Sea bass, white, or squeteagu Shad Smelt Sole	θ		128, 600 245 777 717, 497 307, 450 168, 741 739, 420 821, 023 10, 136 19, 344	244 211(2232) 50	\$119 1, 286 5 2 2, 708 3, 357 0, 956 8, 158 811 1, 741	Pounds 750 5,164 2,100 5500	\$ Value 	$\begin{array}{c} 383,\\1,\\162,\\3,680,\\195,\\59,\\24,151,\\425,\\223,\\53,\\192,\\2,226,\\3,664,\\13,217,\\8,791,\\33,096,\\12,950,\\8,7,\\1,3,917,\\8,791,\\33,096,\\12,950,\\8,8,7,\\1,19,9,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\1,400,\\84,\\119,\\119,\\119,\\110,\\110,\\110,\\110,\\110$	ds 705 230 642 711 69 600 400 374 389 088 20 743 997 480 245 424 480 245 940 359 359 532 767 767 767 767 767 767 767 711 711	$\begin{array}{c} \$11, 511\\ 62\\ 7, 167\\ 184, 036\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders flounders Hailbut "Lingcod" Mackerel Pereh Rockfish Salmon: Blueback or sockeye Chinook Chinook Chinook Chinook Chinoback Silver Sea bass, white, or squeteagu Shad Skates Smelt Sole tstugeon Tomcod Crabs	0		751 128,600 245 777 717,497 307,450 168,741 739,420 821,023 10,136 19,344 256,278	24: 24: 21: 22: 24: 21: 22: 22: 22: 22: 22: 22: 22: 22: 22	\$119 L,286 5 2 2,708 8,357 0,956 8,158 8,158 8,111 1,741	Pounds 750 5, 164 2, 100 5500 155	\$ Value 	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223, 53, 192, 2,226, 3,664, 13,217, 8,791, 33,096, 12,950, 88, 7, 1,178, 119, 1,170, 84, 1,145,	ds 705 230 642 711 69 600 374 389 240 374 389 243 424 424 424 424 424 424 424 425 424 424	$\begin{array}{c} \$11, 511\\ 62\\ 7, 167\\ 184, 036\\ 84\\ 902\\ 85\\ 183, 820\\ 4, 254\\ 5, 292\\ 102\\ 2, 224\\ 4, 622\\ 112, 074\\ 514, 257\\ 374, 204\\ 190, 155\\ 960, 590\\ 473, 258\\ 960, 590\\ 473, 258\\ 100, 902\\ 3, 637\\ 100, 902\\ 6, 798\end{array}$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders flounders Hailbut "Lingcod" Mackerel Pereh Rockfish Salmon: Blueback or sockeye Chinook Chinook Chinook Chinook Chinoback Silver Sea bass, white, or squeteagu Shad Skates Smelt Sole tstugeon Tomcod Crabs	0		751 128,600 245 777 717,497 307,450 168,741 739,420 821,023 10,136 19,344 256,278	24: 24: 21: 22: 24: 21: 22: 22: 22: 22: 22: 22: 22: 22: 22	\$119 L,286 5 2 2,708 8,357 0,956 8,158 8,158 8,111 1,741	Pounds 750 5, 164 2, 100 5500 155	\$ Value 	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223, 53, 192, 2,226, 3,664, 13,217, 8,791, 33,096, 12,950, 8,8, 1,178, 119, 1,400, 84, 1,145,	ds 705 230 642 400 374 389 20 743 997 480 245 424 997 480 245 940 359 940 359 767 2551 904 973 057 784 540 657	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 033\\ 2\\ 4, 099\\ 83\\ 183, 820\\ 12, 222\\ 4, 624\\ 112, 074\\ 514, 255\\ 374, 204\\ 112, 074\\ 514, 265\\ 374, 204\\ 112, 074\\ 514, 265\\ 374, 204\\ 112, 074\\ 514, 265\\ 374, 204\\ 112, 074\\ 514, 265\\ 374, 204\\ 122, 222\\ 4, 622\\ 112, 074\\ 122, 222\\ 4, 622\\ 112, 074\\ 122, 222\\$
Carp Catfish Cod, fresh Cod, salted Dolly Varden trout Flounders flounders Hailbut "Lingcod" Mackerel Pereh Rockfish Salmon: Blueback or sockeye Chinook Chinook Chinook Chinook Chinoback Silver Sea bass, white, or squeteagu Shad Skates Smelt Sole tstugeon Tomcod Crabs	0		751 128,600 245 777 717,497 307,450 168,741 739,420 821,023 10,136 19,344 256,278	24: 24: 21: 22: 24: 21: 22: 22: 22: 22: 22: 22: 22: 22: 22	\$119 L,286 5 2 2,708 8,357 0,956 8,158 8,158 8,111 1,741	Pounds 750 5, 164 2, 100 5500 155	\$ Value 	383, 1, 162, 3,680, 195, 59, 24,151, 425, 223, 53, 192, 2,226, 3,664, 13,217, 8,791, 33,096, 12,950, 8,8, 1,178, 119, 1,400, 84, 1,145,	$\begin{array}{c} ds \\ 705 \\ 230 \\ 642 \\ 711 \\ 69 \\ 600 \\ 374 \\ 389 \\ 20 \\ 20 \\ 245 \\ 424 \\ 80 \\ 245 \\ 424 \\ 4085 \\ 539 \\ 532 \\ 559 \\ 532 \\ 551 \\ 904 \\ 973 \\ 057 \\ 784 \\ 540 \\ 657 \\ 685 \\ \end{array}$	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 033\\ 2\\ 4, 095\\ 8\\ 183, 820\\ 4, 255\\ 5, 292\\ 4, 624\\ 112, 074\\ 514, 255\\ 374, 203\\ 190, 155\\ 374, 203\\ 190, 155\\ 374, 203\\ 190, 155\\ 374, 203\\ 190, 155\\ 374, 203\\ 190, 155\\ 374, 203\\ 190, 155\\ 374, 203\\ 100, 905\\ 6, 799\\ 473, 255\\ 3, 633\\ 100, 905\\ 6, 799\\ 11\\ 54, 384\\ 4, 504\\ 17, 276\\ 17, 276\\ 17, 276\\ 100, 905\\ 11\\ 100, 100\\ 100$
Carp	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		751 128, 600 245 777 717, 497 307, 450 168, 741 739, 420 821, 023 10, 136 19, 344 256, 278 3, 100	24: 24: 21: 22: 32: 32: 32: 32: 32: 32: 32: 32: 32	\$119 1,286 5 2 2,708 3,357 0,956 8,158 8,158 8,111 1,741 0,032 62	Pounds 750 5, 164 2, 100 155	\$ Value 	$\begin{array}{c} 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \\ 3, 664, \\ 13, 217, \\ 8, 791, \\ 33, 096, \\ 12, 950, \\ 88, \\ 7, \\ 1, 178, \\ 119, \\ 1, 400, \\ 84, \\ 1, 145, \\ 344, \\ 598, \\ 983, \\ 244, \\ 1, 145, \\ 344, \\ 983, \\ 344, \\ 983, \\ 983, \\ 19, \\ 1, 145, \\ 344, \\ 983, \\ 344, \\ 983, \\ 983, \\ 1, 145, \\ 344, \\ 983, \\ 983, \\ 1, 145, \\ 344, \\ 983, \\ 983, \\ 1, 145, \\ 344, \\ 983, \\ 983, \\ 1, 145, \\ 344, \\ 983, \\ 1, 145, \\ 344, \\ 983, \\ 1, 145, \\ 344, \\ 983, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 344, \\ 1, 145, \\ 1, 145, \\ 344, \\ 1, 145, \\ 1$	$\begin{array}{c} ds \\ 7705 \\ 230 \\ 642 \\ 711 \\ 69 \\ 600 \\ 374 \\ 389 \\ 20 \\ 743 \\ 389 \\ 220 \\ 743 \\ 997 \\ 480 \\ 245 \\ 424 \\ 480 \\ 245 \\ 940 \\ 359 \\ 532 \\ 767 \\ 210 \\ 551 \\ 904 \\ 973 \\ 907 \\ 784 \\ 657 \\ 685 \\ 540 \\ 657 \\ 685 \\ 900 \\ \end{array}$	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 036\\ 84\\ 93\\ 84\\ 93\\ 83\\ 820\\ 83\\ 820\\ 83\\ 820\\ 83\\ 820\\ 82\\ 83\\ 820\\ 82\\ 83\\ 820\\ 83\\ 820\\ 82\\ 83\\ 820\\ 83\\ 83\\ 820\\ 83\\ 83\\ 83\\ 83\\ 83\\ 84\\ 83\\ 84\\ 84\\ 84\\ 84\\ 84\\ 84\\ 84\\ 84\\ 84\\ 84$
Carp	0		751 128,600 245 77 777,497 307,450 188,741 739,420 821,023 10,136 19,344 256,278 3,100	244 211 224 232 322 50	\$119 1,286 5 2 2,708 8,357 9,966 8,158 8,158 8,11 1,741 0,032 62	Pounds 750 5, 164 2, 100 155	\$65 723 105 	$\begin{array}{c} 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \\ 3, 664, \\ 13, 217, \\ 8, 791, \\ 33, 096, \\ 12, 950, \\ 7, \\ 1, 178, \\ 8, \\ 119, \\ 145, \\ 34, \\ 598, \\ 983, \\ 2, 739, \\ 2, 2, 2, \\ 2, 2, 226, \\ 3, 664, \\ 13, 217, \\ 33, 096, \\ 14, 425, \\ 34, \\ 145, \\ 34, \\ 983, \\ 2, 739, \\$	ds 705 230 642 711 69 600 374 389 20 743 997 480 245 424 424 997 480 245 532 767 2551 904 973 977 784 540 057 784 540 057 784 540 960 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,	$\begin{array}{c} \$11, 511\\ 6.7, 16.\\ 7, 16.\\ 184, 033\\ 84, 036\\ 84,$
Carp	0		128, 600 245 77 717, 497 707, 450 168, 741 739, 420 821, 023 10, 136 19, 344 256, 278 3, 100	244 210 224 322 32 32 50	\$119 1,286 5 2 2,708 3,357 0,956 8,158 811 1,741 0,032 62	Pounds 750 5,164 2,100 155	\$ Value 	$\begin{array}{c} 383,\\1,\\162,\\3,680,\\195,\\59,\\24,151,\\425,\\223,\\53,\\192,\\2,226,\\3,664,\\13,217,\\8,701,\\33,096,\\12,950,\\88,\\11,9,\\33,096,\\12,950,\\88,\\1,145,\\88,\\1,145,\\84,\\1,145,\\983,\\2,739,\\347,\\347,\\347,\\347,\\347,\\347,\\347,\\347$	$\begin{array}{c} ds \\ 705 \\ 230 \\ 642 \\ 711 \\ 69 \\ 600 \\ 374 \\ 389 \\ 20 \\ 20 \\ 743 \\ 389 \\ 997 \\ 480 \\ 245 \\ 424 \\ 424 \\ 4085 \\ 540 \\ 559 \\ 532 \\ 559 \\ 552 \\ 551 \\ 904 \\ 973 \\ 057 \\ 767 \\ 210 \\ 551 \\ 904 \\ 973 \\ 057 \\ 784 \\ 540 \\ 657 \\ 685 \\ 900 \\ 960 \\ 9250 \\ \end{array}$	$\begin{array}{c} \$11, 511\\ 62\\ 7, 165\\ 184, 036\\ 84\\ 903\\ 84\\ 903\\ 84\\ 903\\ 83\\ 82\\ 82\\ 92\\ 92\\ 92\\ 92\\ 92\\ 92\\ 92\\ 92\\ 92\\ 9$
Carp	0		128, 600 245 77 717, 497 707, 450 168, 741 739, 420 821, 023 10, 136 19, 344 256, 278 3, 100	244 210 224 322 32 32 50	\$119 1,286 5 2 2,708 3,357 0,956 8,158 811 1,741 0,032 62	Pounds 750 5,164 2,100 155	\$ Value 	$\begin{array}{c} 383,\\1,\\162,\\3,680,\\195,\\59,\\24,151,\\425,\\223,\\53,\\192,\\2,226,\\3,664,\\13,217,\\8,701,\\33,096,\\12,950,\\88,\\11,9,\\33,096,\\12,950,\\88,\\1,145,\\88,\\1,145,\\84,\\1,145,\\983,\\2,739,\\347,\\347,\\347,\\347,\\347,\\347,\\347,\\347$	$\begin{array}{c} ds \\ 7705 \\ 230 \\ 642 \\ 711 \\ 69 \\ 600 \\ 374 \\ 389 \\ 20 \\ 743 \\ 389 \\ 220 \\ 743 \\ 997 \\ 480 \\ 245 \\ 424 \\ 480 \\ 245 \\ 940 \\ 3559 \\ 9359 \\ 532 \\ 767 \\ 7210 \\ 551 \\ 904 \\ 973 \\ 907 \\ 784 \\ 657 \\ 685 \\ 540 \\ 657 \\ 685 \\ 540 \\ 657 \\ 685 \\ 540 \\ 900 \\ 900 \\ 900 \\ 950 \\ 250 \\ 550 \\ \end{bmatrix}$	$\begin{array}{c} \$11, 511\\ 67, 167\\ 7, 167\\ 184, 036\\ 88\\ 183, 820\\ 83, 820\\ 83, 820\\ 183, 820\\ 183, 820\\ 183, 820\\ 183, 820\\ 192, 222\\ 4, 622\\ 112, 073\\ 514, 257\\ 374, 200\\ 112, 073\\ 514, 257\\ 374, 200\\ 190, 155\\ 960, 590\\ 473, 256\\ 874, 200\\ 190, 155\\ 960, 590\\ 473, 256\\ 112, 073\\ 122, 222\\ 4, 622\\ 112, 073\\ 122, 222\\ 4, 622\\ 112, 073\\ 122, 222\\ 4, 622\\ 112, 073\\ 122, 222\\ 4, 622\\ 112, 073\\ 122, 222\\ 4, 622\\ 112, 073\\ 122, 222\\ 4, 622\\ 112, 073\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 4, 622\\ 122, 222\\ 122,$
Carp	0		751 128,600 245 77 777,497 307,450 168,741 739,420 821,023 10,136 19,344 256,278 3,100	244 211 224 211 224 322 50 	\$119 1,286 5 2 2,708 8,357 9,956 8,158 8,158 8,11 1,741 0,032 62	Pounds 750 5, 164 2, 100 155	\$65 723 105 	$\begin{array}{c} 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \\ 3, 664, \\ 13, 217, \\ 8, 791, \\ 33, 096, \\ 12, 950, \\ 7, \\ 1, 738, \\ 119, \\ 145, \\ 34, \\ 598, \\ 2, 739, \\ 347, \\ 1, 375, \\ 744, \\ 7, \\ 744, \\ 574, \\ 7, \\ 744, \\ 7, \\ 744, \\ 7, \\ 744, \\ 7, \\ 7$	ds 705 230 642 711 69 600 374 389 200 743 8997 480 245 424 424 997 480 245 532 5767 2551 904 973 977 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 540 057 784 550 900 907 784 550 907 784 550 907 784 550 906 907 784 550 907 784 550 907 784 550 906 907 784 550 906 907 784 550 906 907 784 550 906 906 907 784 550 900 907 784 550 900 907 784 550 900 907 784 550 900 907 784 550 900 905 906 905 907 784 550 900 905 906 905 905 904 905 905 905 904 905 905 905 904 905 905 905 906 905 906 905 906 905 906 905 906 905 906 905 906 905 906 906 906 906 906 907 784 550 900 906 906 906 906 906 906 90	$\begin{array}{c} \$11, 511\\ 6.7, 16.\\ 7, 16.\\ 184, 033\\ 8.\\ 8.\\ 8.\\ 8.\\ 8.\\ 8.\\ 8.\\ 8.\\ 8.\\ 8.$
Carp	θ		128, 600 245 777 717, 497 307, 450 168, 741 739, 420 821, 023 10, 136 19, 344 256, 278 3, 100	244 211 224 210 224 210 224 210 20 24 20 20 20 20 20 20 20 20 20 20 20 20 20	\$119 1,286 5 2 2,708 8,357 9,956 8,158 8,158 8,11 1,741 0,032 62	Pounds 750 5, 164 2, 100 155	\$65 723 105 	$\begin{array}{c} 383, \\ 1, \\ 162, \\ 3, 680, \\ 195, \\ 59, \\ 24, 151, \\ 425, \\ 223, \\ 53, \\ 192, \\ 2, 226, \\ 3, 664, \\ 13, 217, \\ 8, 791, \\ 33, 096, \\ 12, 950, \\ 7, \\ 1, 738, \\ 119, \\ 145, \\ 34, \\ 598, \\ 2, 739, \\ 347, \\ 1, 375, \\ 744, \\ 7, \\ 744, \\ 574, \\ 7, \\ 744, \\ 7, \\ 744, \\ 7, \\ 744, \\ 7, \\ 7$	$\begin{array}{c} ds \\ 7705 \\ 230 \\ 642 \\ 711 \\ 69 \\ 600 \\ 374 \\ 389 \\ 20 \\ 743 \\ 389 \\ 220 \\ 743 \\ 997 \\ 480 \\ 245 \\ 424 \\ 480 \\ 245 \\ 940 \\ 3559 \\ 9359 \\ 532 \\ 767 \\ 7210 \\ 551 \\ 904 \\ 973 \\ 907 \\ 784 \\ 657 \\ 685 \\ 540 \\ 657 \\ 685 \\ 540 \\ 657 \\ 685 \\ 540 \\ 900 \\ 900 \\ 900 \\ 950 \\ 250 \\ 550 \\ \end{bmatrix}$	$\begin{array}{c} \$11, 511\\ 6.7, 16.\\ 7, 16.\\ 184, 033\\ 84, 036\\ 84,$

Yield of the vessel	fisheries of	Washington	in 1923,	by counties and	species
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Grays H	larbor	Isla	nd	Jeffe	rson	Kir	ıg
Pounds					Value	Pounds 149, 284 1, 356, 711	Value \$6,778 67,836
		4,200	\$42	1,000	\$123	357 22, 311, 314 74, 820	11 2, 942, 670 749 4, 979
					******	6, 247 164, 662 2, 174, 980	293 4, 054 109, 364
8,904 2,360 97,468 309,660 49,960	$$1,253 \\ 212 \\ 2,069 \\ 10,109 \\ 1,266$	822 1, 980 18, 170 85, 510 21, 856	116 177 436 2, 679 629	11, 400 22, 934 4, 200	1, 227 552 126	$195,000\\20,470\\1,539,695\\.3,100,805\\843,849\\105$	27, 325 1, 864 34, 286 99, 039 24, 560
						4, 145 256 380	120 164 21 46
347, 250	18, 500 91, 500				*******		
2, 935, 102	143, 419	132, 538	4,079	39, 534	2,028	32, 152, 099	3, 324, 160
	Pounds 	8,904 \$1,253 2,360 212 97,468 2,069 309,660 10,109 49,960 1,266 347,250 18,500 1,375,500 91,500 744,000 18,510	Pounds Value Pounds Pounds Value Pounds	Pounds Value Pounds Value Pounds Value Pounds Value	Orazis Harton Pounds Value Pounds Value Pounds Pounds Pounds Value Pounds Value Pounds Value Pounds	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

Species	Kits	ар	Pier	807	San J	uan	Skag	nt merie
	Pounds	Value	Pounds	Value	Pounds		Pounds	Value
Cod, fresh		\$24					2, 324, 000	\$116, 200
Flounders Halibut	96 210, 139 44, 200	$ \begin{array}{r} 2 \\ 31,062 \\ 442 \end{array} $	1, 118, 210	\$145, 767				
Herring. "Lingcod"	1,675	34	1,000					
Perch Rockfish Sablefish	949 4, 500	19 360	47,000	2,350				*******
Salmon: Blueback or sockeye	110,006	15, 420	310, 152	43, 360			19,950	2,795
Chinook Chum Humpback	56, 868 700, 160 1, 992, 623	5, 118 17, 199 63, 169	20, 860 1, 336, 374 4, 764, 068	1,849 32,195 150,110	31, 414	\$770	1, 989 320, 285 430, 291	7,784
Silver	396, 780	11, 417	838, 616	23, 805		69	126, 960	3, 689
Sole	34, 327	1,030	181				190 96	6
Steelhead trout Crabs Shrimp.		918					12, 760	638
Total	3, 564, 714	146, 489	8, 436, 461	399, 470	33, 814	839	3, 236, 521	145, 192

Species	Snoho	mish	What	com	Tot	al
Cod. fresh		Value		Value	Pounds 150, 484	Value \$6, 802
Cod, salted Flounders					3, 680, 711	184, 036
Halibut Herring "Lingcod"			49, 600	\$496	23, 640, 663 172, 820 210, 199	3, 119, 622 1, 729 5, 033
Perch Rockfish					7, 667 165, 611	350
SablefishSalmon:					2, 226, 480	112,074
Blueback or sockeye Chinook Chum Humpback Silver Skate.	25,360 589,193 1,690,430 326,616	\$13, 354 2, 270 14, 748 53, 383 9, 434 10	$100,978 \\ 12,961 \\ 844,608 \\ 1,831,745 \\ 201,593$	$13, 162 \\ 1, 148 \\ 20, 254 \\ 57, 367 \\ 5, 819$	833, 664 154, 248 5, 500, 301 14, 205, 132 2, 812, 830 1, 105	116, 785 14, 042 130, 293 449, 752 80, 814 11
SmeltSole			8, 541	683	12, 680 38, 662	1,015 1,200
Steelhead trout Sturgeon	54	5	104	9	755	62 46
Crabs Shrimp	17, 578	1	1		34, 958 7, 063	1,748
Sperm oil Whale oil Other whale products	term and a second s		A REAL PROPERTY AND A REAL	Contraction of the second second	347, 250 1, 375, 500	18, 500 91, 500
						18, 510
Total	2, 738, 083	94, 083	3, 054, 750	99, 169	56, 323, 616	4, 358, 928

Yield of the shore fisheries of Washington in 1923, by counties and species

Species	Aso	tin	Ben	ton	Clall	am	Clar	Clarke	
0	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Carp Cod					463	\$14	190, 080	\$5, 702	
Dolly Varden trout					38	1		0.010(67)	
Halibut					500, 220	62, 535			
"Lingcod"					62	1			
Salmon: Blueback or sockeye	4,000	\$540	181	19			84, 324	11, 385	
Chinook	8, 609	1,205			651, 498	66, 638	307, 636	43, 198	
Chum					4,602	116	13,841	139	
Silver					765, 901	34, 225	61, 436	3,073	
Shad							31, 414	471	
Smelt Steelhead trout	19, 592	1,371			6, 802 2, 080	544 187	9,700 58,484	97 4,095	
Sturgeon		1, 3/1	330	\$26	2,000	107	8,682	4,095	
Crabs	210		000	φ20	57,134	2,857	0,002	. 034	
Octopus					42,064	1, 262			
Total	32, 419	3, 133	330	26	2,030,864	168, 380	765, 597	68, 854	
			1						

Species	Cow	vlitz Garfie		field Gra		ant	Grays Harbor	
Carp	Pounds	Value	Pounds	Value	Pounds 193, 625	Value \$5, 809	Pounds	Value
Salmon:			1		100, 020	φ0, 000		
Blueback or sockeye	225,009	\$30, 376	1.596	\$215			6,345	\$857
Chinook	435, 622	60, 847	360	32			1, 146, 401	58, 420
Chum	148, 823	1,489					1, 430, 375	21, 783
Humpback							829,033	69,079
Silver	172, 910	8,648	2,880	144			1, 187, 528	36, 133
Shad	5, 385	81					189	3
Smelt	901, 495	9,014						
Steelhead trout	144, 345	10, 105					6, 499	608
Sturgeon	7, 206	574					7,727	605
Crabs							64, 724	3,136
Clams, razor							639, 138	28, 762
Total	2, 040, 795	121, 134	4,836	391	193, 625	5, 809	5, 317, 959	219, 386

Species	Isla	nd	Jeffe	rson	Kin	ıg 🛩	Kitsar)
Catfish	Pounds	Value	Pounds	Value	Pounds	Value \$62	Pounds	Value
Cod Dolly Varden trout	918 16	\$27 1			7, 150	215	1, 547 15	\$47
Flounders Grayfish Halibut	6, 097 53, 400 48	124 70			48, 238 6, 000	965 15	18, 078	535
Herring "Lingcod"	761 430 20	89			$101,848\\4,642$	1, 018 93	64, 730 120	647 2
Mackerel Perch Rockfish	6, 360 7, 584	254 153			3, 159 2, 020	$\begin{array}{c} 126\\ 40\end{array}$	13, 284 5, 772	564 116
Salmon: Blueback or sockeye Chinook	326, 306 174	33, 413 4	19, 398 176, 974 828	\$2,755 18,136 21	37, 755 1, 751, 304	5,361 165,426	2, 754 314, 186	391 32, 174
Chum Humpback Silver Sea bass, white or squeteague	80 257, 948	3 12,096	251, 720 202, 933	8, 390 9, 644	512, 453 6, 705, 150 1, 810, 412 6	12, 811 56, 833 65, 395 1	5, 245 334, 234	175 15,450
ShadSkate	295				69 5, 135	$\frac{1}{3}$	145	3
Smelt	4.524	2, 722 136	3, 565	285	40, 438	1,213	46, 512 15, 236	3, 646 457
Steelhead trout Sturgeon Tomcod			48	4	28, 072 1, 540	2, 526 139	1, 165 510	105 10
Crabs	35,420	1, 769	1, 386	69	62, 942	3, 147	9,658 6,079	483 790
Shrimp Clams, hard Clams, razor	18, 860	407	65, 935 54, 425	$1,318 \\ 2,449$	30, 230	1, 209	404, 100	11,221
Octopus	189	6	3, 890	117	1, 781	53	1, 589	48
Total	775, 524	51, 217	781, 102	43, 188	11, 161, 574	316, 702	1, 244, 959	66, 865

Yield of the shore fisheries of Washington in 1923, by counties and species-Contd.

Species	Klick	citat	Mas	son	Okano	ogan	Pacific		
- oracle - Relation -	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Cod			46	\$1					
Flounders			115	2					
"Lingcod"			16	1					
Perch			16, 810	672			550	\$22	
Rockfish			941	19					
Salmon:		0.000				arrive a	021 570	21 000	
Blueback or sockeye	2,937	\$406					231, 572	31,262 267,419	
Chinook	27,250	3,097	4, 167	427			2,001,173		
Chum	12,919	130		198			259,099	4,674	
Silver	203, 328	8,000	4, 166	199			1, 107, 557	52,749	
Shad			05 400	9 017			43, 238	1,977	
Smelt			25,420	2,017				********	
Sole	101 005	10 500	1, 240	01			454, 424	31, 815	
Steelhead trout		12, 508			720	\$58	22,019	1, 762	
Sturgeon		572			120	000	213, 158	10, 648	
Crabs			2,880	374			210, 100	10,010	
Shrimp				463					
Clams, hard			11, 569	200			287,686	12,945	
Clams, razor			300,000	28,000			201,000	12,010	
Oysters			500,000	20,000					
Total	414, 541	24,713	367, 370	32, 211	720	58	4, 620, 476	415, 273	

Species	Pier	ce	San J	uan	Ska	Skam	ania	
Cod Flounders		Value \$19 15	Pounds 44	Value \$1	Pounds 1, 360 437	Value \$41 9	Pounds	
Halibut Herring			1, 200	190	8,492 6,030	1, 347 60		
"Lingcod" Perch	295		3, 913	78	2, 571	51		
Rockfish Salmon:		6	9, 137	183	1, 159	24		
Blueback or sockeye Chinook	552 200, 396	78 20, 530	59,976 217,226	8, 516 21, 518	392,400 1,610,282	56, 241 146, 692	9, 362 29, 723	\$1, 263 4, 161
Chum Humpback	305 2,180	8 73	23, 103 258, 505	578 8, 616	267, 405 2, 928, 475	6,738 103,955	12,072	121
Silver Sea bass, white, or squeteague	204, 666 88	9,640 2	310, 241	12,079	1, 131, 793 277	36, 647 6	14, 393	719
ShadSkate	500	5		********	220 30	11 1	233	3
SmeltSole	18,300	$1,075 \\ 549$		46	1,460	698 44		
Steelhead trout				1	22, 088 4, 145	1, 988 373	32, 192 4, 813	2, 253 386
Tomcod Crabs	594	30 30			353, 870	17,694		
Shrimp Clams, hard	57,240	$319 \\ 2,290$			7, 251	1,697 290		
Oysters Octopus		38	200	6	99, 960 1, 206	5,000 37		
Total	508, 719	34, 849	884, 140	51, 812	6, 862, 682	379, 644	102, 788	8,906

Species	Snoho	mish	Thurs	ston	Wahki	akum	Walla	Walla
Flounders	Pounds 121, 314 200	Value \$2,427	Pounds 120	Value \$2	Pounds	Value	Pounds	Value
"Lingcod" Perch Rockfish Salmon:	594 1,822 401	13 73 9						
Blueback or sockeye Chinook Chum Humpback	7,680 235,503 22,971 3,745	891 23, 588 574 125	37, 503	3, 843	127, 652 1, 281, 404 257, 681	\$17, 324 179, 407 2, 576		
SilverShad	271, 472	11, 645	37, 494	1, 781	434, 509 8, 019	21, 724 161	198	\$10
Smelt Sole	4, 302 44	344	87, 394	6, 992				
Steelhead trout Sturgeon Crabs		3,002	120222222		451, 633 17, 380	31, 612 1, 391	475	38
Shrimp Clams, hard		16	3, 124	406				
Clams, razor Oysters			2, 340, 000	234,000	2, 651	119		
Octopus	208	6						
Total	730, 694	42, 716	2, 505, 635	247, 024	2, 580, 929	254, 314	673	48

Yield of the shore fisheries of Washington in 1923, by counties and

Species	What	com	Whit	man	Tot	al
Carp	Pounds	Value	Pounds	Value	Pounds 383, 705	Value \$11, 511
Catfish Cod					1,230 12,158	61 361
Dolly Varden trout Flounders					69	1
Flounders Gravfish					195, 147 59, 400	4,079
Halibut	751				510, 711	64, 198
Herring "Lingcod"		790 5			252, 569 12, 889	2, 525 259
Mackerel Perch					20 46,076	1,874
RockfishSalmon:	77	2			27, 386	555
Blueback or sockeye	1, 616, 519	229, 546	750	\$65	2, 830, 581	397, 472
Chinook	2, 294, 489 324, 133	209, 268 8, 103	5, 164	723	13,063,176 3,290,784	1,360,162 59,863
Humpback	7, 907, 675	263, 589		11274	18, 891, 808	510, 838
Silver	1, 619, 430	52, 339	2,100	105	10, 137, 529	392, 444
Sea bass, white, or squeteague Shad					532 88, 767	2, 710
Skate					6, 105	63
SmeltSole	1, 595	128			1, 165, 871	27, 608
Steelhead trout	19, 240	1, 732	500 155	$\frac{35}{12}$	81, 242 1, 400, 218 83, 677	2,437 100,840 6,755
Tomcod Crabs				10000	784	13
CrabsShrimp	251, 658	9,801	10101000	101111	1,110,582 27,594	52, 636 3, 586
Clams, hard	3, 100	62			598, 685 983, 900	17,270
Oysters Octopus					2, 739, 960 52, 377	267, 00 1, 57
Total	14, 117, 912	775, 484	8,669	940	58, 055, 532	3, 333, 07

OREGON

The fisheries of Oregon in 1923 employed 4,230 fishermen, 3 vessels, 2,042 power boats, 218 rowboats, and yielded 32,982,678 pounds of fish valued at \$3,500,171, of which 161,659 pounds, valued at \$9,293, consisting of halibut and salmon, were caught by 3 vessels sailing from Clatsop County. These vessels had a total net tonnage of 44 and carried a total of 15 fishermen. Two of them operated lines and one was a purse seiner.

The following tables give the number of boats using each kind of fishing apparatus, by counties, the number of fishermen by counties, and the total catch of the fisheries of Oregon by species and counties:

Boats (by apparatus) and persons engaged in the shore fisheries of Oregon in 1923, by counties

Boats, by apparatus	Clack- mas	Clat- sop	Colum- bia	Coos	Curry	Doug- las	Hood River
Gill nets, drift, gas Gill nets, set:	32	694	258	48	64	106	5
Gas Row	9 10	, 19 16	5 12	29 23	4 2	39 62	3
Haul seines: Gas Row	1,318,	11	(001,61 	3	2		la Ma Canal La Maria
Pound nets, gas Lines, gas		15 50	5	2	2	5	1
Drag bag nets, gas Ring nets, gas		22	5 .	14		33	Central Cignus D
Total: 1 Gas Row	33 10	790 23	265 14	83 24	69 3	151 62	84
Persons engaged	75	1, 653	529	166	140	345	19

¹ Exclusive of duplication.

69239-26†-9

Boats, by apparatus	Jack- son	Joseph- ine	Lane	Lin- coln	Mult- nomah	Tilla- mook	Wasco	Total
Gill nets, drift, gas	2	16	22	67	143	140	11	1,608
Gill nets, set: Gas Row			27 15	81 12	18 14	129 31	1	364 201
Haul seines: Gas Row Row					333		1 1	24 18 19
Pound nets, gas Lines, gas Drag bag nets, gas			2	2	6			72 5
Fish wheels, gas Ring nets, gas Tongs and dredges, scows ¹			4	71 15	1	32		1 176 15
Total: ² Gas. Row	2	16	42 15	175 27	166 19	230 31	12 1	2, 042 233
Persons engaged	4	32	90	301	373	473	30	4, 230

Boats (by apparatus) and persons engaged in the shore fisheries of Oregon in 1923, by counties-Continued

¹ Exclusive of duplication.
 ² In addition to the above there were 30 men and 30 gas boats fishing crab traps on the Molalla, Columbia, Willamette, and Yamhill Rivers, which could not be divided by counties.

Species	Species Clackamas		Cla	tsop	Colur	nbia	Coos		
Halibut Herring			Pounds 369, 600 15, 625	Value \$56, 926 313	Pounds	Value	Pounds 70, 653	Value \$11, 304	
"Lingcod" Rockfishes Salmon:				1, 993 781			31, 256	938	
Chinook Chum		\$87, 913	8, 160, 331 281, 342	1, 142, 445 3, 381	2, 421, 169 127, 983	\$338, 972 1, 279	444, 008 15, 704	62, 162 157	
Humpback Silver Sockeye	48, 068 352	48	50, 105 1, 083, 832 514, 862	1, 570 53, 787 69, 512	71, 484 629, 350	3, 574 84, 962	422, 464	21, 123	
Shad Smelt	168	3	45, 097	679	171, 285 27, 195	2,570 271	3, 114	46	
Steelhead trout Sturgeon Tomcod	324	942 25	825, 561 60, 709 5, 000	57, 926 4, 856 400	308, 959 18, 966	21, 626 1, 517	166, 642 918	11, 664 73	
Crabs Clams, razor			5, 368	698 6, 180	-ngi tribbri		20, 592	2, 677	
Clams, soft Octopus					71	4	7, 249	327	
Total	690, 311	91, 334	11, 647, 211	1, 401, 447	3, 776, 462	454, 775	1, 182, 600	110, 471	

Yield of the fisheries of Oregon in 1923 by counties and species

Species Cu		rry	Doug	glas	Hood	River	Josephine	
Salmon: Chinook Chum	Pounds 1, 120, 753	Value \$156, 905	Pounds 427, 899 40, 476	Value \$59, 907 405	Founds 26, 216 9, 525	Value \$3, 670 95	<i>Pounds</i> 100, 146	
Suver Sockeye	14, 100	705	1, 318, 540	65, 927	6, 394 5, 274	320 712		
Shad Steelhead trout Sturgeon Crabs	42, 452	2, 971	148, 038 202, 949 8, 164	2, 221 14, 206 653	376 16, 476 628	6 1, 153 50		
Clams, soft			98, 396 300	12, 791 14				
Total	1, 177, 305	160, 581	2, 244, 762	156, 124	64, 889	6,006	100, 146	14, 020

Trefosive of supplication,

Yield of the fisheries of Oregon in 1923 by counties and species-Continued

Species	Jacl	Jackson		ne	Linc	oln	Multnomah		
Flounders	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	
Halibut Herring					5,000 176,630 78,125	\$150 28, 261 1, 563	247, 283	\$39, 56	
"Lingcod" Perch					11, 072 15, 000	332 750			
Rockfishes Sabelfish Salmon:							5, 208 250, 000	156 12, 500	
Chinook Chum		\$3, 303	105, 820 7, 884	\$14, 824 79	646, 982 98, 392	90, 578 985	1, 950, 744 16, 849	273, 103	
Silver Sockeye			357, 670	17, 884	1, 133, 418	56, 671	359, 876 844, 436	17, 993 114, 051	
Shad Shad roe Smelt		1	5, 354	81	430	6	29, 253 662	439	
Steelhead trout	4,492	314 80	35, 864	2, 510	204, 560 134	14, 479 11	250,000 618,594 29,763	2, 500 43, 302 2, 381	
Crabs Clams, soft			7,992	1, 039	168, 354	21, 886	3, 967	179	
Oysters, native, private					19, 200	16,800			
Total	29, 162	3, 698	520, 584	36, 417	2, 557, 297	232, 472	4, 606, 635	506, 35	

Species	Tillar	nook	Wa	ISCO	Total		
Flounders	Pounds	Value	Pounds	Value	Pounds 5,000	Value \$150	
Halibut					864, 166	136,056	
Herring					93 750	1,876	
"Lingcod"					77, 500	2, 325	
Perch					15,000	750	
Rockfishes					62, 510	1,875	
Sablafish					250,000	12, 500	
SablefishSalmon:					200,000	12,000	
Chinook	057 139	\$134,000	348 156	\$48, 742	17, 360, 898	2, 430, 544	
Chum		5,006	010, 100	φ10, 112	1, 086, 163	11, 556	
Humpback	400,000	0,000			50, 105	1, 570	
Silver	1 702 994	89,666	107, 532	5, 377	6, 716, 662	335, 430	
Suver	1, 195, 204		61, 569	8, 312	2, 065, 031	278, 837	
Sockeye	9, 188		01, 309	0, 312	403, 197	6,052	
Shad					403, 197	0,032	
Shad roe					277, 195	2,771	
Smelt	050 040	10 110	150 007	10 000			
Steelhead trout		18, 119	156, 697		2,855,543	200, 181	
Sturgeon			3, 521	282	124, 121	9,928	
Tomcod					5,000	400	
Crabs		8, 646			359, 283	47, 737	
Clams, razor					137, 305	6, 180	
Clams, soft	20, 200					1, 429	
Oysters, native, private					19, 200	16, 800	
Octopus			•••••		11	4	
Total	3, 585, 239	257, 586	677, 475	73, 682	1 32, 860, 078	1 3, 504, 971	

¹ In addition to the above there were caught in the Molalla, Willamette, Columbia, and Yamhill Rivers 141,800 pounds of crawfish, valued at \$12,000, bringing the grand total to 33,001,878 pounds, valued at \$3,516,971.

CALIFORNIA

The fisheries of California in 1923 employed 4,594 fishermen, 285 vessels, 1,306 power boats, and 135 sail and row boats, and yielded 262,523,771 pounds of fishery products, valued at \$7,722,800. This includes the fisheries prosecuted by California fishermen in waters off the coast of Mexico, the total yield of which amounted to 23,954,-007 pounds, valued at \$1,479,447, in 1923.

The vessel fishery of California employed 1,972 fishermen, sailing on 285 vessels, all of which were gas vessels excepting 11 sailing from San Francisco. Of these 5 were steamers in the paranzella fishery, 2 were schooners in the hand-line fishery, and 4 were steamers engaged in whaling.

The following tables give the number, crew, and tonnage of vessels using each kind of fishing apparatus, by counties; the number of boats using each kind of fishing apparatus, by counties; the number of persons in the shore or boat fisheries, by counties; the total yield of the fisheries of California, by species and counties; and the yield of the fisheries prosecuted by California fishermen in waters off the coast of Mexico, by species and landing ports.

		s Ange County			an Dieg County			Franc County			Total	HO BR MM
Fishery	Ves- sels	Crew	Ton- nage	Ves- sels	Crew	Ton- nage	Ves- sels	Crew	Ton- nage	Ves- sels	Crew	Ton- nage
Lines Lampara nets Purse seines Trammel nets	ber 89 125 43 13	Num- ber 844 1,078 351 53	tons 691 1, 012 1, 039 94	Num- ber 67 6 3 10	Num- ber 288 28 18 38	Net tons 527 42 54 74	ber 3	Num- ber 61	tons 737	Num- ber 159 131 46 23	ber 1, 193 1, 106 369 91	Net tons 1, 955 1, 054 1, 093 168
Paranzella nets Gill nets Lobster traps Abalone outfit	1 4	8 17	24 25	10 2	38 10	74 24	11 1	44 5	254 8	$\begin{array}{c c}12\\14\\2\\1\end{array}$	52 55 10 5	278 99 24
Whaling apparatus Total ¹	191	 1, 490	2, 213	75	328	624	4	44 154	235 1, 234	4 285	44	235 4, 071

Vessels engaged in the fisheries of California in 1923

Exclusive of duplication.

Boats (by apparatus) and persons engaged in the shore fisheries of California in 1923, by counties

Boats, by apparatus	Del Norte and Hum- boldt	Men- docino, Sono- ma, and Lake	Marin	Solano and Yolo	Coluso, Glenn, and Sutter	Sacra- mento and San Joa- quin	Ala- meda and Contra Costa	San Fran- cisco and San Mateo
Lines: Gas Sail and row Gill nets:	41 2	1	29			3	32	178
Gas Sail and row	4 88	4	2		2 4		78 7	47
Lampara nets: Gas Trammel nets: Gas Bag nets: Gas Paranzella nets: Gas	5401W 191612	600.027 011 10112	1 10.01.10 000.000	auc. 9191 112-10-1		inte nell diserio		10 1
Gas Row Haul seines:		17410	6140	1 1	2	$2 \\ 2$		1
Gas. Rowi Lobster traps: Gas	2		1.1.2	innob	3	5. <u>Rofi</u> t	1	1 1
Crab nets: Gas Row Abalone outfit: Gas	18711		the second se	odai).	ولميوا	3	1	105
Other gear: Gas	stor-be	triotry	2					2
Total: 1 Gas Sail and row	45 91	80 1	37	71 2	2 9	43 8	84 8	207
Persons engaged	253	90	50	134	16	81	171	326

1 Exclusive of duplication.

TRADERY AL DET

Boats (by apparatus)	and persons engaged in the shore fisheries of California in 1923	3,
Section Statistics and the section of	by counties—Continued	

Boats, by apparatus	Santa Cruz	Mon- terey	San Louis Obispo, Santa Bar- bara, and Ven- tura	Los An- geles	Orange	San Diego	Total
Lines: Gas Sail and row	27	182	18	376	29	104	1,065
				8	1		16
Gas	10	5	5	26	2	27	328
Sall and row	the second second second		3	1 64	1	5	110 100
Lampara nets: Gas Trammel nets: Gas	1	20	1	04	1	9	100
Gas			2	21	3	13	40
Row			1				1
Bag nets: Gas Paranzella nets: Gas Fyke nets:		1	6	1			10 9
Fyke nets: Gas							4
Row- Haul seines: Gas-				1			5
Row							4
Row Lobster traps: Gas Crab nets:		1	1	5	4	5	17
Gas	2	1					151 1
RowAbalone outfit: Gas Other gear: Gas		6					7 5
Total:1 Gas Sail and row	18	192	27 2	363 9	32 1	106	1, 307 135
Persons engaged		416	63	724	47	224	2, 625

¹ Exclusive of duplication.

Yield of the fisheries of California in 1923, by counties

Species	Del Nor Humi		Mendocino, Sonoma, and Lake Marin			rin	Solano and Yolo	
Carp Catfish		Value	Pounds 12, 185 50, 884	Value \$244 9, 159	Pounds	Value	Pounds 3, 257 823	Value \$65 148
Flounder Herring "Lingcod" Perch	$186, 144 \\ 3, 341 \\ 100$	\$26, 124 25	8, 351	1, 253	$1,649 \\ 28,035$	210		96
Perch Pike, Sacramento		$ \begin{array}{r} 656 \\ 2,166 \end{array} $	6, 562	328	332 23, 148	$\begin{smallmatrix}&17\\1,157\end{smallmatrix}$	108 111	52
Rockfishes Salmon Sea bass, white, or squeteague_	5, 864 1, 990, 235	293 179, 121	$1,609 \\812,867$	80 73, 158	$3,037 \\ 31,129 \\ 6,020$	$ \begin{array}{r} 152 \\ 2,802 \\ 548 \end{array} $	475, 812	42, 823
ShadShad_ buck			5245.5				1,565 47,266	31 945
Shad, roe Smelt Sole	32, 166 10, 153	322 406	2, 765	28	42, 104 182	421 7	110, 248	6, 615
Steelhead trout Striped bass Tomcod		422	M		2, 593 424	259 34	78,030	7, 803
Tomcod Other fish Crabs	254 640	5, 117 35, 140	4, 700 6, 480	$\begin{array}{c}188\\894\end{array}$	1,051 16,776	$210 \\ 2,315$	1,482	59
Clams, cockle Clams, mixed Clams, soft Mussels.	5, 538 14, 551	609 1, 164	20	2	$\begin{array}{r} 418,773\\ 23,145\\ 10,497\end{array}$	25,126 2,546 840	01001000	
Clams, soft Mussels Oysters, eastern, market	100 S	117770777	530	21	78, 560 230 9, 600	$3,142 \\ 12 \\ 3,360$		
Abalone Octopus		140.3211	304511111		9,000 40 219	3, 360 2 22		
Total	2, 588, 841	251, 565	906, 953	85, 355	697, 544	43, 346	721, 912	58, 592

Yield of fisheries of California in 1923, by counties-Continued

Species	Tehama, Colusa, Glenn, Sutter, and Butte		Sacrar and Joaq	San	Alameda and Contra Costa		San Francisco and San Mateo	
Anchovies			Pounds		Pounds	Value	Pounds 184, 085	Value \$15, 800
Barracuda							56	4
Bonito							574	2:
Carp			65.341	\$1.307	58, 163	\$1,163	9,661	193
Catfish			51, 330	9,239	26, 249	4,725		a star
Cod salted							1,398,000	69, 900
Flounder					12,117	364	1,658,823	64, 269
Flounder Grayfish							152, 208	761
Hake							70, 232	702
Hardhoad			9 563	96				1294111101
Hardhead Herring			0,000		66.087	496	269, 785	2,023
Kingfish					00,001		735	29
"Lingcod"							321, 542	16, 077
Mackerel							74	10,011
Perch						5	63, 287	3, 164
Pike, Sacramento Pilchard or sardines			647	13	3.772	75	94	0,10
Pilohard or sardings			017	10	0,112		339, 804	1.359
Pompano							618	247
Rockfishes							566. 319	28, 225
Sablefish							198, 590	11, 915
Salmon		¢e 007	477 590	49 077	1, 221, 643	109,947	1, 283, 748	115, 537
Saimon	08, 904	\$0, 201	411, 520	42, 911	1, 221, 040	109, 947	1, 200, 140	110,000
Sea bass, white, or sque- teague-							16, 555	1, 507
			4, 912	98	37,099	742	28, 470	1, 569
				463	333, 331	6, 667	20, 470	
Shad, buck Shad, roe				2,289	661, 100	39, 666	5	panglad 1
				2, 289	001, 100	39,000	127, 224	636
Skates					82	1	109, 934	1,099
Smelt Sole					270	11	6, 174, 114	246, 964
			12 150	120	800	8	0, 114, 114	240, 904
Splittail Striped bass Suckers	110		13,156 141,342	132	581, 870	58, 187	105, 508	10, 551
Suchana	119	12	342	14, 134	381, 870	00, 107	100,000	10, 001
Tomcod			342	0			37.868	3, 029
Other fish			204	8	1,332	53	83, 911	9,854
					3, 552	490	786, 936	108, 597
Crabs Shrimp						490	694, 585	41, 675
Clame coft					145 021	5, 809	58,774	2,351
Clams, soft					140, 201	3, 809		470
Mussels					477	24	9,409	
Octopus			1 100				9, 877	988
Terrapin			1, 128	08			15 505	1 000
Sperm oil							15,585	1, 282
Whale oil							4, 644, 293	316, 450
Other whale products							2, 370, 000	81, 796
Total	69, 083	6, 219	826, 802	70, 827	3, 153, 272	228, 433	21, 791, 310	1, 158, 061

Species	Santa Cruz		Mont	erey	San Luis Obispo Santa Barbara, and Ventura		Los Angeles	
Albacore Anchovies Barracuda Bonito Flounder Grayfish Hake		Value \$7, 264 7 87	Pounds 149 85,016 6,982 3,325 12,720	Value \$18 638 510 143 922	Pounds 21, 693 2, 288 333, 398	Value \$1, 584 98 49, 995	Pounds 8, 514, 349 37, 973 5, 925, 768 1, 006, 531 877, 628 5, 645	Value \$1, 106, 865 2, 848 507, 658 43, 281 140, 673 28
Herring Kingfish "Lingcod"	188 50, 848 28, 693	$ \begin{array}{c} 1 \\ 2,034 \\ 1,435 \end{array} $	110, 207 93, 677	4, 408 4, 684	26	1	238, 722	3, 660
Mackerel Mullet Perch Pilchard or sardines	944 1, 884	38 94	570, 371 22, 502	22, 815 1, 125	13, 012 980	520 49	2, 688, 143 10, 805 164, 110	107, 864 1, 184 9, 846
Pompano Rock bass Rockfishes	275 187 559, 561	75 26, 217	86,060,322 106 1,468,475	344, 241 42 66, 844	1,060 2,041 68,408	4 171 3, 312	67, 493, 419 20, 997 220, 395 1, 343, 236	337, 467 8, 453 18, 685 77, 910
Sablefish Salmon Sculpin	329, 238 306, 336	19, 754 27, 570	1, 408, 473 10, 464 422, 000	628 37, 980			44, 623	4, 462
Sea bass, black Sea bass, white, or squeteague	119, 368	2, 561	30, 187	655	2, 703 149, 870	246 13, 638	47, 398 1, 583, 470	4, 433 146, 230

Yield of fisheries of California in 1923, by counties-Continued

Species	Santa	Cruz	Mont	erey	San Luis Santa B and Ve	arbara, Los A		Angeles	
Shad	Pounds 49	Value \$1	Pounds	Value	Pounds	Value	Pounds	Value	
Sheepshead					289	\$6	5,979	\$120	
Skates Skipjack or striped	2, 507	13	990	\$5			3, 019	60	
tuna			1.1.1.1.1.1.1.				7, 707, 653	199, 472	
Smelt Sole Striped bass	62, 210 642, 785	622 25, 711	7, 140 54, 275 111	71 2, 171 11	69, 200 73, 842	692 3, 692	339, 261 114, 077	14, 735 6, 845	
Swordfish			111				6, 277	785	
Tomcod	3,475	278		1			0, 211	100	
Tuna, bluefin							1, 901, 334	95, 897	
Tuna, yellowfin							6, 838, 741	378, 372	
			· · · · · · P · · · · ·				662, 355	35, 470	
Whitefish							27,066	1, 390	
Yellowtail					3,001	156	1, 600, 166	85, 643	
Other fish Crabs	14,019 4,848	561 669	6, 332 2, 568	392 354	13, 470	539	85, 099	3, 440	
Sea crawfish or spiny lobster		a grand	2,000		75, 583	15, 116	169, 468	34,007	
Clams, cockle		12.292					7,414	816	
Clams, mixed							397	36	
Clams, Pismo		50			237, 228	16,606			
Mussels			4,665	233	95	5		196.467.453	
Abalone	15	.1	1, 532, 757	58, 245	22, 322	848	32, 599	1,271	
Octopus Squid	42, 134	4, 213	57, 823 1, 098, 510	5, 782 7, 140			$\begin{array}{c}169\\81,011\end{array}$	17 534	
Terrapin							142	9	
Total	2, 365, 440	119, 260	91, 661, 674	560, 057	1, 090, 509	107, 278	109, 805, 439	3, 380, 466	

Species	Orai	Orange Sa		ego and oerial	Total	
Albacore		Value \$98	Pounds 3, 999, 581	Value \$520, 212	Pounds 12, 514, 833 307, 074	Value \$1, 627, 193 19, 292
Barracuda Bonito Carp	28, 738 28		1, 217, 338 102, 501	63, 144 3, 762	7,200,575 1,115,247 148,607	575, 285 47, 310 2, 972
Catfish Cod, salted Eels	18,061		188	6	129, 286 1, 398, 000 • 18, 249	23, 271 69, 900 548
Flounder Grayfish Hake	34, 903	5, 616	968, 692 201, 165	163, 100 1, 006	4, 282, 659 360, 363 78, 969	459, 840 1, 802 789
Hardhead Herring Kingfish			$16,514 \\ 11,026$	1, 239 169	9, 563 383, 950 411, 564	96 3, 994 10, 301
"Lingcod" Mackerel Mullet		3, 856	3,429 223,494 63,420	$172 \\ 8,986 \\ 6,881$	$\begin{array}{r} 467,357\\ 3,592,446\\ 74,225\end{array}$	$\begin{array}{c} 23,369 \\ 144,082 \\ 8,065 \end{array}$
Perch Pike, Sacramento Pilchard or sardines	775	58 3	39, 290 5, 301, 351	2, 013 21, 205	359, 682 4, 624 159, 197, 006	19, 682 92 704, 280
Pompano Rock bass Rockfishes	$ \begin{array}{r}10\\6,921\\52,824\end{array} $	4 581 3, 063	$11,000 \\127,912 \\880,911$	4, 477 10, 864 44, 218	32, 918 357, 269 4, 950, 244	$\begin{array}{c} 13,298\\ 30,301\\ 250,314 \end{array}$
SablefishSalmonSculpinSalmon	59	6	15, 784	1, 578	538, 292 7, 090, 260 60, 466	32,297 638,122 6,046
Sea bass, black Sea bass, white, or squeteague Shad	14, 428	1, 312	176, 055 600, 365		$226, 995 \\ 2, 520, 263 \\ 72, 095$	22,168224,8691,441
Shad, buck Shad, roe Sheepshead	76	2	25, 284		403, 787 809, 501 31, 628	8,076 48,571 639
Skates. Skipjack or striped tuna Smelt	120, 795	2 5, 230	60 3, 754, 869 20, 723	1 98, 613 928	$133,988 \\11,462,522 \\806,380$	717 298, 085 24, 149
Sole Splittail Steelhead trout	3, 388	169	12, 949	655	7, 086, 035 13, 956 3, 011	286, 631 140 422
Striped bass					909, 573	90, 957

Species	Tails Orlepo, and Hurbara, ad Fantara			San Die Imp	ego and erial	Total	
Suckers		Pounds	Value	Pounds	Value	Pounds 342	Value \$3
Swordfish Tomcod	104 2020			5, 414	\$683	11, 691 41, 767	1, 468 3, 341
Tuna, bluefin Tuna, yellowfin				1, 399, 753 3, 998, 184	69, 988 222, 040	3, 301, 087 10, 836, 925	165, 885 600, 412
Tuna, mixed Whitefish		15	\$1 30	12, 247	669	662, 370 39, 908	35, 471 2, 089
Yellowtail Other fish			143 18	2, 373, 696 13, 213	131, 108 616	3, 979, 611 252, 012	217, 050 21, 055
Crabs Sea crawfish or spiny lo			5, 041	822, 601	171, 492	1, 075, 800 1, 092, 858	148, 459 225, 656
Clams, cockle						1, 113, 358 36, 117	66, 801 3, 973
Clams, mixed Clams, Pismo						237, 948	2,076 16,656
Clams, soft Mussels Oysters, eastern, marke	- 222	45, 100	2, 255			283, 095 60, 026	11, 323 3, 002
Abalone						9,600 1,587,733 110,222	3, 360 60, 367
Octopus Squid				925	6	1, 180, 446 1, 270	11,022 7,680 77
Terrapin Sperm oil Whale oil						15, 585 4, 644, 293	1, 282 316, 450
Other whale products						2, 370, 000	81, 796
Total		454, 258	30, 492	26, 400, 334	1, 626, 209	262, 533, 371	7, 726, 160

Yield of fisheries of California in 1923, by counties-Continued

Yield of the fisheries prosecuted by California fisherman in waters off the coast of Mexico

Species	Landed Ped		Landed Die		To	tal
Albacore	Pounds	Value	Pounds 26, 634	Value \$3,729	Pounds 26, 634	Value \$3,729
Barracuda	1, 561, 909	\$145 458	502, 842	36, 708	2, 064, 751	182, 166
Bonito	564, 818	24, 287	71,658	2,436	636, 476	26, 723
Flounders	70, 924	11, 348	811, 389	139, 536	882, 313	150, 884
Kingfish	7,822	196	307	8	8, 129	204
"Lingcod"		100	47	3	47	3
Mackerel	33, 826	1,691		233	38, 495	1,924
Mullet	10, 302	1,133	53, 916	5, 931	64, 218	7,064
Perch	28, 840	1,730	4, 793	288	33, 633	2,018
Pompano	5,456	2,237	7,682	3,150	13, 138	5, 387
Rock bass	17, 238	1,620	11, 992	1,127	29, 230	2,747
Rockfishes	675	41	17, 219	1,033	17.894	1,074
Sea bass, black	11,993	1, 211	139, 262	14,065	151, 255	15, 276
Sea bass, white, or squeteague	213, 374	21, 551	378, 503	38, 228	591,877	59,779
Sheepshead	- 01 L. (]		517	16	517	16
Skipjack or striped tuna	4, 531, 884	135, 957	2, 351, 561	70, 547	6, 883, 445	206, 504
Smelt	4,465	238	3,075	164	7, 540	402
Sole	146		804	48	950	57
Swordfish	Sec. 201	19	635	86	635	86
Tuna, bluefin	82,997	4,980	1.53		82,997	4,980
Tuna, yellowfin	6, 515, 754	363, 579	3, 892, 275	217, 189	10, 408, 029	580, 768
Tuna, mixed	235, 204	14, 112			235, 204	14, 112
Whitefish	967	59	4,438	271	5, 405	330
Yellowtail	243, 523	15,098		47, 585	1,011,015	62, 683
Other fish	5, 027	251	8,757	438	13, 784	689
Spiny lobster	11,300	2,373	697, 177	146, 407	708, 477	148, 780
Clams, mixed	397	36	400	36	797	72
Clams, mixed Abalone	32, 599	945			32, 599	945
Squid	4, 381	36				36
Terrapin	142	9			142	9
Total	14, 195, 963	750, 185	9, 758, 044	729, 262	23, 954, 007	1, 479, 447

FISHERIES OF THE SOUTH ATLANTIC STATES IN 1923

The statistics of the fisheries contained in this report apply to the commercial coast fisheries of North Carolina, South Carolina, Georgia, and the eastern coast of Florida for the calendar year 1923. They are the result of a canvass made by the bureau's agents³ during 1924, and in so far as possible the methods used were similar to those employed in the corresponding canvass of this section for 1918 in order that the statistics obtained might be strictly comparable. The results of the canvass have already been published in condensed form in Statistical Bulletin No. 652 and distributed to the trade. The detailed statistics are published herewith for the first time.

EARLIER PUBLICATIONS

Some of the earlier publications relating to the fisheries of the South Atlantic States and published in Washington, D. C., follow:

1887. North Carolina and Its Fisheries. By R. Edward Earll. In The Fisheries and Fishery Industries of the United States, by G. Brown Goode et al., Sec. II, Pt. XII, p. 475-497.
The Fisheries of South Carolina and Georgia. By R. Edward Earll. Ibid., Sec. II, Pt. XIII, p. 499-518.
Eastern Florida and Its Fisheries. By R. Edward Earll. Ibid., Sec. II, Pt. YUV = 510, 521.

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COMMON AND SCIENTIFIC NAMES OF FISHES

Trade usage in the nomenclature of fishes is often confused and sometimes renders it impossible to properly separate and distinguish species occurring in the statistical reports. In the following statistics

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³ The data were collected by Winthrop A. Roberts and Rob Leon Greer, assisted by Carl B. Tendick, James Buckley, and Frank E. Kingsbury.

of the South Atlantic States it was found impossible to separate the crappie from the other sunfishes except in the State of Florida. Harvest fish (*Peprilus alepidotus*), caught together with butterfish (*Poronotus triancanthus*), and selling at the same price, were often included with the latter, but separation of the statistics has been made in so far as possible. The pigfish (*Orthopristis chrysopterus*) is sometimes known as hogfish in North Carolina, and it is possible that some of the hogfish reported in North Carolina may be this species rather than the hogfish (*Lachnolaimus maximus*) more commonly found in the Florida waters. Both the fresh-water catfish (Ameiurus species and Ictalurus species) and the salt-water catfish (Felichthys species and Galeichthys species) were included together. In North Carolina it was possible to report the gray trout (*Cynoscion regalis*) and the speckled trout (*Cynoscion nebulosus*) separately; elsewhere they have been included together under the name squeteague or "sea trout."

The following list gives the scientific names of the fishes corresponding to the common names as listed in the statistics in so far as it has been possible to determine them:

Alewives	[Pomolobus æstivalis.
	Pomolobus pseudoharengus.
Amber fish	
Angel fish	
Barracuda	Sphyræna (species).
Black bass	{ Micropterus dolomieu.
	I MILLIODLEI US SULMOLUES.
Bluefish	Pomatomus saltatrix.
Blue runner or hardtail	
Bonito	
Bowfin	
Butterfish	
Carp, German	
Catfish	
Cero and kingfish	Scomberomorus regalis.
	Scomberomorus cavalla.
Crappie	∫Pomoxis sparoides.
	Pomoxis annularis.
Crevalle	
Croaker	Micropogon undulatus.
Drum, black	Pogonias cromis.
Drum, red	Scixnops ocellatus.
Eels	Anguilla rostrata.
Leis	Other Apodes.
Flounders	Pleuronectidæ (species).
Garfish	Lepisosteus osseus.
Gizzard shad	Dorosoma cepedianum.
	(Epinephelus (species).
Groupers	Mycteroperca (species).
	Garrupa nigrita.
Grunts	Hæmulonidæ (species).
Harvest fish	Peprilus alepidotus.
Hickory shad	Pomolobus mediocris.
Hogfish	Lachnolaimus maximus.
Jewfish	Promicrops itaiara.
King whiting	Menticirrhus (species).
King whiting Leather jacket or "turbot"	Balistes carolinensis.
Menhaden	Brevoortia tyrannus.
Moonfish	Vomer setipinnis.
Mullet) Mugil cephalus.
	Mugil curema.
Permit	Trachinotus goodei.
	a second a second a second

Pigfish	Orthopristis chrysopterus.
Pike or pickerel	Esox (species).
Pinfish or sailor's choice	∫Lagodon (species).
	Other species.
Pompano	$\int T$ rachinotus carolinus.
Porkfish	Trachinotus (other species).
Porkfish	Anisotremus virginicus.
Scup	Stenotomus (species).
Sea bass	
Shad	
Sharks	All Selachii except Batoidei.
Sheepshead	Archosargus probatocephalus.
Skates	Batoidei (species).
Snapper, mangrove	Lutianus griseus.
Snapper, mutton	Lutianus analis.
Snapper, red	Lutianus blackfordii.
Snook or sergeant fish Spanish mackerel	. Centropomus unodecimalis.
Spanish mackerel	Scomberomorus maculatus.
Spot	. Decoscomas rancharas.
	Cynoscion regalis.
Squeteagues or "sea trout"	
at the state and the transmission of the state	Cynoscion nebulosus.
Striped bass Sturgeon Suckers	. Roccus lineatus.
Sturgeon	Acipenser sturio.
Sunfish	
Tautog	Tautoga onitis.
Tripletail White perch	. Lobotes surinamensis.
White perch	. Morone americana.
Yellow perch	Perca flavescens.
Yellowtail or "silver perch"	. Bairdiella chrysura.

GENERAL STATISTICS

The number of persons engaged in the fisheries of the South Atlantic States in 1923 was 16,298, of whom 1,480 were on vessels fishing, 180 on vessels transporting fishery products, 8,614 in shore fisheries and 6,024 shoresmen in the wholesale fishery trade, fish canneries, and similar industries connected with the fisheries. Of the total 9,308 of the persons were in North Carolina, 2,164 in South Carolina, 2,019 in Georgia, and 2,807 on the east coast of Florida.

The capital invested in the fisheries of this region amounted to \$8,505,259, distributed as follows: North Carolina, \$4,198,894; South Carolina, \$606,781; Georgia, \$1,378,704; and the east coast of Florida, \$2,320,880. The investment included vessels and boats valued at \$2,545,644; fishing apparatus used by vessels and boats, \$699,604; shore and accessory property to the value of \$4,530,711; and cash capital to the amount of \$729,300.

The products of the fisheries of this region amounted to 228,747,930 pounds, valued at \$5,087,340. Of this total North Carolina produced 95,192,343 pounds, valued at \$2,414,499; South Carolina, 6,763,279 pounds, valued at \$284,791; Georgia, 39,896,386 pounds, valued at \$668,129; and the east coast of Florida 86,895,922 pounds, valued at \$1,719,921.

Arranged in order of value, some of the more important fishery products are as follows: Shrimp 23,705,901 pounds, valued at \$821,-861; menhaden, 148,180,970 pounds, valued at \$752,026; shad, 3,190,666 pounds, valued at \$716,649; oysters, from both public and private beds, 11,172,336 pounds, valued at \$448,137; squeteagues or "sea trout," 5,258,047 pounds, valued at \$381,155; mullet, 7,734,412 pounds fresh and 622,000 pounds salted, valued altogether at \$378,301; bluefish, 2,004,244 pounds, valued at \$214,826; Spanish mackerel, 2,652,341 pounds, valued at \$205, 987; cero and kingfish, 1,966,596 pounds, valued at \$161,201; and alewives or river herring, 2,609,347 pounds fresh and 4,961,050 pounds salted, valued altogether at \$146,104.

Compared with the statistics for 1918 there was an increase of 8.3 per cent in the persons engaged, an increase of 14.6 per cent in the investment, and a decrease of 31.2 per cent in the quantity and 4.9 per cent in the value of the products of the fisheries. In North Carolina there was an increase of 15.8 per cent in persons engaged, a decrease of 0.6 per cent in the investment, and a decrease of 54.8 per cent in the quantity and 18.9 per cent in the value of products of the fish-In South Carolina there was an increase of 8.2 per cent in eries. persons engaged, 174.2 per cent in investment, and 80.5 per cent in the quantity and 37.1 per cent in the value of products of the fisheries. The fisheries of Georgia also showed increases in all phases of the industry; there was an increase of 20.2 per cent in persons engaged, 79 per cent in the investment, 7.4 per cent in the quantity, and 60.6 per cent in the value of the production. On the east coast of Florida there was a decrease of 15.7 per cent of persons engaged, an increase of 5 per cent in the investment, an increase of 7 per cent in quantity of fishery products, and a decrease of 1.5 per cent in the value of the products.

Practically all of the decrease in production may be attributed to a failure in the menhaden fishery, which in 1923 produced only 148,180,-970 pounds, as compared with 257,757,799 pounds in 1918. Other fishes showing a severe decrease since 1918 are alewives, cero and kingfish, red and black drum, mullet, and Spanish mackerel. The yield of shad and squeteague or "sea trout" increased somewhat, and the production of shrimp and oysters was greatly increased over that of 1918.

States	On vessels fishing	On vessels transporting	In shore fisheries	Shoresmen	Total
North Carolina South Carolina Georgia Florida (east coast)	1, 055 8 186 231	51 94 29 6	5, 140 1, 044 620 1, 810	3, 062 1, 018 1, 184 760	9, 308 2, 164 2, 019 2, 807
Total	1, 480	180	8, 614	6, 024	16, 298

duced 95,192.3 **Connels**, valued at 82.414,490 % ath 55,505 6,763.279 pough**P76 s**ynd at \$284.791; Georgia, 29 806,385 georgia valued at \$668.129, and the east coast of Horida 86,803,627 georgia

products are as follows: Shrinp 23,705,001 pounds, value i st 58/1, 861; menhaden: 148,180,070 pounds, valued at 870; 170; stud

bounds, yahad approx 540. Of this total Natio

Persons engaged in the fisheries of the South Atlantic States in 1923

Investment in the fisheries of the South Atlantic States in 1923

Items		orth rolina		outh rolina	G	eorgia		lorida st coast)	г	otal
Vessels fishing:	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Steam	3	\$92, 500					4	\$155, 300	7	\$247,800
Tonnage	179						353		532	
Outfit		10,400		Sec. 100				26, 683		37, 08
Gasoline	64	471, 980	1	\$3, 500	24	\$182,075	7	67,000	96	724, 55
Tonnage	1, 506		11		469		208	0.,000	2, 194	,
Outfit	-,	91, 830		2,000		34, 763		18,800	-, -0 -	147, 39
Sail	74	66, 230		-,				10,000	74	66, 230
Tonnage	667	00, 200							667	00, 200
Outfit	001	11, 753							001	11, 75
Accessory gasoline boats	82	25, 950							82	
Vessels transporting:	04	20, 000							04	20, 900
Gasoline	30	58,000	15	47, 700	10	11,700	3	4,100	58	121, 500
	273	56,000	224		99	11, 100	33	4, 100	629	121, 000
Tonnage	210	00 595	441		99	1, 225	00		029	07 50
Outfit		22, 535		3, 250		1, 220		550		27, 56
Sail	3	4,900	34			8, 500			45	35, 500
Tonnage	29		362		111				502	
Outfit		650		2,950		455				4, 05
Power boats	1, 384	330, 930		22, 325	145	130, 300	792	517,650	2,379	1,001,20
Sailboats	110	14, 780	18						128	16, 58
Rowboats, etc	1,892	42, 215	674	13, 900	347	7,465	514	14,900	3, 427	78, 48
Apparatus, vessel fisheries:				101.01						1.111.51
Purse seines	35	53, 200			4	7,200	8	10,300	47	70, 70
Haul seines	34	21, 200							34	21, 200
Lines		130		100		300				530
Otter trawls	2	110			16	780	3	150	21	1.04
Dredges	156	4,070			2	100		100	158	- 4, 17
Tongs		226		12.051		200			40	
Apparatus, shore fisheries:	10	220		00 088					10	
Purse seines.	9	5, 200		CAL STORE			5	7,500	14	12.70
Haul seines		74, 834	16	1,695			85	16, 160	630	92, 68
Gill nets	19 518	82, 923		21, 460		4, 560			13, 513	
Pound nets	9 872	259, 382				4,000	000	00, 410	2,873	259, 38
Fyke nets	548	5,095							548	
		0,000		210						21
Stop nets							6		6	
Cast nets								62		3
Dip nets	323	157					31		354	
Lines.	1 100	577		150		40		4, 595	4 100	5, 36
Eel pots	4, 129	5,070							4, 129	
Spears	152	155		47			3	3	210	20
Revolving traps	6	246							6	24
Weirs		100							5	10
Otter trawls		2, 418		350	118	5, 900	226	12,000	400	
Dredges		4, 680							729	
Tongs	418	2,618			134	706	35	251	633	3, 82
Rakes	553	540					12	9	649	61
Grabs			425	540	183	246	4		612	
Crab traps				21.22			30	75	30	
Drag nets		255		22.52					69	
Turtle trans	100	100		5					100	
Shore and accessory property		2: 197, 855		366, 884		859, 889		1, 106, 083		4, 530, 71
Cash capital		233, 100		95, 500		122, 500		278, 200		729, 30
suprom						,000				
Total		4, 198, 894	1	606.781				2, 320, 880		8, 505, 2

Note.-In this report all craft of 5 net tons and upward are classed as vessels and all under 5 net tons are classed as boats.

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Yield of the fisheries of the South Atlantic States, 1923

Species	North (Carolina	South (Carolina	Georgia	
the local statement of the second statement of	Deverte	Walara	Pounds	Value	Pounds	Value
() - (-)	Pounds 1, 589, 347	Value \$33, 366	Pounas	value	Founas	value
Alewives, fresh		86,038			**********	
Alewives, salted	4, 933, 050					
Angel fish	7, 305	418				
Black bass	331, 161	47, 227				
Bluefish	896, 694	66, 805	7,000	\$700		
Bonito	43,070	2,688				
Bowfin	21,009	390				
Butterfish	298, 990	14,625				SDOR CO.
Carp, German	209, 147	10,438				
Carp, German	255, 318	6,877	2,500	79		
Catfish	1, 139	124	2,000	10		
Cero and kingfish			*********	********		
Cod	340	10			**********	
Crevalle	325	16	7,000	350		
Croaker	2, 262, 308	53, 993	26,000	1,274		
Drum, black Drum, red, or redfish	1,794	194	13,050	392		
Drum red or redfish	245, 443	10,763	31,000	1,730	600	\$36
Fels	179, 526	17,036				
Eels Flounders	179, 526 332, 773	22,039	27,650	2, 164	200	15
Configh	2, 150	22,035	21,000	-, 101	200	1.
Garfish Gizzard shad	2,100		*********		**********	*******
Gizzard Shad	8,905	177	0.000	*********		
Groupers			8,000	480	11, 413	571
Grunts Harvestfish or ''starfish'' Hickory shad	1,100	33			123	10
Harvestfish or "starfish"	520, 816	22, 217				
Hickory shad	381, 521	29, 598	7,500	750	10, 510 2, 767	1.066
Jewfish					2,767	111
King whiting	560, 159	21, 326 325, 967 109, 464	83, 400	7,823	1,000	100
Menhaden	63, 289, 940	325 067	00, 100		26, 973, 000	149, 850
Mennaden	1 270 710	100 464	159 500	11,600	4,000	
Mullet, fresh	1, 379, 712	109,404	152, 500	11,000	4,000	240
Mullet, salted	369,000	39, 305	253,000	23,600		
Pigfish	385, 270	8,823				
Pike	13, 910	1,413				
Pinfish or sailor's choice	13,860	425			400	24
Pompano	49, 547	3,681				10041
Scup or porgy		-,	8,500	605	1,601	182
Sea bass	102, 265	8,217	218,000	20,300	104,090	8, 327
	2, 370, 134	582, 591	183, 916	43, 721	133,750	27, 890
	2, 370, 134	002,001		40, 721	100,700	21,000
Sharks			18,000	360-		
Sheepshead	51, 685	3, 421	1,000	80	**********	
Skate			3,000	60		
Snapper, red Spanish mackerel	1,200	84	2,000	200	104,970	7, 347
Spanish mackerel	182,941	18,740				
Spot, fresh	1,672,223	54, 647	56, 500	3,880	600	36
Spot, solted	78, 500	5,750	50,000	4,600		
Paratoamia or "saa tront"	3, 984, 347	250, 847	70, 300	6, 954	5,000	500
Spot, salted Squeteague or "sea trout" Striped bass	477,001	75,953	10,000	0,004		
Surped bass			40 400	14 000	360	29
Sturgeon	18,854	3, 129	49, 406	14, 983	32,000	3,600
Sturgeon caviar	305	593	575	1,725	38	114
Suckers	1,394	17				
Sunfish	42,383	815	1,500	120		
Tautog	75	5				
Tripletail	181	9				
White perch	438, 542	33, 749				
Yellow perch	268, 397	16,007				
Other fish	213	13				
Crabs, hard	331, 350	5, 395	9,000	270	120,000	7,000
Crabs, soft	182, 296	27,692				
Shrimp	1,658,476	50,772	355,000	12,425	10, 668, 380	373, 303
Clams, hard	263, 536	64,064	85,640	9,611		,000
Oysters, market, public	3, 904, 446	228, 351	85, 640 4, 587, 226	99, 534	948, 787	57, 380
Oysters, market, private	12,950	1, 225	445, 116	14, 421		29, 391
			440, 110	14, 421	771, 547	29, 391
Scallops	554, 574	46, 214				
Octopus					50	10
Terrapin	360	120			1,200	1,000
Turtles	9,086	583				
Total				284, 791		

Yield of the fisheries of the South Atlantic States, 1923-Continued

Species	Florida (east coast)	Total		
Alewives, fresh	Pounds 1, 020, 000	Value \$25, 500	Pounds 2, 609, 347	Value \$58, 80	
lewives, salted	28,000	1,200	4, 961, 050	87, 23	
mber fish	4,100	128	4, 100	12	
ngel fish	3, 200	118	10, 505	- 53	
Barracuda	2,700 82,293	86 8, 379	2,700 413,454	EE 00	
Bluefish	1, 100, 550	147, 321	2,004,244	55, 60 214, 82	
Blue runner or hardtail	179,400	4, 244	179, 400	4, 24	
Bonito	350	12	43, 420	2, 70	
Bowfin			21,009	- 39	
Butterfish			298, 990	14, 62	
arp, German			209, 147	10, 43	
atfish	783, 440	38, 372	1,041,258	45, 32	
ero and kingfish	1, 965, 457	161,077	1, 966, 596	161, 20	
Prappie	65, 403	3, 532	$\begin{array}{c} 340\\65,403\end{array}$	3, 53	
Prevalle	164, 600	5,049	171, 925	5, 41	
Croaker	21, 500	674	2, 309, 858	55, 94	
Drum, black	46,700	1, 519	61, 544	2, 10	
Drum, black Drum, red, or redfish	121,850	4,434	398, 893	16, 96	
Cels			179, 526	17, 03	
lounders		489	366, 473	24, 70	
arfish			2,150	- 2	
izzard shad			8,905 -	- 17	
roupers	17, 200 7, 650	900 307	36, 613 8, 873 -	1, 95	
Jarvestfish or "starfish"	1,000	307	520, 816	- 35 22, 21	
runts Iarvestfish or "starfish" lickory shad			399, 531	31, 41	
logfish	1, 550	64	1, 550	6	
ewfish	250	7	3,017	11	
Cing whiting	175, 300	6,812	819, 859	36,06	
King whiting eatherjacket or "turbot"	400	16	400 -	. 1	
Aennaden	57, 918, 030	276, 209	148, 180, 970	752, 02	
Ioonfish	2,200	69	2,200 -	6	
Aullet, fresh	6, 198, 200	194, 092	7, 734, 412	315, 39	
Aullet, salted Permit	5,700	179	622,000 5,700	62,90 17	
Pigfish	14, 150	435	399, 420	9,25	
Pike		100	13, 910	1, 41	
Pinfish or sailor's choice	51, 130	1,561	65, 390	2,01	
ompano	60, 650	8,926	110, 197	12,60	
orkfish	2,000	60	2,000	- 6	
cup or porgy	2,000	110	12, 101	89	
ea bassergeant fish or snook	4, 175 139, 700	$ \begin{array}{c} 264 \\ 4,273 \end{array} $	428, 530	37, 10	
had	502, 866	62, 447	139,700 3,190,666	- 4, 27 716, 64	
harks	002, 800	02, 447	18,000	36	
heepshead	32,100	1,329	84, 785	4, 83	
kate		-,	3, 900	6	
napper, mangrove	26, 500	1,004	26, 500	1,00	
napper, mutton	123, 100	4, 305	123, 100	4,30	
napper, red	11,600	776	119,770	8,40	
panish mackerel	2, 469, 400	187, 247	2,652,341	205, 98	
pot, fresh	71,700	2,877	1,801,023	61, 44	
pot, salted queteague or "sea trout" triped bass	1, 198, 400	122,854	128,500 5,258,047	10,35 381,15	
triped bass	1, 198, 400	122,004	477, 361	381, 15 75, 98	
turgeon	00200000 MR		100, 260	21, 71	
turgeon caviar			918	2, 43	
uckers			1,394	_,1	
unfish	476, 809	19,672	520, 692	20, 60	
Cautog			75		
Pripletail			181 -	00.74	
White perch			438, 542 268, 397	33, 74	
Vellow perch Vellowtail or "silver perch"	28,650	897	208, 397	16,00 - 89	
Other fish	28,000	001	28,050	- 1	
rabs, hard	72,000	3,600	1 532, 350	16, 26	
Crabs, soft	. 2, 000	0,000	? 182, 296	27, 69	
ea crawfish or spiny lobsters	156, 200	11,634	156, 200	11, 63	
hrimp	11.024.045	385, 361	23, 705, 901	821, 86	
Clams, hard Ovsters, market, public	4, 560	1,665	3 353, 736	75, 34	
)ysters, market, public	464, 214	14, 475	4 9, 906, 673	399, 74	
ysters, market, private	36,050	3, 360	\$ 1, 265, 663	48, 39	
callops			⁶ 554, 574	46, 21	
Octupus			1 560	1 19	
Cerrapin Furtles	12010/1001001	111111111111	1, 560 9, 086	1, 12	
Total			0,000	00	
Total	86, 895, 922	1, 719, 921	228, 747, 930	5, 087, 34	

¹ 1,597,050 in number. ² 546,888 in number. ³ 44,217 bushels. ⁴ 1,415,239 bushels. ⁶ 180,809 bushels.
⁶ 92,429 bushels.

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Extent of the fisheries of the South Atlantic States, various years, 1880 to 19231

ten Protector Vering	North Carolina	South Carolina	Georgia	Florida (east coast)	Total
FERSONS ENGAGED 1880 1887 1888 1889 1890 1897 1902 1908 1918 1923	$\begin{array}{c} Number \\ 5,274 \\ 7,352 \\ 7,704 \\ 8,655 \\ 10,274 \\ 12,045 \\ 14,755 \\ 9,681 \\ 8,036 \\ 9,308 \end{array}$	Number 1,005 1,280 1,346 2,642 2,701 2,139 3,713 2,559 2,000 2,164	Number 899 627 638 1,497 1,622 1,869 2,286 2,525 1,680 2,019	Number 368 (1) 851 1, 244 1, 404 1, 132 2, 608 3, 196 3, 330 2, 807	Number 7, 546 (1) 10, 539 14, 038 16, 001 17, 185 23, 452 17, 961 15, 046 16, 298
INVESTMENT 1880	$\begin{array}{c} Dollars\\ 506, 561\\ 766, 881\\ 801, 474\\ 908, 600\\ 1, 243, 988\\ 1, 218, 459\\ 1, 973, 441\\ 1, 270, 000\\ 4, 222, 043\\ 4, 198, 894 \end{array}$	$\begin{array}{c} Dollars \\ 66, 275 \\ 92, 930 \\ 97, 189 \\ 107, 205 \\ 127, 762 \\ 174, 354 \\ 320, 723 \\ 114, 000 \\ 221, 251 \\ 606, 781 \end{array}$	Dollars 78, 770 61, 806 65, 556 120, 975 174, 431 284, 864 342, 150 409, 000 769, 998 1, 378, 704	Dollars 43, 554 (²) 109, 670 128, 434 142, 105 151, 155 364, 835 531, 000 2, 210, 679 2, 320, 880	Dollars 695, 160 (¹) 1, 073, 889 1, 325, 214 1, 688, 286 1, 828, 832 2, 991, 149 2, 324, 000 7, 423, 971 8, 505, 259
PRODUCTS Quantity: 1880 1887 1889 1890 1897 1902 1908 1918 1923	Pounds 32, 249, 488 45, 124, 956 43, 022, 855 45, 545, 643 51, 799, 142 64, 234, 257 67, 584, 734 101, 422, 000 210, 501, 750 95, 192, 343	Pounds 6, 143, 250 4, 075, 537 4, 180, 847 4, 879, 125 4, 944, 840 5, 280, 446 8, 174, 463 14, 104, 000 3, 746, 932 6, 763, 279	Pounds 2, 272, 560 1, 882, 790 1, 967, 749 2, 643, 533 2, 994, 117 4, 993, 100 11, 102, 610 14, 828, 000 137, 153, 953 39, 896, 386	Pounds 2, 286,750 (?) 5,982,375 7,463,531 5,882,662 19,584,265 36,521,000 81,211,488 86,895,922	Pounds - 42, 951, 988 (1) (1) 59, 050, 676 67, 201, 630 80, 390, 465 106, 446, 072 166, 875, 000 332, 614, 123 228, 747, 930
Value: 1880 1887 1888 1889 1890 1890 1997 1902 1908 1918 1923	Dollars 845, 695 772, 957 776, 439 950, 427 1, 027, 669 1, 316, 017 1, 739, 661 1, 776, 000 2, 978, 708 2, 414, 499	Dollars 212, 482 157, 688 163, 657 200, 381 202, 602 210, 456 263, 023 288, 000 207, 690 284, 791	Dollars 119, 993 80, 745 82, 916 105, 727 123, 563 170, 605 359, 081 701, 000 416, 043 668, 129	Dollars 78, 408 (³) 173, 886 199, 043 219, 870 136, 077 477, 868 1, 269, 000 1, 746, 175 1, 719, 921	Dollars 1, 256, 578 (³) 1, 196, 892 1, 455, 578 1, 573, 704 1, 833, 155 2, 839, 633 4, 034, 000 5, 348, 616 5, 087, 340

Statistics for 1908 are from data published by the Bureau of the Census.
 Statistics not available.

COMPARISON OF YIELD OF CERTAIN SPECIES IN VARIOUS YEARS

In the foregoing statistics of the products of the fisheries a number of species have been shown fresh and salted as marketed by the fishermen, the quantity salted varying more or less in different years. In order to afford a comparison of the total catch of the more important species on a uniform basis, the quantities salted by the fishermen have been converted to the equivalent of weights of fresh fish, and the total catch of each species is shown as in the fresh condition in the tables below. Varying practices in salting fish make it difficult to determine the actual shrinkage that may have occurred when the fresh fish were salted, but the losses in salting of various species are thought to be approximately as follows: Alewives, croaker, mullet, shad, and spot, 33¹/₃ per cent; bluefish, sheepshead, Spanish mackerel, squeteague, and striped bass, 50 per cent; red and black drum, 65 per

tidmini al 888,810
cent. These figures were used as a basis for converting the salt fish to a fresh-fish basis throughout the comparisons. The statistics on oysters, clams, and scallops are given in pounds and represent the meat or edible portion only.

Certain species of importance occurring in all of the South Atlantic -States have been assembled in the first of the following tables. It is interesting to note that of the seven fishery products listed, only shrimp have shown a continuously increased production during years for which statistics are available. This product has increased from comparative insignificance in 1897 to a commodity of first importance in 1923, its production in the latter year exceeding 23,000,000 pounds, as compared with about 600,000 pounds in 1897. The production of oysters reached its peak in 1908, when nearly 30,000,000 pounds were reported; in 1918 the production had dropped below 6,000,000 pounds, and in 1923 it increased again to over 11,000,000 pounds, which is approximately one-third of the maximum production recorded. Of the fishes, shad is probably of most interest. In 1897 this species showed the greatest yield—over 11,000,000 pounds. In 1897 Since then the decline was continuous until 1918 and 1923, when about 3,000,000 pounds were reported. The production of alewives, amounting to 22,000,000 pounds in 1890, dropped to less than 14,000,000 pounds in 1908, increased again to 18,000,000 pounds in 1918, and then decreased to 10,000,000 pounds in 1923. This is the lowest production on record and is less than one-half of the peak production. Mullet, one of the staple food fishes of the South, reached its maximum production of 16,000,000 pounds in 1902, and the catch has since declined continuously, until in 1923 its production totaled less than 9,000,000 pounds. Squeteagues and drum attained their maximum production in 1908 and have since shown a distinct reduction in yield. It is apparent that the most important food fishes of the South Atlantic States are being caught in alarmingly smaller quantities in the recent years than in the earlier years of the fishery. Reference to tables showing the yield of certain species in each of the States also reveals a strikingly lower production of many of the more important fishes in recent years as compared with the previous years.

The following tables give comparative statistics of the yield of certain fishery products in the South Atlantic States in various years, 1889 to 1923.

Comparative statistics	of the yield of certain	fishery products	of the	south	Atlantic
the state of the state of the state of	States in various year	s, 1889 to 1923			

Year	Alewives	Drum, red and black	Mullet	Shad	Squeteague or "sea trout"	Shrimp	Oysters
1889 1890 1897 1902 1908 1918 1923	Pounds 19, 389, 254 22, 174, 325 20, 906, 968 15, 601, 672 13, 782, 000 18, 057, 523 10, 050, 922	Pounds 1, 038, 197 745, 605 846, 683 583, 394 1, 421, 000 1, 007, 311 460, 437	Pounds 5, 990, 867 7, 065, 944 7, 281, 722 16, 034, 101 15, 489, 200 11, 986, 343 8, 667, 412	Pounds 8, 387, 428 9, 432, 029 11, 268, 343 9, 849, 338 8, 572, 000 2, 888, 644 3, 190, 666	Pounds 2, 460, 950 2, 613, 584 3, 824, 770 5, 050, 419 8, 628, 000 5, 105, 329 5, 258, 047	Pounds 743, 640 744, 025 627, 221 3, 810, 641 5, 697, 000 15, 656, 903 23, 705, 901	Pounds 8, 895, 572 8, 344, 805 11, 285, 268 22, 719, 074 29, 973, 000 5, 871, 376 11, 172, 336

Comparataive	statistics	of th	e yield	of	certain	fishery	products	of	North	Carolina	in
Information and					ars, 188						

Species	1889	1890	1897	1902	1908	1918	1923
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Alewives	19, 316, 094	22, 111, 605	20, 838, 555	15, 173, 475	12, 530, 000	17, 355, 758	8, 988, 922
Bluefish		1, 539, 008	1,909,975	1,049,342	1, 257, 800	322,744	896.694
Butterfish	-, -, -,	-,,,	94, 750	83, 218	1, 302, 000	731, 257	819, 806
Croaker	327, 868	353, 525		1, 938, 635	1, 177, 000	386, 807	2, 262, 308
Drum, red and							
black	515, 290	219, 417	230, 801	211, 309	343,000	99, 546	247, 237
Eels		160, 615	96,700	507, 111	258,000	174, 541	179, 526
Flounders	48, 200	48,630	173, 975	261, 762	403,000	91, 121	332, 773
Menhaden		12, 410, 400	11, 310, 000	18, 862, 000	57, 412, 000	179, 910, 599	63, 289, 940
Mullet		4, 891, 564	4, 715, 665	8, 428, 785	6,013,700	1, 285, 704	1, 933, 212
Pompano		9,750	53, 175	19, 590	11,000	8, 685	49, 547
Sea bass	228, 900	33,075	189, 225	57, 250	72,000	111,650	102, 265
Shad		5, 815, 088	8, 963, 488	6, 566, 724	3, 942, 000	1,657,036	2, 370, 134
Sheepshead	187, 202	202, 025	271, 206	154, 929	249,000	26, 223	51, 685
Spanish mackerel		100, 050	330, 840	354, 084	457,000	149, 440	182, 941
Spot	440, 565	498, 810	(1)	977.095	852,000	1, 257, 508	1, 789, 973
Squeteagues		2, 131, 194	3, 173, 750	3, 983, 606	4, 648, 000	3, 361, 406	3, 984, 347
Striped bass		573, 841	845, 123	1, 175, 400	510,000	286, 528	477,001
Sturgeon		175, 210	404, 125	144, 705	62,000	7, 587	19, 159
Crabs		47,400	1,026,720	203, 441	390,000	379, 310	513, 646
Shrimp	135, 240	144, 200	146, 496	84, 160	371,000	940, 120	1, 658, 476
Clams, hard			937, 808	1, 175, 176	726,000-	197, 576	263, 536
Oysters, market	7,011,340	5, 650, 820	6,011,726	7, 159, 691	5, 275, 000	1, 518, 734	3, 917, 396
Scallops		18,000	118, 323	13,020	(1)	422, 832	554, 574

1 Statistics not available.

Comparative statistics of the yield of certain fishery products of South Carolina in various years, 1889 to 1923

Species	1889	1890	1897	1902	1908	1918	1923
Alewives	Pounds 37, 160	Pounds 28, 600	Pounds 2,000	Pounds	Pounds	Pounds 9,500	Pounds
Bluefish	110,060	100,480	40,000	1,000	7,400	3,000	7,000
Croaker	(1)	(1)	(1)	27,000	85,000	16,000	26,000
Drum, red and black	261, 175	273,028	325,000	177, 200	109,000	6,000	44,050
Flounders	201, 110	210, 020	020,000	1,900	4,700	16,200	27,650
Mullet	464,400	552, 813	61,000	138,600	708, 500	272, 100	532,000
Sea bass	886, 274	826, 164	632, 400	709, 545	491,000	132,000	218,000
Shad	577.457	563, 259	506, 125	434, 133	464,000	167, 462	183, 916
Sheepshead	38,640	39,100	36,200	26,650	20,000	2,100	1,000
Spot.	(1)	(1)	(1)	21,800	66,000	75, 325	131, 500
Squeteague	116, 113	103, 106	80,000	85,700	183,000	59,150	70, 300
Striped bass	10, 785	11,560	10,100	9,800	5,000	00,100	.0,000
Sturgeon	284, 730	216,099	480, 905	94, 150	(1)	117,890	49,981
Crabs, hard	86, 230	93, 260	110,000	96, 200	33,000	18,000	9,000
Shrimp	380, 400	371, 840	374, 500	369, 500	452,000	55, 400	355,000
Clams, hard	, 200	, 010	185, 400	225,064	76,000	800	85, 640
Oysters, market	305, 340	442,050	1, 504, 300	4,827,900	10, 941, 000	2, 783, 830	5,032,342

¹ Statistics not available.

Comparative statistics of the yield of certain fishery products of Georgia in various years, 1889 to 1923

Species	1889	1890	1897	1902	1908	1918	1923
Alewiyes	Pounds 36,000	Pounds 24,000	Pounds 25,000	Pounds 22,500	Pounds 32,000	Pounds	Pounds
Drum, red and black Flounders	48,675	53, 870	38, 100 6, 500	60,000 2,600	151,000 7,200	1,674 10,800	600 200
Groupers Menhaden				50, 000	160, 000	27, 758 29, 484, 600	11, 413 26, 973, 000
Mullet Sea bass	57, 425 8, 200	52,740	56,000	125, 800 76, 500	194,000 233,000	10,650 292,615	4,000 104,090
Shad Sheepshead	356, 352 5, 165	399, 660 5, 000	787, 550	1,029,050	1, 333, 000	100, 540	133, 750
Snapper, red			25,000	50, 000 125, 000	64, 000 880, 000	112, 349	104, 970
Squeteague Striped bass	130, 337 13, 260	144,000 9,000	54,650 9,000	82, 550 2, 500	140,000 8,900	39, 550 125	5,000 360
Sturgeon Crabs, hard	212, 235 43, 267	83, 560 47, 866	157,300 74,660	80,000	100,000 196,000	39, 150 8, 455	32,038 120,000
Shrimp Oysters, market	150,000 1,142,400	162, 160 1, 570, 485	67, 600 3, 406, 440	344, 127 8, 568, 000	528,000 10,053,000	5, 793, 465 1, 109, 822	10, 668, 380

Comparative statistics of the yield of certain fishery products of the east coast of Florida in various years, 1889 to 1923

Species	1889	1890	1897	1902	1908	1918	1923
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Alewives		10, 120	41, 413	405, 697	1, 220, 000	692, 265	1,062,000
Bluefish	5, 240	7,310	46, 421	79, 500	372,000	561, 301	1, 100, 550
Bream and sunfish	497, 305	588, 190	248, 989	643, 514	1, 409, 000		476, 809
Croaker	(1)	(1)	(1)	6, 593	92,000		
Drum, red and black	213, 057	199, 290	252, 782	134, 885			
Flounders		,		49, 380	99,000		
Groupers				26, 910		74, 783	17,200
Menhaden	8,000					48, 362, 600	57, 918, 030
Mullet	1, 216, 316	1, 568, 827	2, 449, 057	7, 340, 916	8, 573, 000	10, 417, 889	6, 198, 200
Pompano	12,434	30, 135	196, 344	265, 231	276,000	133, 419	60,650
Sea bass	10,800	10, 445	5, 570	29,800	110,000	41, 331	
Shad	2,051,033	2, 654, 022	1,011,180	1, 819, 431	2,833,000		
Sheepshead	264, 491	274, 113	390, 164	404, 251	1,098,000	104, 303	32, 100
Snapper, red	1993 BUS			20,000	60,000	20, 200	11,600
Snapper, other				8,043	110,000	264, 264	149,600
Spanish mackerel			3,450	659,088	1,228,000	3,061,965	2, 469, 400
Spot	(1)	(1)	(1)	32, 451	130,000	393,030	71,700
Squeteague	243, 381	235, 284	516, 370	898, 563	3,657,000	1,645,223	1, 198, 400
Sturgeon	42,620	29,930			55,000		
Crabs, hard	3,000	4,100	3,700	6,066	146,000	52,000	72,000
Shrimp	78,000	65, 825	38, 625	3, 012, 854	4,346,000	8, 867, 918	11, 024, 045
Oysters, market	436, 492	681, 450	362, 802	2, 163, 483	3,704,000	458, 990	502, 264

¹ Statistics not available.

MENHADEN INDUSTRY

The menhaden industry of the South Atlantic States in 1923 was prosecuted in North Carolina, Georgia, and on the east coast of Florida. There were 20 factories in operation, having a value of The cash or working capital employed amounted to \$1,835,751. \$212,000. There were 906 persons engaged in the factories, and the wages paid amounted to \$175,215. The vessels and boats employed included 6 steam vessels, 39 gas vessels, 1 transporting vessel, and 3 motor boats, having a value of \$965,029. The tonnage of the vessels was 2,138 net tons, and there were 997 fishermen. There were 49 purse seines used with vessels and boats, and the catch amounted to 148,180,970 pounds, or 246,968,283 in number, valued at \$752,026. In addition to this there were 16,309,167 pounds or 27,181,945 menhaden, valued at \$83,176, delivered to the menhaden firms by vessels other than those having their home ports in the South Atlantic States, making a total of 164,490,137 pounds, or 274,150,228 menhaden, valued at \$835,202, utilized by these firms. Of the 20 menhaden factories 17 were located in North Carolina, but the greater part of the catch was taken in Georgia and on the east coast of Florida. The products, consisting of oil, fish scrap, and meal, in North Carolina were valued at \$738,743, and in Georgia and the east coast of Florida at \$593,008. The statistics are given in detail in the following ab \$522.591: nembrad an. 03.289.940 pounds, valued at : iab

SP6 624 pounds, valued at \$66,805; spot, 1,672,223 pounds freshand

Items	North (Carolina	Georgia an (east c		Tot	al
Firms Cash capital Shoresmen Wages paid Fishermen Vessels, steam Net tonnage Vet tonnage Vet tonnage Net tonnage Power boats Transporting vessels Net tonnage	Number 17 660 2 160 32 1,240 3 1 16	Value \$1, 508, 899 87, 000 119, 543 67, 400 492, 728 1, 500 6, 500	Number 3 115 337 4 353 7 369	Value \$326, 852 125, 000 55, 672 180, 833 216, 068	Number 20 906 513 399 1,609 3 1 1609	Value \$1, 835, 751 212, 000 175, 215 248, 233 708, 796 1, 500 6, 500
Purse seines: On steam vessels On gas vessels On boats	2 33 3	3,000 50,200 4,000	4 7	6, 100 10, 400	6 40 3	9, 100 60, 600 4, 000
Total	38	57, 200	11	16, 500	49	73, 700
Catch: By steam vesselspounds By gas vesselsdo By boatsdo	2, 292, 400 59, 497, 540 1, 500, 000	22, 930 295, 537 7, 500	33, 172, 260 51, 718, 770	161, 472 264, 587	35, 464, 660 111, 216, 310 1, 500, 000	184, 402 560, 124 7, 500
Totaldo	63, 289, 940	325, 967	84, 891, 030	426,059	1 148,180,970	752,026
Menhaden utilized ² do	79, 599, 107	409, 143	84, 891, 030	426,059	3 164,490,137	835, 202
Products: Oilgallons Dry scrap and mealtons Acidulated scrappounds	777, 829 4, 596 7, 068	349, 245 210, 712 178, 786	433, 700 5, 744 5, 168	181, 641 277, 327 134, 040	1, 211, 529 10, 340 12, 236	530, 886 488, 039 312, 826
Total		738, 743		593,008		1, 331, 751

Menhaden industry of the South Atlantic States, 1923

¹246,968,283 in number.

² This item includes in addition to the catch 16,309,167 pounds, or 27,181,945 menhaden, valued at \$83,176, delivered to North Carolina firms by vessels other than those having their home ports in the South Atlantic States. ³ 274,150,228 in number.

FISHERIES OF NORTH CAROLINA

The fisheries of North Carolina in 1923 furnished employment for 9,308 persons, of whom 6,246 were directly employed in fishing operations and the transporting of fish to landing points, 669 in the wholesale fishery trade, and 2,393 in the canning, by-products, and other fishery industries.

The investment in the fishing equipment and fishery industries amounted to \$4,198,894, of which \$1,244,653 were invested in fishing and transporting vessels and boats, \$523,286 in fishing gear, and \$2,430,955 in investment and cash capital used in the fish trade and industries.

The production of fishery products by fishermen amounted to 95,192,343 pounds, valued at \$2,414,499, of which 88,275,269 pounds, valued at \$1,990,083, were fish, and 6,917,074 pounds, valued at \$424,416, were shellfish. Some of the more important fishes, arranged in order of value, were the following: Shad, 2,370,134 pounds, valued at \$582,591; menhaden, 63,289,940 pounds, valued at \$325,-967; squeteagues, 3,984,347 pounds, valued at \$250,847, of which 3,070,437 pounds, valued at \$134,531, were gray "trout" and 913,910 pounds, valued at \$116,316, were speckled "trout"; mullet, 1,379,712 pounds fresh and 369,000 pounds salted, valued at \$148,769; ale-wives, 1,589,347 pounds fresh and 4,933,050 pounds salted, valued at \$119,404; striped bass, 477,001 pounds, valed at \$75,953; bluefish, 896,694 pounds, valued at \$66,805; spot, 1,672,223 pounds fresh and 78,500 pounds salted, valued at \$60,397; and croakers, 2,262,308

pounds, valued at \$53,993. Of the shellfish the following, arranged in order of value, were most important: Oysters, 3,904,446 pounds from public beds and 12,950 pounds from private beds, valued at \$229,576; hard clams, 263,536 pounds, valued at \$64,064; shrimp, 1,658,476 pounds, valued at \$50,772; and scallops, 554,574 pounds, valued at \$46,214.

Compared with 1918 there was an increase in the number of persons employed of 1,272, or 15.83 per cent, but a decrease in the investment of \$23,149, or 0.55 per cent. There was also a decrease in the products of 115,309,407 pounds, or 54.78 per cent, in quantity and of \$564,209, or 18.94 per cent, in value. The decrease in production was due to a falling off in the catch of menhaden.

The following tables give the number of persons employed, investment, and products of the fisheries of North Carolina, by counties, in 1923:

Persons engaged in the fisheries of North Carolina in 1923, by counties

Counties	On vessels fishing	On vessels transport- ing	In shore fisheries	Shoresmen	Total
Beaufort Bertie	- 51	9	155 23 25	150 16	365 39 25
Bladen Brunswick Camden	- 189	8	583 6	301	1,081
Carteret Chowan	- 630	22	1,297 193	1,546 108	3, 495 301
Craven Cumberland	- 3	1	51 50	10	65 50
Currituck Dare Duplin	- 9	2	298 697 75	73	298 781 75
Gates Hertford			38 20	10	38 30
Hyde Jones	- 21	2	$230 \\ 2$	4	257 2
Martin New Hanover				$\begin{array}{c} 34 \\ 547 \end{array}$	101 1, 111
Onslow Pamlico	- 85	2	185 194	$\begin{array}{c} 24\\159\\12\end{array}$	209 440
Pasquotank Pender			$ \begin{array}{r} 36 \\ 157 \\ 58 \end{array} $	10	53 157 58
Perquimans Tyrrell Washington		5	88 108	5 65	93 178
Total	1,055	51	5, 140	3,062	9,308

Investment in the fisheries of North Carolina in 1923, by counties

Items	Bea	ufort	Be	rtie	Bla	den	Brun	swick
Vessels fishing: Gasoline	Number 1	Value \$700	Number	Value	Number	Value	Number 12	Value \$161, 300
Tonnage Outfit	9	30					414	22, 870
Sail Tonnage	16 125	13,700						
Outfit Accessory gasoline boats	9	1,720 1,150						
Vessels transporting: Gasoline	5	12, 300					4	14,000
Tonnage Outfit	40	6,460					54	1,625
Sail Tonnage							1 16	4,000
Outfit Power boats	49	9,000	5	\$675			43	375 42, 900
Sailboats	70	2,200	10	145	25	\$150	219	3, 185
Apparatus, vessel fisheries: Purse seines						-letat	10	17, 500
Otter trawls Dredges		908					2	110
Tought	DI	000						

Investment in the fisheries of North Carolina in 1923, by counties-Continued

Items	Bea	aufort	В	ertic	Bl	aden	Brun	swick
Apparatus, shore fisheries: Haul seines Gill nets	8 424	\$3, 40 2, 41	0		e Numbe	\$350	Number 21 59	Value \$2,630 1,360
Pound nets Eel pots		12, 11						
Otter trawls		30					34	1,955
Oyster dredges	14	35	0					
Tongs and rakes							216	567
Shore and accessory property				- 2,00)	- 50		508, 440
Cash capital		34, 50	_					34, 500
Total		211, 843	3	- 7, 34	0	- 550		817, 317
Items	Cam	iden	Cart	eret	Cho	wan	Crav	ren
Vessels fishing: Steam	Number		Number 1	Value		Value.	Number	Value
Tonnage			19	\$35, 50				
Gasoline			48	304, 18)			
Tonnage			1,058					
Outfit				68, 60,				
Sail			22	17, 60,			1	\$500
Tonnage			196	E 00			8	
Outfit Accessory gasoline boats	11011050	1011111	44	5, 99 21, 15	5		1	225 150
Vessels transporting:			10		1. 1. 1			
Gasoline Tonnage			16 - 141	21, 20)		1 12	1, 500
Outfit			141	10,000			12	2, 500
Sail			1	30				2,000
Tonnage			7					
Outfit Power boats	3	\$475	563	20 141, 87		\$10, 225	14	3, 300
Sailboats	0	φ±10	55	3, 07		\$10, 220	14	5, 500
Rowboats, etc	2	50	393	7, 78		2,745	27	661
Apparatus, vessel fisheries:		- 10.12						
Purse seines Haul seines			23 34	32, 70 21, 20				
Lines			94	13				1111111
Dredges			46	1, 35			2	100
Tongs			38	21				
Purse seines			- 3	4,000				L. CENOL
Haul seines			135	25, 85,			7	675
Gill nets Pound nets	50	400	3,013 264	22, 959		4,920	191	826
Fyke nets	44	330	204	17, 66	000	64, 375		
Lines				50)			200 Date
Eel pots	40	130	150	373				
Spears			22	4				
Otter trawls Scallop dredges			14 651	463 3, 264				
Ovster dredges		in the second second	2	5, 203				
Tongs and rakes			430	1, 11				
Other apparatus				415	2			
Shore and accessory property		50		631, 18		18, 150		8, 225
Cash capital		10.3.31		92, 100	-	10010110		6, 500
Total		1, 435	1	1, 492, 594	l	100, 415		25, 162
Items	Cumb	erland	Curri	tuck	Da	ire	Du	plin
Vessels fishing:	Number	Value	Number	Value	Number	Value	Number	Value
Gasoline					1	\$4,000		
Tonnage Outfit					9 -	75		
Sail		Normal St.	and shared by		2	1,000	A STATE OF ALL A	
Tonnage		1	S. J. 11	A	14 .			
Outnt			·····			135		
Vessels transporting: Gasoline		1. 19	19,21	001098	1	1,000	a strik	A.D.
1 onnage					8 .	1,000		
Outnt		100 B 100 B				300		
Power boats			162	\$16, 865	236	50, 325		
Sailboats Rowboats, etc		\$125	28	707	239	400 8, 601	35	\$215.
Rowboats, etc. Apparatus, vessel fisheries:	40	1.1.1	00 0 20	101	209	0,001	30	\$213
Dredges	et a line		1. 2.2		4	100		inodlies.
Tongs	0.00				2	15		00.0202
Apparatus, shore fisheries: Purse seines			12.314	S Stall		1 000	2.10 44	Para
Haul seines			143	10,635	6 100	1,200 12,479	10	400
	25		UTU	10,000	1001	14, 110		100

Investment in the fisheries of North Carolina in 1923, by counties-Continued

Items	Cumb	erland	Curr	ituck	D	are	Du	plin
Apparatus, shore fisheries—Contd. Pound nets Fyke nets	Number	Value	Number 37 395	Value \$2, 175 3, 5 85	Number 1, 187	Value 119, 117	Number	
Lines Eel pots Oyster dredges Tongs and rakes			2, 820	3, 028	810 2 19	\$225 940 35 89		
Other apparatus Snore and accessory property Cash capital		\$250		7, 350		$ \begin{array}{r} 100 \\ 69,023 \\ 2,500 \end{array} $		
Total		635		45, 370		281, 894		1,090
Items	Ga	tes	Hert	ford	H	yde	Joi	ıes
Vessels fishing: Sail	Number	Value	Number	Value	Number 7	Value \$3, 850	Number	
Tonnage Outfit						990		
A ccessory gasoline boats						700		
Sail Outfit					$\begin{bmatrix} 1\\ 6 \end{bmatrix}$	600 75	in a lasto (
Power boats	1	\$100	2	\$200	86 27			
Rowboats, etc	32	350	8	140	31	885 285	2	\$3(
Dredges Apparatus, shore fisheries: Haul seines	· · · · · · · · · · · · · · · · · · ·		3		14			
Gill nets Pound nets Fyke nets	47 8 36	425 400 370	14 14	400 95 700	7 1, 153 157	950 4, 150 17, 900	2	
Lines Eel pots Spears					12			
Oyster dredges Tongs and rakes					26 134	390 809		
Shore and accessory property Cash capital		200		225		6, 550 2, 000		20
Total		1,845		1,760		64, 616		80

Items	Ma	rtin	New I	Ianover	Ons	low	Pan	nlico
Vessels fishing: Steam	Number	Value	Number	Value \$57, 000			Number	91
Tonnage Outfit			100	10,400				
Sail Tonnage							25	\$28, 375
Outfit Accessory gasoline boats Vessels transporting:							23	2, 635 2, 800
Gasoline Tonnage							$\begin{array}{c}2\\12\end{array}$	2,000
Outfit Power boats Sailboats	3	\$1, 100	3	2, 425	15	\$2, 465	56 17	1, 300 13, 625 4, 200
Rowboats, etc Apparatus, vessel fisheries: Purse seines	18		240	6, 540 3, 000	143	2,066	79	1, 645
Dredges			-	5,000			50	1, 177
Apparatus, shore fisheries: Haul seines Gill nets Pound nets	4 3	2,600	37 243	3, 000 6, 250	157	560 2, 818	1112 単常	2, 150 2, 150 8, 125
Lines Eel pots								207
Spears			70	70			34	F00
Oyster dredges Tongs and rakes Other apparatus			60	45	35	162		590 150
Shore and accessory property Cash capital		5, 090		715, 450 31, 000		4, 120 3, 500		47, 245 16, 500
Total		9, 981		835, 480		15, 691		134, 874

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U. S. BUREAU OF FISHERIES

Investment in the fisheries of North Carolina in 1923, by counties-Continued

allened" a	Items		Pasqu	otank	Pen	der	Perqu	imans
Vessels fishing: Gasoline		minity.	Number 2 16	Value \$1, 800	Number	Value	Number	Value
Sau	ze		10	250 1, 200				
Outfit.		*******	16 15	50 3, 800 455	4 132	\$800 1,060	18 22	\$3, 400 515
Dredges Apparatus, sho			6	150		1, 100		
Gill nets Pound nets	3			5, 315 810	53	960	421 34	6, 690 1, 700
Eel pots			45	67	55	30		
Shore and acce	rakes ssory property			31, 200 10, 000	48	225 565		3, 175
				55, 097		4, 740		15, 480

Items	Ту	rrell	Wash	ington	То	tal
Vessels fishing: Steam Tonnage Outfit					Number 3 179	Value \$92, 500
Gasoline Tonnage Outfit					64 1, 506	471, 980
Sail Tonnage Outfit				*********	74 667	66, 230 11, 753
Accessory gasoline boats Vessels transporting:					82	25, 950
Gasoline Tonnage Outfit				\$6,000 350	30 273	58,000 22,535
Sail Tonnage Outfit					3 29	4,900
Power boats		\$4, 635 850	19	3, 200	1, 384 110 1, 892	330, 930 14, 780 42, 215
Apparatus, vessel fisheries: Purse seines Haul seines	nahana Z.				35 34	53, 200 21, 200
Lines Otter trawls Dredges					2 156	130 110 4,070
Tongs Apparatus, shore fisheries: Purse seines.					40 9	226 5, 200
Haul seines Gill nets Pound nets Fyke nets	655 80	6, 370 4, 995	2 160 98	8,000 2,395 5,600	529 12, 518 2, 873 548	74, 834 82, 923 259, 382 5, 095
Lines Eel pots Spears					4, 129	5,000 577 5,070 155
Otter trawls Scallop dredges Oyster dredges					48 651 78	2, 418 3, 265 1, 415
Tongs and rakes Other apparatus Shore and accessory property		5, 790			971	3, 158 858 2, 197, 855
Cash capital Total				50, 965		233, 100 4, 198, 894

189.8

Yield of the fisheries of North Carolina in 1923, by counties and species

Species	Beau	fort	Bei	rtie	Bla	den	Brunsv	vick
Alewives, fresh	Pounds 160, 795	Value \$1,850	Pounds 22, 832	Value \$330	Pounds	Value	Pounds	Value
Alewives, salted	100, 755	φ1,000	111. 550	2,123				
Angel fish	475	34	111,000	2, 120				
Black bass	4,600	455	180	45				
Bluefish	1,215	85	100	10				
Butterfish	1,400	35						
Catfish		435	975	37			1,300	\$130
			915				1, 500	
Croaker	52, 940	2,017					4, 425	241
Drum, black								114
Drum, red, or redfish	7,200	250					13, 825	1, 323
Eels	21, 475	2,940	50	6				
Flounders	3,973	296	50	32				1,025
Gizzard shad			200	2				
Hickory shad	71,854	4, 524	1,200	98			110	22
King whiting	10000			100.000	and mail		9,350	378
Menhaden							20, 289, 600	99, 398
Mullet, fresh	13,000	1,200			and the second second		32, 500	2,840
Mullet, salted							340,050	34, 515
Pigfish	79.015	1,621		mersorius	1		70	01,01
Pike	1.750	140	100					
Pinfish, or sailor's choice	3,900	84	100	20			1.075	101
Shad	70, 216	14.037	7 555	1 860	6,000	\$1 600	1,750	385
Sheepshead	10, 210	14,007	1,000					158
Spanish mackerel	720	89						150
Spanish mackerel			1000					
Spot, fresh	44, 615	1,818					23, 265	1, 136
Spot, salted								5,750
Squeteague ("sea trout"), gray_ Squeteague ("sea trout")	199, 714	6, 290						1,657
speckled	30, 906	4,829						- silizada
Striped bass	30, 895	3,915	3,425	684			3,800	760
Sunfish	1,550	88						aland.
White perch	7,515	439	1,095	110				Labelust
Yellow perch	40,280	2,027	100	8				Luci
Shrimp.		1000					1, 357, 684	40, 726
Clams, hard							104,000	26,000
Oysters, market, public		28, 125						92
Oysters, market, private	4,200	600					20,000	020
o jouro, market, private	1, 200	000						
Total	1, 235, 851	78, 239	149, 312	5, 335	6,000	1,600	22, 319, 994	217, 588

Species	Can	nden	Carte	ret	Chow	an	Crav	ren
Alewives, fresh Alewives, salted	Pounds 500	Value \$10	Pounds 24, 850	Value \$895	Pounds 633, 510 2, 787, 600	Value \$9, 992 46, 880	Pounds 36,000	Value \$280
Angel fish. Black bass	250	40	5,000	252				
Bluensh			511, 190	45,199				
Bonito Bowfin		16	37, 870	2, 557				
Butterfish. Carp, German Catfish.	500	180 20	177, 426	9, 350	4, 931 15, 715	297	2, 025 21, 400	21 428
Cero Croaker Drum, red, or redfish			1,139 1,734,495 96,470	34,700 3,347				2, 940
Eels Flounders	1,000	100	15, 535 70, 762	2, 325 3, 419	6, 585		1,100	654 20
Grunts Harvest fish or "starfish" Hickory shad	1108		1,100	$33 \\ 7,892$				
Hickory shad				3, 399 10, 971	62, 307			6
Menhaden			40, 707, 940	203, 639 34, 365				4, 180
Mullet, fresh Mullet, salted Pigfish			6, 800 277, 835	760 5, 714				
Pigfish Pinfish or sailor's choice Pompano			1,060 15,360	40 1, 501				
Red snapper				84 8, 247				
Shad Sheepshead	9,500	2,400	103, 319	26, 044 2, 322	201, 496	46, 303	205, 637	54, 510
Spanish mackerel Spot, fresh			131, 173 766, 248	$13,568 \\ 17,919$			36, 500	1, 460
Squeteague ("sea trout"), gray			815, 290	39, 073			33, 900	2, 712

Yield of the fisheries of North Carolina in 1923, by counties and species-Contd.

Species	Can	nden	Carte	ret	Chow	van	Crav	7en
Squeteague ("sea trout"), speckled	Pounds		Pounds 418, 900	Value \$46, 699	Pounds	Value		Value \$10, 950
Striped bass Sunfish Tautog	500 1,000	\$100 20	35, 990 75	6, 502	45, 650	\$7, 242	19, 425 2, 500	3, 622 150
White perch. Yellow perch. Crabs, soft		57 744	300 181, 996	54 27, 673	29, 660 5, 122	2, 972 398	23, 200 1, 750	2, 320 105
Shrimp Clams, hard Oysters, market, public			252, 792 115, 192 1, 591, 156	8,606 26,292 89,477			28,000	1, 800
Oysters, market, private Scallops Turtles			$1,750 \\ 554,574 \\ 300$	125 46, 214 7				
Total	27, 650	3, 687	49, 765, 511	729, 363	3, 792, 576	121, 469	608, 137	86, 170

Species	Cumb	erland	Currit	tuck	Da	re	Duj	plin
	Pounds	Talua	Pounds	Value	Pounds	Value	Pounds	Value
Aleminan fuch	Pounas							
Alewives, fresh			13,050	\$562	276, 228	\$11, 477	150	\$6
Alewives, salted			15,000	300	20, 400	254		
Angel fish					785	48		
Black bass			270, 750	39, 733	41, 145	4,884		
Bluefish			2, 200	176	326, 881	16, 555		
Bonito			800	19	4,400	112		
Bowfin			16,950	190	213	4	1	1.1.1.1.1.1.1
Butterfish			500	10	53, 264	3, 359		
Carp, German			179,037	9, 260	15, 649	519		
Catfish				1,643	36, 151	949	11200000	
Cod			. 11,020	1,010	340	10		
Croaker			10, 200	204	180, 078	6, 883		
Deven			10, 200	204				
Drum, black					154	5		
Drum, red, or redfish			1, 100	19	73, 938	3, 980		
Eels			95, 192	7, 980	23, 089	994		
Flounders			7,900	289	162, 991	9, 577		
Gizzard shad					504	10		
Harvest fish or "starfish"			1,550	31	155, 526	10,404		
Hickory shad			1,000	35	37, 419	2, 520	315	57
King whiting			38,000	760	230, 474	4, 925		
Mullet, fresh			00,000		50, 867	4, 032		
Pigfish					10,000	400		
Dilro			9 550	320		142	100000000000000000000000000000000000000	
Pike			3, 550		1,300			
Pompano			3, 500	166	22, 212	1,348		
Shad Sheepshead	9,500	\$2,200	11, 825	4,005	1, 164, 106	299, 972	3,970	1, 095
Sheepshead			2,000	138	9,375	568		
Spanish mackerel			1,050	105	25, 248	2, 124		
Spot, fresh			44,000	880	486, 345	15, 220		
Squeteague ("sea trout") grav	1.		10,600	444	1,072,128	53, 241		
Squeteague ("sea trout"),	10000	120 10 10 1	17.	1	The capture		Seal of Barry	Losuin.
speckled		- The Real	8,400	840	208, 828	27,692		10.01 46614
Striped bass		10	31, 490	5, 534	96,054	13, 062		000000
Sturgeon				0,001	13,964	2, 306		
Sturgeon earlier				10	305	2, 500		
Sturgeon caviar			1 200		305	095		
Suckers			1,300	13				
Sunfish			35, 965	412	285	15		
Tripletail					181	9		
White perch			203, 400	13, 943	31, 233	1, 591		
Yellow perch			151, 912	9,492	10, 250	400		
Other fish					163	5		
Crabs, hard		1	04.57		331, 350	5, 395		Destront
Crabs, soft			1.6		300	19		
Clams, hard	1	10.1.1.1	100		344	97		
Oysters, market, public					57. 288	4, 485	10000000	0700100
Terrapin			10010010010		360	120		
Turtles								
1 11 1105					8, 786	576		
Total	9, 500	2,200	1, 233, 247	97, 503	5, 240, 901	510, 881	4, 435	1, 158

Yield of the fisheries of North Carolina in 1923, by counties and species-Contd.

Species	Ga	tes	Hert	ford	Ну	də	Jon	es
Alewives, fresh	Pounds 14,000	Value \$174	Pounds 28, 600	Value \$359	Pounds 48, 400	Value \$1,079	Pounds 2,000	
Alewives, salted		390	42,000	630				
Black bass	_ 1,700	306	150	26				
Bluefish					28, 995	1,512		
Bowfin	_ 2,000	160						
Butterfish					43, 240	1,150		
Catfish		414	1,450	69			22222222	
Croaker		S			39,460	659		2012
Drum, red, or redfish					20,900	413		
Eels	100	10	150	15	250	13		0.050
Flounders Harvest fish or "starfish"	2/85.1.0				14,940	580		1.161
Harvest fish or "starfish"		1			144, 670	3,890		
Hickory shad		6.3	10000000		33.825	3,240	2 funda 15	0.000
Hickory shad King whiting	1.52 1 2	the de			20, 785	616	burbs pr	
Mullet, fresh					5,100	510	L.C. CHENG	
Mullet salted					22,150	4,030	1.1.00.0	
Pigfish					5,100	76		
Pigfish Pike	25	5	75	15	0,100	10		
Pompano	i		1	10	7.350	535		
Shad	0 962	9 051	950	200	180, 988	38,622		122223
Sheepshead	- 9,000	2,001	300	200	2,200	100		
Spanish mackerel					13, 450	1,345		
Spanish mackerer						417		
Spot, fresh					26,085			
Squeteague ("sea trout"), gray					569, 335	15,049		
Squeteague ("sea trout"), speckled					25,900	3,820		
Striped bass	- 100	15	300	45	21, 250	3,628		
White perch		1, 523	2,750	275	600	18		
Yellow perch		294	150	12	4,000	120		
Clams, hard					3, 200	600		
Oysters, market, public					538, 342	29, 478		
Total	85, 538	5, 342	76, 575	1,646	1, 820, 515	111, 500	2,000	40

Species	Mar	tin	New Ha	nover	Onsl	ow	Paml	ico
Alewives, fresh	Pounds 54,000	Value \$648	Pounds	Value	Pounds 130, 522	Value \$2, 292	Pounds 39, 710	Value \$1, 914
Angel fish Black bass	22222222	5,950	200	\$10			445 6,075	54 760
BluefishButterfish			6, 950		14, 853		1,910 23,160	174 721
Carp, German	200	6					6,600	184
Crevalle Croaker			325	$ \begin{array}{r} 16\\ 757 \end{array} $			127,600	3, 969
Drum, black			500	75			8,610	201
Drum, red, or redfish			15, 400 25, 400	3, 580			10,325 4,100	1, 326
Flounders Hickory shad	1,450	59	1,825	3, 580 366 350	61 900		4, 100 22, 410	1, 471
King whiting Menhaden			6,700 2,292,400	22,930	250, 990			3, 670
Mullet, fresh Pigfish			12, 250	32, 440 913			200	3, 670
Pike Pinfish or sailor's choice			250	$13 \\ 25$			7, 575	187
Pompano	2, 192	392		18, 586				12, 543
Sheepshead Spanish mackerel			4,400	700 7, 825	19,650	1.477		809 1, 920
Spot, fresh Squeteague ("sea trout"), gray			$105,500 \\ 1,665$	333	89, 470	7, 395	263, 735	8, 177
Squeteague ("sea trout"), speckled Striped bass	have a state		6, 300	1, 260	45, 376 6, 145	6,729 1,044	87, 300 17, 860	12, 222 3, 315
Sturgeon White perch	free and the second sec	864	4,800	800 25				163
Yellow perch Shrimp				1. 440			32, 725	1, 654
Clams, hard Oysters, market, public Oysters, market, private			18,000 28,000	5, 375 1, 400	12, 800 58, 415	3, 200 6, 021	1, 170, 995 7, 000	62, 790 500
Total	416, 642	8, 719	3, 056, 305	101, 654	705, 641	53, 014	1, 985, 962	119, 503

Yield of the fisheries of North Carolina in 1923, by counties and species-Contd.

	Species		Pasque	otank	Pen	der	Perqui	mans
Alewives, fresh	Tradads - 17th	Subscraft and	Pounds 10, 200	Value \$612	Pounds 125	Value \$3	Pounds 83, 975	Value \$719
Alewives, salted.				50	120	40	25,000	175
Angel fish			10,000	00	400	20	20,000	110
			3,636	509	400	20	425	70
Black bass			3,030	909	2,500	250	420	10
Bluefish			976	19			70	11111
Bowfin								
Carp, German				70			451	18
Catfish				813			2,844	* 85
Croaker					8,000	400		
Drum, red, or red	fish				8,000	460		
Eels				235			1,000	100
Flounders				43	14, 500	2, 220	377	25
Gizzard shad				92			3,665	73
Hickory shad			4,915	344	150	25	18,091	1,870
King whiting					3,000	120	Diepyt	1. Fell Market
Mullet, fresh	0.1		601	48	71,000	6,940	50	4
Pigfish					800	80		Contraction of the
Pike				131		and a start	85	8
Pompano.					250	25	0	Con date
Shad				11,863	3, 150	895	68,641	13, 703
Sheepshead				11,000	500	75	00,011	10,100
					78, 500	4, 575		
Squeteague ("sea	trout ??) grow				4,000	160		
Squeteague ("sea	trout), gray	d			9,000	1, 275		
				904	9,000	1, 275	18, 514	2.948
Striped bass				904	500	100	10, 514	
Stugeon								23
Suckers				3				
Sunfish				121				9
White perch				820				226
Yellow perch			4, 277	342			350	28
							50	8
Clams, hard					10,000	2,500		
Oysters, market,	public		29,050	2,450	29,400	1,400		
(The tell			153, 888	19, 469	243, 775	21, 523	226, 257	20,094

Species	Tyri	rell	Washin	gton	Total		
	Pounds	Value	Pounds	Value	Pounds	Value	
Alewives, fresh		\$25	7,900	\$99	1, 589, 347	\$33, 366	
Alewives, salted		3,771	1, 304, 000		4, 933, 050	86,038	
Angel fish		0,	1,001,000	-0,010	7,305	418	
Black bass	1 550	279	600	108	331, 161	47, 227	
Bluefish		2.0	000	100	896, 694	66, 805	
Bonito					43,070	2,688	
Bowfin					21,009	390	
Butterfish					298, 990	14,625	
Carp, German	1 495	49	875	25	209,147	10, 438	
Catfish	18 595	744	8 750	202	255, 318	6, 877	
Cero					1,139	124	
Cod					340	10	
Crevalle						16	
Croaker						53, 993	
Drum, black						194	
Drum, nad on redfah					245, 443	10, 763	
Drum, red, or redfish Eels	9 000		675	71	179, 526	17,036	
Flounders	2,000	200	010	11	332,773	22, 039	
					2, 150	22,039	
Garfish						177	
Gizzard shad						33	
Grunts Harvest fish or "starfish"					$1,100 \\ 520,816$	22, 217	
Harvest fish of "starfish"	10 000	1 070	10 000	1 457	320, 810	29, 598	
Hickory shad					381, 521	29, 598	
King whiting					560, 159		
Menhaden					63, 289, 940	325, 967	
Mullet, fresh					1,379,712	109, 464	
Mullet, salted					369,000	39, 305	
Pigfish					385, 270	8,823	
Pike	1,000	230	350	88		1,413	
Pinfish or sailor's choice					13,860	425	
Pompano					49, 547	3, 681	
Red snapper					1,200	84	
Sea bass					102, 265	8, 217	
Shad	59,850	13, 444	73, 726	15,872	2, 370, 134	582, 591	
Sheepshead Spanish mackerel					51, 685	3, 421	
Spanish mackerel	1. 101. Aller	U-bd	- Coloradora		182, 941	18, 740	
Spot, fresh					1, 672, 223	54, 647	
Spot, salted					78, 500	5,750	

Yield of the fisheries of North Carolina in 1923, by counties and species-Contd.

Species	Tyr	rell	Washin	gton	Total		
Squeteague ("sea trout"), gray	Pounds	Value	Pounds	Value	Pounds 3, 070, 437	Value \$134, 531	
Squeteague ("sea trout"), speckled Striped bass Sturgeon Sturgeon caviar	41,000	\$7,380	92, 775	\$14,358	18,854	116,316 75,953 3,129	
Suckers Sunfish					305 1, 394 42, 383	593 17 815	
Tautog Tripletail White perch	30, 170	3, 620	65, 750	4,729	75 181 438, 542	5 9 33,749	
Yellow perch Other fish Crabs, hard		315	790	68	268, 397 213 1 331, 350	16, 007 13 5, 395	
Crabs, soft Shrimp Clams, hard					² 182, 296 1, 658, 476 ³ 263, 536	27, 692 50, 772 64, 064	
Oysters, market, public Oysters, market, private				lautio	4 3, 904, 446	228, 351 1, 225	
Scallops Terrapin Furtles				2	⁶ 554, 574 360 9, 086	46, 214 120 583	
Total	453, 040	34, 120	1, 573, 091	62, 682	95, 192, 343	2, 414, 499	

¹ 994,050 in number. ³ 32,942 bushels. ⁵ 1,850 bushels. ⁵ 2546,888 in number. ⁴ 557,778 bushels. ⁶ 92,429 bushels. phone a

6 92,429 bushels.

FISHERIES BY APPARATUS

The vessel fisheries of North Carolina in 1923 employed 3 steamers, 64 motor vessels, 74 sailing vessels, and in addition 82 accessory gas boats, some of them employed as auxiliary power for sailing vessels and others in connection with the long-haul seine fishing. There were 35 purse seines, 34 haul seines, 2 otter trawls, 156 dredges, 40 tongs, and lines to the value of \$130 used in the vessel fisheries The total yield by all forms of apparatus used on vessels was 66,355,182 pounds, valued at \$543,167.

The catch by purse seines, consisting entirely of menhaden, and by far the most important apparatus in the vessel fishery, amounted to 61,789,940 pounds, valued at \$318,467. The catch by dredges, which was next in importance, consisted of 2,048,508 pounds or 292,644 bushels of oysters, valued at \$120,692, and 26,600 pounds of hard crabs, valued at \$500. Haul seines were third in importance, with a catch of 2,128,505 pounds, valued at \$71,439, most of which consisted of squeteagues, or "sea trout," and croaker. Next in order of value was the catch by lines, amounting to 132,220 pounds, valued at \$19,054, consisting largely of sea bass and bluefish. The catch by tongs, consisting of oysters, and the catch by otter trawls, consisting of shrimp, made up the remainder of the vield of the vessel fishery.

In the shore or boat fisheries the total yield by all forms of apparatus was 28,837,161 pounds, valued at \$1,871,332. The catch by pound nets, which were the most productive form of apparatus used in the shore fisheries, amounted to 9,279,555 pounds, valued at \$532,667. Some of the more important species taken in pound nets were alewives, 1,233,805 pounds fresh and 3,326,550 pounds salted, valued together at \$81,984; squeteagues, 1,781,808 pounds, valued at \$72,117; and shad, 1,110,678 pounds, valued at \$270,421.

A number of other species were taken in considerable quantities. The catch with purse and haul seines in the shore fisheries. also. amounted to 9,408,598 pounds, valued at \$444,599. The catch with purse seines was 1,516,023 pounds, valued at \$9,825, of which 1,500,000 pounds, valued at \$7,500, was menhaden, while the remainder consisted of striped bass and squeteagues. The catch with haul seines was 7,892,575 pounds, valued at \$434,774. Among the more important species taken in haul seines were alewives, 102,815 pounds fresh and 1,533,000 pounds salted, valued together at \$31,012; spot, 1,040,316 pounds fresh and 66,000 pounds salted, valued together at \$36,449; mullet, 582,474 pounds fresh and 271,000 pounds salted, valued together at \$74,296; and squeteagues, 826,536 pounds, valued at \$74,457. Various other species, as black bass, bluefish, German carp, catfish, croaker, red drum, king whiting, pigfish, striped bass, white perch, yellow perch, crabs, and shrimp, were also taken in large quantities. The yield by gill nets, which was much less in quantity but exceeded that of seines in value, amounted to 5,221,200 pounds, valued at \$581,849. The principal species included in the catch, in the order of their value, were shad, 1,182,898 pounds, valued at \$293,320; mullet, 796,060 pounds fresh and 98,000 pounds salted, valued together at \$74,377; squeteagues 775,697 pounds fresh and 202,006 pounds salted, valued together at \$73,968; bluefish 483,287 pounds, valued at \$30,680; and striped bass, 158,124 pounds valued at \$27,865. The catch taken with dredges, tongs, rakes, and hands totaled 2,506,697 pounds, valued at \$207,633. The catch consisted principally of oysters, scallops, and hard clams. A small quantity of soft crabs was also taken with rakes. Various species were taken with fyke nets, amounting to 210,121 pounds, valued at \$14,533, and with lines, 356,750 pounds, valued at \$8,678.

The catch with otter trawls amounted to 1,470,174 pounds, valued at \$44,250, of which 1,440,940 pounds, valued at \$43,287, were shrimp and the remainder consisted of various species of fish. The catch with eelpots consisted of 160,402 pounds of eels, valued at \$15,569 and with spears, 73,000 pounds of flounders, valued at \$7,280. With other forms of apparatus, such as stop nets, cast nets, dip nets, revolving traps, crab traps, drag nets, and turtle traps, there were taken 150,664 pounds of various species, valued at \$14,254. The largest item in this catch was 84,121 pounds of soft crabs, valued at \$12,592. The products of the vessel and shore fisheries are shown separately by counties in the appended tables:

Yield of the vessel fisheries of North Carolina in 1923, by counties, apparatus, and species

Apparatus and species	Bruns	wick	Cart	aret	New H	anover	Total		
Purse seines: Menhaden.	Pounds 20, 289, 600	Value \$99, 398	<i>Pounds</i> 39, 207, 940	Value \$196, 139	Pounds 2, 292, 400	Value \$22, 930	Pounds 61, 789, 940	Value \$318, 467	
Haul seines; Angel fish Bluefish Butterfish Croaker Drum, red Flounders	eolooqa III.aa III.aa III.eeuug III.eeuug	0 credit Carent 10 credit 10 credit	4,000 79,200 35,600 1,220,000 52,620 4,535	200 3,960 1,780 24,400 1,380 199	t lo 9 Sitter Fodds Sibera		$\begin{array}{r} 4,000\\79,200\\35,600\\1,220,000\\52,620\\4,535\end{array}$	200 3, 960 1, 780 24, 400 1, 380 199	
Harvest fish or "star- fish"			48,000	2,400			48,000	2,40	

375

Yield of the vessel fisheries of North Carolina in 1923, by counties, apparatus, and species—Continued

Apparatus and species	Bruns	wick	Carta	aret	New Ha	nover	Tota	al
agained - Jose Jamio	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
King whiting			11, 900	\$595			11,900	\$59
Pigfish			138,000	2,760			138,000	2,76
Pompano			6, 300	630			6, 300	63
Sheepshead			2,000	200			2,000	20
Spanish mackerel			3, 950	395			3,950	
							3,930	39
Spot			128,000	2, 560			128,000	2, 56
Squeteague (s e a	and the second	1.15 TO 1.55	19	1	and the second second	1.1.1.1.1.1.1.1.1.1	a day a straight	031002
trout"), gray			189, 200	9,460			189, 200	9,46
Squeteague (''s e a trout"), gray Squeteague (''s e a		1.0.1.1.		1. 19 19.25		and the states	Contraction of	13 (S1996)
trout"), speckled			205, 200	20, 520			205, 200	20, 52
14 C THERE END AND A	10.2	0			1			
Total	.a.24		2, 128, 505	71, 439			2, 128, 505	71, 43
in an	ada lega alta		The State of State					
Lines:	CONTRACT IN THE	1.1.1.1.1.1.1.1.1			1	9.0.0.000		a state of the state of
Angel fish			360	20			360	2
Bluefish			61,800	13,476			61,800	13,47
Flounders			900	50	2		900	5
Grunt	100 mil 1	1	800	24			800	2
Pigfish			300	9			300	Tolke
Pinfish or sailor's			000	3			000	
	and all the second	all see his a	000	26	and the Address	1.	000	ALL STREET
choice			660				660	2
Red snapper			700	49			700	4
Red snapper Sea bass			66, 700	5,400			66, 700	5,40
Total	100 100 100 100 100 100 100 100 100 100		132, 220	10.054			120,000	10.05
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			132, 220	19,054			132, 220	19,05
Otter trawls: Shrimp	50, 524	\$1, 515					50, 524	1, 51
Apparatus and species	Beau	fort	Cart	eret	Craven		Dar	е
Dredges:	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
							26, 600	\$50
Crabs, hard	The second second							
Oysters, market,	The state of the second s	and second in the local second			28,000	\$1,800	14,000	1,00
Oysters, market,	291, 200	\$22, 875	753, 963	\$42, 947	20,000			
Oysters, market, public	291, 200	\$22, 875	753, 963	\$42, 947	20,000		- 10	
Oysters, market, public. Oysters, market,	W 2.048, 19	a tik i bo	753, 963	\$42, 947	28,000		- 19	4
Oysters, market, public	291, 200 4, 200	\$22, 875 600	753, 963	\$42, 947				
Oysters, market, public Oysters, market, private	4, 200	600	F 262 103	<u></u>			40,600	1.50
Oysters, market, public Oysters, market,	W 2.048, 19	a tik i bo	753, 963 	\$42, 947 42, 947	28,000	1,800	40, 600	1, 50
Oysters, market, public Oysters, market, private Total	4, 200 295, 400	600	F 262 103	<u></u>			40, 600	1, 50
Oysters, market, public Oysters, market, private Total Pongs: Oysters, market,	4, 200	600	753, 963	42, 947	28,000			
Oysters, market, public Oysters, market, private Total	4, 200 295, 400	600	F 262 103	<u></u>			40, 600	<u>1, 50</u> 50
Oysters, market, public Oysters, market, private Total Fongs: Oysters, market,	4, 200 295, 400	600 23, 475	753, 963	42, 947	28,000	1,800		50
Oysters, market, public Oysters, market, private Total Fongs: Oysters, market, public	4, 200	600 23, 475	753, 963 171, 885	42, 947	28,000	1,800	7,000	50
Oysters, market, public Oysters, market, private Total Congs: Oysters, market, public	4, 200 295, 400 Hyd	600 23, 475	753, 963 171, 885 Pam	42, 947 11, 000 lico	28,000	1,800	7, 000 Tota	50 al
Oysters, market, public Oysters, market, private Total Congs: Oysters, market, public Apparatus and species Dredges:	4, 200	600 23, 475	753, 963 171, 885	42, 947	28,000	1,800	7,000 Tota Pounds	50 al Value
Oysters, market, public	4, 200 295, 400 Hyd	600 23, 475	753, 963 171, 885 Pam	42, 947 11, 000 lico	28,000	1,800	7, 000 Tota	50 al
Oysters, market, public	4, 200 295, 400 Hyo Pounds	600 23, 475 le Value	753, 963 171, 885 Pam Pounds	42, 947 11, 000 lico Value	28,000 Pasque Pounds	1,800 Dtank Value	7, 000 Tots Pounds 26, 600	50 al <i>Value</i> \$50
Oysters, market, public Oysters, market, private Total Congs: Oysters, market, public Apparatus and species Oredges: Crabs, hard Oysters, market, public	4, 200 295, 400 Hyd	600 23, 475	753, 963 171, 885 Pam	42, 947 11, 000 lico	28,000	1,800	7,000 Tota Pounds	50 al Value
Oysters, market, public Oysters, market, private Total Congs: Oysters, market, public Apparatus and species Oredges: Crabs, hard Oysters, market, public	4, 200 295, 400 Hyo Pounds 104, 300	600 23, 475 le Value	753, 963 171, 885 Pam Pounds	42, 947 11, 000 lico Value	28,000 Pasque Pounds	1,800 Dtank Value	7, 000 Tots Pounds 26, 600	50 al <i>Value</i> \$50
Oysters, market, public	4, 200 295, 400 Hyo Pounds	600 23, 475 le Value	753, 963 171, 885 Pam Pounds	42, 947 11, 000 lico Value	28,000 Pasque Pounds	1,800 Dtank Value	7,000 Tota Pounds 26,600 2,044,308	50 al <i>Value</i> \$50 120, 09
Oysters, market, public Oysters, market, private Total Congs: Oysters, market, public Apparatus and species Oredges: Crabs, hard Oysters, market, public	4, 200 295, 400 Hyo Pounds 104, 300	600 23, 475 le Value	753, 963 171, 885 Pam Pounds	42, 947 11, 000 lico Value	28,000 Pasque Pounds	1,800 Dtank Value	7, 000 Tots Pounds 26, 600	50 al <i>Value</i> \$50
Oysters, market, public Oysters, market, private Total Fongs: Oysters, market, public Apparatus and species Oredges: Crabs, hard Oysters, market, public	4, 200 295, 400 Hyo Pounds 104, 300	600 23, 475 le Value	753, 963 171, 885 Pam Pounds	42, 947 11, 000 lico Value	28,000 Pasque Pounds	1,800 Dtank Value	7,000 Tota Pounds 26,600 2,044,308	50 al <i>Value</i> \$50 120, 09
Oysters, market, public	4, 200 295, 400 	600 23, 475 le ¥6, 015	753, 963 171, 885 Pam Pounds 823, 795	42, 947 11, 000 lico Value \$43, 005	28,000 Pasqua Pounds 29,050	1,800 	7,000 Tots 26,600 2,044,308 4,200	50 Al <i>Value</i> \$50 120,09 60
Oysters, market, public	4, 200 295, 400 	600 23, 475 le ¥6, 015	753, 963 171, 885 Pam Pounds 823, 795	42, 947 11, 000 lico Value \$43, 005	28,000 Pasqua Pounds 29,050	1,800 	7,000 Tots 26,600 2,044,308 4,200	50 al Value \$50 120, 09 60

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species

Species	Carte	ret	Dar	re	Total		
Menhaden	Pounds 1, 500, 000	Value \$7, 500	Pounds	Value	Pounds 1, 500, 000	Value \$7, 500	
Squeteague, speckled	1,000,000	\$1,000	500	\$73	500	73	
Striped bass			15, 523	2, 252	15, 523	2, 252	
Total	1, 500, 000	7, 500	16, 023	2, 325	1, 516, 023	9, 825	

BY PURSE SEINES

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species—Continued

BY HAUL SEINES

Species	Bea	ufort	heres	Brun	swick	x	Cartaret			t Craven		
11, 10(1) 85(8)	13963	1	00 11		1	-		Sec. 1	1		TOLD W SK	12.32
Alewives, fresh	Pounds 40, 285	Valu \$42	24	ounds				ounds 5,000	1	\$50	Pounds 36,000	\$280
Angel fish Black bass								540	100	27		
Bluefish							18	6,045	1	2, 198		
Bonito								1,600	10	32	SCIDELLE.	
Butterfish			1				2	0, 475		784		
Carp, German											2,025	21
Catfish	28, 368		92			000				6, 903	21,400	428
Croaker Drum, red, or redfish	7, 150 4, 350		91	500		\$20		5,840 2,035		1, 903	73, 500	2, 940
Eels	8, 475						7	2,000		1, 000		
Flounders	1,280						1	3,842		687	2, 150	194
Garfish Harvest fish or ''starfish''											2, 150	20
Harvest fish or "starfish"								1,050		590		
Hickory shad	26, 859	1, 26						8,150		417	15361010	
King whiting Mullet, fresh				500 9,000		25 740		7,860 7,500		1,846 6,025	15, 500	1 550
Mullet, salted			27	1,000	27,		44	1,000	1	0, 020	15, 500	1,000
Pigfish	78, 165	1,60					12	4,600		2, 509		
Pompano								8, 145			Lorunged	
Shad	11, 141	2, 56	32					4, 265		1,725		
Sheepshead								1, 220		1,082		
Spanish mackerel								8, 535		3,800		
Spot, fresh Spot, salted	3, 890	31		7,300		335 800	41	7,950	1	9, 057	36, 500	1, 460
Squeteague, gray	7,800	33	18	2,000		200	12	6, 975		8,172	33,900	2,712
Squeteague, speckled	3, 880	65		2,000	1530	.00	18	4, 275		2,069	73,000	10,950
Striped bass	8, 190	1, 23	32								13, 200	2, 376
Sunfish	100	1	0						201	20110	0.0.20101	
White perch	5,900	30									8,100	810
Yellow perch Other fish ¹	24, 475	1, 22	4	100	1997			75		5		interet.
Crabs, soft				100				6, 543	14		1111111	
								5, 673				2011
Total	261, 808	11, 11		6, 400	8	00	S. de la	10,14	12	a hay have he	317, 425 Hert	23, 741
Total	261, 808	11, 11 urritu nds 1	ck Value	Pou	Da	re Va	lue	D Poun	up ds	lin Value	Hert Pounds	ford Value
TotalSpecies	261, 808	11, 11	ck	Pou 4	Da Inds , 000	re	lue 215	D Poun	up ds	lin Value \$3	Hert Pounds 15,000	ford
Total	261, 808	11, 11 urritu nds 1 450	ck Value \$42	Pou 4, 8,	Da nds ,000 ,000 613	re Va \$	lue 3215 160 37	D Poun	up ds 30	lin Value \$3	Hert Pounds 15,000 15,000	ford Value \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass	261, 808	11, 11 urritu nds 1 450 	ck Value \$42	Pou 4, 8, 40,	Da ands , 000 , 000 , 613 , 750	re Va \$ 4,	lue 215 160 37 830	D Poun	up ds 30	lin Value \$3	Hert Pounds 15,000 15,000	ford <i>Value</i> \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass Bluefish	261, 808	11, 11 urritu nds 1 450 700 3 200	ck Value \$42 9, 389 176	Pou 4, 8, 40, 43,	Da nds ,000 ,000 ,613 ,750 ,425	re Va \$ 4, 2,	lue 215 160 37 830 872	D Poun	ds 30	lin Value \$3	Hert Pounds 15,000 15,000	ford <i>Value</i> \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass Bluck bass Bluckish Bonito	261, 808 C Pou 2, 268, 2, 268, 2,	11, 11 arritu nds 1 450 700 3 200 800	ck Value \$42 9, 389 176 19	Pou 4, 8, 40, 43,	Da nds ,000 ,000 613 ,750 ,425 ,400	re Va \$ 4, 2,	lue 5215 160 37 830 872 112	D Poun	ds 30	lin Value \$3	Hert Pounds 15,000 15,000	ford Value \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass Bluck bass Bluck fish Bonito Bowfin	261, 808 C Pou 2, 268, 2, 15,	11, 11 arritu nds 1 450 700 3 200 800 000	ck Value \$42 9, 389 176 19 151	Pou 4, 8, 40, 43, 4,	Da nds ,000 ,000 613 ,750 ,425 ,400 100	re Va \$ 4, 2,	lue 215 160 37 830 872 112 2	Poun	ds 30	lin Value \$3	Hert Pounds 15,000 15,000	ford Value \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass Black bass	261, 808 Pou 2, 268, 2, 15, 15, 154,	11, 11 arritu nds 1 450 700 3 200 800 000 500 037	ck Value \$42 9, 389 176 19	Pou 4, 8, 40, 43, 4, 4, 2, 15,	Da mds ,000 ,000 613 ,750 ,425 ,400 100 ,300 ,000	re Va \$ 4, 2,	lue 5215 160 37 830 872 112	Poun 8	ds 30	lin Value \$3	Hert Pounds 15,000	ford <i>Value</i> \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass Bluck bass Butifish Bonito Bowfin Butterfish Carp, German Catfish	261, 808 Pou 2, 268, 2, 15, 154, 65,	11, 11 arritu nds 1 450 700 3 200 800 000 500 037	ck Value \$42 9, 389 176 19 151 10	Pou 4, 8, 40, 43, 4, 4, 2, 15,	Da mds ,000 ,000 ,613 ,750 ,425 ,400 100 ,300 ,000 ,075	re Va \$ 4, 2,	lue 215 160 37 830 872 112 2 46 490 238	D Poun 2	up ds 30	lin Value \$3	Hert Pounds 15,000	ford <i>Value</i> \$188 225
Total Species Alewives, fresh Alewives, salted Angel fish Black bass Bluefish Bowfin Bowfin Butterfish Carp, German Catfish Cod	261, 808 Pou 2, 268, 2, 15, 154, 65,	11, 11 aurritu nds 1 450	ck Value \$42 	Pou 4, 8, 40, 43, 4, 2, 15, 13,	Da mds ,000 ,000 ,613 ,750 ,425 ,400 ,100 ,300 ,000 ,075 ,182	re <i>Va</i> \$ 4, 2,	lue 215 160 37 830 872 112 2 46 490 238 5	Poun	ds 30	lin Value \$3	Hert	ford <i>Value</i> \$188 225
Total Species Out & Alewives, fresh Alewives, salted Angel fish Black bass Bluefish Bomito Bowfin Bowfin Butterfish Carp, German Catfish Card Croaker	261, 808 Pou 2, 268, 2, 15, 154, 65, 104, 105, 105, 105, 105, 105, 105, 105, 105	11, 11 aurritu nds 1 450	ck Value \$42 9, 389 176 19 151 10 7, 760	Pou 4, 8, 40, 43, 4, 2, 15, 13,	Da nds ,000 ,00	re <i>Va</i> \$ 4, 2,	lue 215 160 37 830 872 112 2 46 490 238 5 519	Poun	ds 30	lin Value \$3	Hert	ford Value \$188 225
TotalSpecies Alewives, freshAlewives, saltedAngel fishBlack bassBluck bassBluck ishButterfishButterfishButterfishCarp, GermanCarfishCodCroakerDrum, black	261, 808	11, 11 arritu nds 450 700 200 800 000 5500 037 526 200	ck Value \$42 9, 389 176 19 151 10 7, 760 1, 400 204	Pou 40, 43, 40, 43, 4, 15, 13, 105, 36	Da nds ,000 ,000 ,000 ,000 ,425 ,400 ,100 ,300 ,000 ,075 ,182 ,682 ,682 ,682 ,682 ,682 ,682	re <i>Va</i> \$ 4, 2, 3,	lue 5215 160 37 830 872 112 2 46 490 238 5 519 2	D Poun 	ds 30	lin Value \$3	Hert Pounds 15,000 15,000	ford Value \$188 225
Total Species Alewives, fresh Angel fish Black bass Bluefish Bowfin Butterfish Carp, German Catfish Cod Croaker Drum, black Drum, red, or redfish	261, 808	11, 11 arritu nds 450 700 200 800 000 5500 037 526 200	ck Value \$42 9, 389 176 19 151 7, 760 1, 400 204 19	Pou 40, 43, 40, 43, 4, 15, 13, 105, 36	Da nds ,000 ,000 ,000 ,000 ,425 ,400 ,100 ,300 ,000 ,075 ,182 ,682 ,682 ,682 ,682 ,682 ,682	re <i>Va</i> \$ 4, 2, 3,	lue 5215 160 37 830 872 112 2 46 490 238 5 519 2	D Poun 	ds 30	lin Value \$3	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	11, 11 arritu nds 450 700 200 800 000 5500 037 526 200	ck Value \$42 9, 389 176 19 151 10 7, 760 1, 400 204	Pou 4, 8, 40, 43, 4, 2, 15, 13, 105, 36, 51,	Da nds ,000 ,000 ,000 ,013 ,750 ,425 ,400 100 ,300 ,005 ,182 ,682 ,64	re Va \$ 4, 2, 3, 1, 2,	lue 215 160 37 830 872 112 2 46 490 238 5 519	D Poun	up ds 30	lin Value \$3	Hertt Pounds 15,000 15,000	ford Value \$188 225
TotalSpeciesS	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	11, 11 aurritu nds 1 450 700 3 200 3 200 3 500 50 526 200 100 900 550 000 550 000	ck Value \$42 9, 389 176 19 151 10 7, 760 1, 400 204 19 289 31 35	Pou 4, 8, 40, 43, 4, 2, 15, 13, 105, 36, 51, 6, 10,	Da mds ,000 ,000 ,000 ,000 ,425 ,400 ,100 ,300 ,075 182 64 829 832 832 800 000	re Va \$ 4, 2, 3, 1, 2,	lue 215 160 37 830 872 112 2 46 490 238 5 519 2 753 756 136 600	D Poun	ds 30	lin Value \$3	Hertt Pounds 15,000	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 1, 38, 38, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	11, 11 aurritu nds 1 450 700 3 200 3 200 3 500 50 526 200 100 900 550 000 550 000	ck Value \$42 9, 389 176 19 151 100 7, 760 1, 400 204 19 289 315 35 760	Pou 4, 8, 40, 43, 43, 4, 2, 15, 13, 105, 36, 51, 6, 10, 221,	Da Da 000 000 613 750 400 100 300 075 182 682 64 829 832 830 000 402	re Va \$ 4, 2, 3, 1, 2,	lue 215 160 37 830 872 112 2 46 490 238 5 519 2 266 136 600 470	D Poun	up ds 30	lin Value \$3	Hert	ford Value \$188 225
TotalSpecies Alewives, freshAlewives, saltedAngel fish Bluck bassBluck bassBluch fish BomitoBowfinButter fish Carp, German Catfish Cod Croaker Drum, black Drum, black Drum, black Drum, net, s. redfish Flunnet, starfish '' Harvest fish or ''starfish '' Hickory shad King whiting Mullet, fresh	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 1, 38, 38, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	11, 11 aurritu nds 1 450 700 3 200 3 200 3 500 50 526 200 100 900 550 000 550 000	ck Value \$42 9, 389 176 19 151 10 7, 760 1, 400 204 19 289 31 35	Pou 4, 8, 40, 43, 4, 2, 15, 13, 105, 36, 51, 6, 10, 221, 221,	Da nds ,000 ,000 613 ,750 ,425 ,400 100 075 182 682 682 682 832 832 832 832 832 832 832 8	re Va \$ 4, 2, 3, 1, 2, 4,	lue 2215 160 37 830 872 112 2 46 490 238 5 519 2 266 136 600 470 97	D Poun	up ds 30	lin Value \$3	Hertt Pounds 15,000	ford Value \$188 225
Total	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 7, 1, 38,	11, 11 arritu nds 450 700 200 800 000 526 200 100 900 550 000 000 000 500 000 000 000	ck Value \$42 9,389 176 19 151 10 7,760 204 204 19 289 31 35 760	Pou 4, 8, 40, 43, 4, 2, 15, 13, 105, 36, 51, 6, 6, 6, 10, 221, 2, 10,	Da nds ,000 ,000 613 ,750 ,425 ,400 100 ,000 000 000 0075 182 682 642 642 642 832 830 000 402 574 000 000 000 000 000 000 000 0	re Va \$ 4, 2, 3, 1, 2, 4, 4,	2112 2215 1160 37 8300 8722 246 4900 2388 519 2 2 519 2 2 5519 2 753 2666 6000 470 97 400	D Poun 	up ds 30	lin Value \$3	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 1, 1, 38,	11, 11 aurritu nds 450 700 3 200 800 000 500 037 526 200 100 900 550	ck Value \$42 9,389 176 19 151 10 7,760 1,400 204 19 289 31 35 760 320	Pou 4, 8, 40, 43, 44, 2, 15, 13, 105, 36, 51, 6, 100, 221, 2, 10, 1, 1, 10,	Da mds ,000 ,000 613 ,750 ,425 ,400 100 075 182 682 682 682 832 800 000 402 574 000	re Va \$ 4, 2, 3, 1, 2, 4,	llue 2215 160 37 830 872 112 2 46 490 238 5 519 2 753 266 136 600 97 400 142	D Poun	up ds 30	lin Value \$3	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 7, 1, 38, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	11, 11 arritu nds 450 700 800 000 500 037 526 200 100 900 550 000 550 550 500	ck Value \$42 99, 389 151 10 7, 760 204 19 289 31 35 760 320, 166	Pou 4, 8, 40, 43, 43, 43, 43, 43, 43, 43, 43, 43, 43	Da mds ,000 ,000 ,000 ,000 ,425 ,400 ,005 ,100 ,300 ,005 ,100 ,300 ,005 ,682 ,682 ,682 ,682 ,682 ,682 ,682 ,600 ,000 ,000 ,000 ,000 ,000 ,000 ,00	re Va \$ 4, 2, 3, 1, 2, 4, 4, 4, 1, 12, 1	lue 215 215 37 830 872 2 46 490 238 5 519 2 266 600 470 97 400 97 400 97 400 5 381	D Poun 	ds 30	lin Valuu \$3 	Hert	ford Value \$188 225 <tr< td=""></tr<>
Total	261, 808 Pou 268, 268, 2, 15, 154, 65, 10, 1, 1, 1, 38, 3, 2, 2, 2, 2, 2, 2, 2, 15, 15, 15, 15, 2, 15, 3, 2, 3, 2, 2, 2, 2, 2, 2, 2, 2, 15, 15, 15, 2, 15, 15, 2, 15, 15, 2, 15, 15, 2, 15, 15, 15, 2, 15, 15, 15, 2, 10, 10, 10, 10, 10, 10, 10, 10	11, 11 aurritu nds 450 700 3 200 800 000 500 037 526 200 100 550 550 500 000	ck Value \$42 9, 389 176 19 151 10 7, 760 1, 400 204 19 289 31 35 760 	$\begin{array}{c c} \hline Pou \\ \hline Pou \\ 3, 4, 8, 7, 7, 8, 8, 7, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10$	Da mds ,000 ,000 ,613 ,750 ,425 ,400 ,100 ,300 ,007 ,182 ,682 ,800 ,000 ,644 ,829 ,832 ,574 ,832 ,574 ,400 ,000 ,000 ,000 ,000 ,000 ,000 ,0	re Va \$ 4, 2, 3, 1, 2, 4, 4, 4, 1, 12,	lue 3215 160 37 830 872 112 2 46 490 238 5 519 2 753 266 136 600 470 97 4400 142 005 381	D Poun 8	up ds 30	lin Value \$3 	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 268, 2, 15, 154, 65, 10, 1, 1, 1, 38, 3, - 3, - 3, 2, 2,	11, 11 aurritu. nds 1 450 700 3 200 3 800 000 500 550 500 500 550 500 500 500 000 550 500 500	ck Value \$42 9, 389 151 151 10 7, 760 1, 400 204 19 289 31 35 760 204 19 289 31 35 760 166 138 105	$\begin{array}{c c} & & & \\ Pou \\ 4, \\ 8, \\ 40, \\ 43, \\ 4, \\ 2, \\ 15, \\ 13, \\ 105, \\ 36, \\ 51, \\ 6, \\ 6, \\ 10, \\ 221, \\ 21, \\ 21, \\ 21, \\ 36, \\ 51, \\ 6, \\ 6, \\ 10, \\ 221, \\ 36, \\ 51, \\ 6, \\ 6, \\ 6, \\ 6, \\ 6, \\ 6, \\ 6, \\ $	Da mds 000 613 750 000 613 425 440 100 075 182 64 829 800 000 64 829 800 000 574 000 620 035 200 900	re Va \$ 4, 2, 3, 1, 2, 4, 4, 4,	lue 215 160 37 872 46 490 238 519 2 753 266 6600 97 753 266 6600 97 142 905 381 136 6600 142 552 6552 655	D Poun 2 	up ds 30	lin Value \$3 	Hertt Pounds 15,000 15,000	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 15, 154, 65, 154, 65, 10, 1, 7, 1, 38, 3, 2, 1, 1, 44, 44, 44,	11, 11 arritu nds 1 700 3 800 000 500 037 526 200 100 900 550 000 000 550 000 550 000 550 000 550 000 550 000 550	ck Value \$42 99, 389 151 10 7, 760 1, 400 204 19 289 31 35 760 320, 166 138 880	Pou 4, 8, 40, 43, 43, 43, 44, 2, 15, 13, 105, 36, 51, 6, 10, 221, 2, 10, 19, 52, 9, 9, 6, 387, 9, 6, 387, 9, 53, 54, 54, 55, 19, 55, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	Da mds 0000 613 750 000 075 182 662 662 664 829 832 830 000 000 402 574 000 300 600 620 035 200 9900 476	re Va \$ 4, 2, 3, 1, 2, 4, 1, 12, 11	lue 3215 160 37 830 8372 112 2 460 238 5 5 9 2 753 2666 1366 6000 97 400 97 222 81 1552 622 81 1552 622 81 1552 622 81 1552 622 622 81 1552 6556 1556 6556 1556 6556 1556 1556 1556 1556 1557	D Poun \$ 	up ds 30	lin Valuu \$3 30 520	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 268, 268, 2, 15, 154, 65, 10, 1, 4, 38, 2, 1, 4, 2, 1, 4, 2, 1, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	11, 11 aurritu nds 450 700 3 200 800 000 500 037 526 200 100 550 550 500 000 550 600	ck Value \$42 9,389 176 19 151 100 7,760 204 19 289 31 355 760 320,166 138 105 880 444	Pou 4, 4, 2, 15, 13, 105, 36, 51, 6, 10, 221, 2, 10, 19, 52, 9, 6, 387, 119,	Da mds 000 613 750 425 400 100 0075 182 64 829 832 800 000 402 574 000 000 620 000 476 176	re Va \$ 4, 2, 3, 1, 2, 4, 1, 1, 5, 5	lue 215 160 837 830 872 246 490 238 519 22 266 600 97 753 381 1352 600 97 400 552 656 6574	D Poun 	up ds 30	lin Value \$3 	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 15, 154, 65, 10, 1, 1, 1, 38, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	11, 11 aurritu. nds 1 450 700 3 200 3 200 5 500 500 900 550 550 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	ck Value \$42 9,389 176 19 151 100 7,760 204 19 289 31 355 760 320,166 138 800 444	Pou 4, 8, 40, 43, 40, 43, 4, 2, 15, 13, 105, 36, 51, 6, 6, 10, 221, 2, 10, 1, 19, 52, 9, 6, 387, 119, 107,	Da mds 000 613 750 425 400 100 0075 182 64 829 832 800 000 402 574 000 000 620 000 476 176	re Va \$ 4, 2, 3, 1, 2, 4, 4, 1, 12, 11, 12, 13, (lue 1215 160 37 830 872 2 46 5 519 2 238 5 519 2 2 753 266 600 470 97 142 005 552 6556 6552 6556 65574 094	D Poun 	up ds 30	lin Value \$3 	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 201, 208 208,	11, 11 aurritu nds 450 700 3 200 800 000 500 526 200 100 550 500 550 500 500 500 600 400	ck Value \$42 9, 389 151 10 7, 760 204 19 289 31 35 760 320 166 320 166 138 880 3, 869 3, 840 3, 869 13	Pou 4, 8, 40, 43, 40, 43, 4, 2, 15, 13, 105, 36, 51, 6, 6, 10, 221, 2, 10, 1, 19, 52, 9, 6, 387, 119, 107,	Da mds ,000 ,000 ,000 ,425 ,400 ,000 ,425 ,400 ,000 ,005 ,182 ,682 ,682 ,832 ,832 ,832 ,832 ,832 ,832 ,832 ,8	re Va \$ 4, 2, 3, 1, 2, 4, 4, 1, 12, 11, 12, 13, (lue 2215 160 37 8300 872 112 246 5519 22 4690 2388 5519 2 2 753 2666 6000 4700 97 4400 97 4400 97 4400 97 2400 97 2552 6554 6552 6554 6552 6554 6552 6554 6552 6554 6552 6554 6552 6554 65554 65554 655556 655574 655574 655557 655575 65557 65575757 6555757 655575757 6555757577 6	D Poun 2 	up ds 30	lin Value \$3 	Hertt Pounds 15,000 15,000	ford Value \$188 225
Total	261, 808 Pou 268, 2, 2, 268, 2, 2, 15, 154, 65, 10, 1, 1, 1, 38, 3, - 2, - 3, 2, 3, 2, 3, 3, 3, 3,	11, 11 aurritu. nds 1 450 700 3 200 3 200 3 500 300 550 500 500	ck Value \$42 9,389 176 19 151 10 7,760 1,400 204 	Pou 4, 8, 40, 43, 44, 2, 15, 13, 105, 36, 51, 6, 6, 6, 10, 221, 2, 10, 1, 19, 52, 9, 6, 387, 119, 119, 105, 387, 45,	Da mds 000 425 400 0075 182 682 832 832 832 832 832 000 402 402 402 832 900 402 402 832 900 402 402 832 900 413 800 900 413 832 900 413 832 900 415 832 900 415 832 900 415 832 900 415 832 900 415 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 402 832 900 400 832 900 402 832 900 402 832 900 400 832 900 832 900 832 900 832 900 832 900 832 900 900 402 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 832 900 900 832 900 832 900 900 832 900 900 832 900 900 900 900 900 900 900 900 900 90	re Va \$ 4, 2, 3, 1, 2, 4, 4, 1, 12, 11, 5, 6	due 2215 160 37 8300 872 2 2 46 490 238 5 519 2 2 753 6600 470 977 400 977 400 977 400 977 552 6556 600 977 838 972 830 975 830 977 838 977 838 977 838 977 838 977 838 977 838 977 977 838 977 977 838 977 977 838 977 838 977 838 977 838 977 838 838 838 838 838 838 838 8	D Poun 2 	up ds 30	lin Value \$3 	Hert	ford Value \$188 225
TotalSpecies	261, 808 Pou 2, 268, 2, 268, 2, 15, 154, 65, 10, 1, 1, 1, 38, 2, 1, 44, 10, 8, 24, 10, 8, 24, 10, 189, 189, 189,	11, 11 aurritu nds 450 700 3200 800 000 500 0037 526 200 200 550 500 000 550 000 550 000 550 000 500 000 500 000 550 500 000 550 500 000 300 400	ck Value \$42 9,389 176 19 151 100 7,760 1,400 1,	Pou 4, 8, 40, 43, 43, 44, 15, 13, 105, 36, 51, 6, 10, 221, 22, 10, 19, 52, 9, 6, 387, 119, 107, 45, 24,	Da mds 000 613 750 750 750 750 750 750 750 750 750 750	re Va \$ 4, 2, 3, 1, 2, 4, 4, 1, 12, 11, 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 7 13, 7 13, 7 13, 7 13, 7 13, 7 14,	lue 2215 160 37 830 872 22 466 519 22 753 136 600 497 400 142 206 5519 22 519 238 519 22 238 519 22 238 519 22 236 236 237 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 237 238 238 237 238 238 238 237 238 238 238 238 238 238 238 238	D Poun 2 	up ds 30	lin Value \$3 	Hertt Pounds 15,000 15,000	ford Value \$188 225 <tr tr=""> </tr>
Species	261, 808 Pou 2,	11, 11 aurritu nds 450 700 3200 800 000 500 526 200 100 556 200 100 550 500 000 550 500 500 000 550 500 </td <td>ck Value \$42 9,389 176 19 151 10 7,760 1,400 204 </td> <td>Pou 4, 8, 40, 43, 43, 44, 15, 13, 105, 36, 51, 6, 10, 221, 22, 10, 19, 52, 9, 6, 387, 119, 107, 45, 24,</td> <td>Da mds 000 613 750 750 750 100 100 075 182 642 64 829 832 574 000 620 035 200 900 476 860 917 200 000 000 000 005 575 000 005 575 000 005 500 000 005 500 000 005 500 000 000 005 500 000 000 000 000 005 500 0000 0000 00000 0000 0000 0000 0000 0000 0</td> <td>re Va \$ 4, 2, 3, 1, 2, 4, 4, 1, 12, 11, 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 7 13, 7 13, 7 13, 7 13, 7 13, 7 14, 7 14,</td> <td>lue 215 160 37 8300 238 519 246 4900 238 5519 2666 600 4700 97 4400 97 400 4700 97 4005 381 5526 5546 5546 4700 97 4005 381 4005</td> <td>D Poun 2 </td> <td>up ds 30</td> <td>lin Value \$3 </td> <td>Hert</td> <td>ford Value \$188 225</td>	ck Value \$42 9,389 176 19 151 10 7,760 1,400 204 	Pou 4, 8, 40, 43, 43, 44, 15, 13, 105, 36, 51, 6, 10, 221, 22, 10, 19, 52, 9, 6, 387, 119, 107, 45, 24,	Da mds 000 613 750 750 750 100 100 075 182 642 64 829 832 574 000 620 035 200 900 476 860 917 200 000 000 000 005 575 000 005 575 000 005 500 000 005 500 000 005 500 000 000 005 500 000 000 000 000 005 500 0000 0000 00000 0000 0000 0000 0000 0000 0	re Va \$ 4, 2, 3, 1, 2, 4, 4, 1, 12, 11, 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 6 5, 13, 7 13, 7 13, 7 13, 7 13, 7 13, 7 14,	lue 215 160 37 8300 238 519 246 4900 238 5519 2666 600 4700 97 4400 97 400 4700 97 4005 381 5526 5546 5546 4700 97 4005 381 4005	D Poun 2 	up ds 30	lin Value \$3 	Hert	ford Value \$188 225

¹ Crevalle, hogfish, pinfish, and tautog.

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species—Continued

Species	Hy	Hyde		tin	New H	anover	Onslow	
Alewives, salted	1 ounuo	Value	Pounds 310,000	Value \$5, 425	Pounds	Value	Pounds	Value
Angel fish Bluefish Croaker	620 2, 800	\$37 43			13, 400	\$10 1, 425 670	6, 300	\$504
Drum, black Drum, red, or redfish Flounders Harvest fish or "starfish"	5,000	$100 \\ 2 \\ 25$				75 170 15		
Hickory shad King whiting Mullet, fresh	225	10 500 11		59	5, 500 254, 700 10, 450	290 21, 770 778	45, 650 20, 200	2, 282 1, 544
PompanoShadSheepsheadShe		10	2, 192		200	. 25	10205023	
Spot, fresh Squeteague, gray	10,700 63,500	160 1,715			50, 000	3, 750	14, 452	1,011
Squeteague, speckled	5, 250	525	5, 300	795	6, 300	1, 260	5, 267 2, 400	532 415
White perch Other fish ¹ Shrimp			12,600	810	500 575 48, 000	25 29 1, 440		
Total	94, 820	3, 138	331, 542	7, 481	399, 525	31, 732	94, 269	6, 288

BY HAUL SEINES-Continued

Species	Pam	lico	Per	der	Washi	ngton	Tot	al
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives, fresh							102, 815	\$1, 20
Alewives, salted							1, 533, 000	29, 81
Angel fish			400	\$20			1, 753	9
Black bass							310, 950	44, 29
Bluefish	300	\$36	2,500	250			247,090	17,49
Bluefish Bonito							6,800	16
Bowfin							15, 100	15
Butterfish							23, 275	84
Carp, German							171,062	8. 27
Carp, German Catfish	400	10					128,769	2, 36
Cod	100	10					120, 103	2, 50
Croaker		1		400			644,072	10 49
Davage black	11,000	1, 545	8,000	400				16, 43
Drum, black							564	7
Drum, red, or redfish	- 8, 300	189	8,000	460			109, 014	4, 76
Eels							8,475	34
Flounders Garfish Harvest fish or ''starfish''	2,400	210	1,500	240			81,044	4,01
Garfish							2,150	2
Harvest fish or "starfish"		1100100					20, 235	78
Hickory shad				1.1.1	1		47,629	2,40
King whiting			3 000				352, 137	9, 80
Mullet, fresh			18,000	1 670			582, 474	46, 89
Mullot coltod			40,000				271,000	27, 40
Mullet, salted								
Pigfish	200	12	800	80			224, 965	5, 39
Pike							4,850	46
Pompano		81	250	25			32, 390	2, 11
Shad						1, 270	76, 558	18,85
Sheepshead			500	75			33, 020	1,85
Spanish mackerel	300	45					46, 785	4,60
Spot, fresh	10,000	345	72, 500	4.125			1,040,316	31, 64
Spot, salted	,		,	-,			66,000	4, 800
Squeteague, gray	26,936	845	4.000	160			409, 339	21, 17
Squeteague, speckled	13, 965	2.082	9,000				417, 197	53, 28
Striped bass		1,900	500	1, 275	80.000	12,000	189, 147	28, 36
Suckers		1,900			80,000	12,000	1. 300	20, 300
Sunfish							31,065	320
White perch					50,000	3,000	290, 600	18, 10
Yellow perch							108, 487	5, 345
Other fish ¹							750	38
Crabs, soft							96, 543	14, 881
Shrimp							163, 673	5, 870
Total	149, 976	7,300	158, 950	12,000	1, 335, 000	40, 270	7, 892, 575	434, 774

¹ Crevalle, hogfish, pinfish, and tautog.

69239-26†-11

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

Species	Beau	afort	Bla	den	Brun	swick	Cam	ıden
and an experience of the second second	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives, fresh	1,975	\$22					and an all	Second L.
Angel fish	100	8						
Black bass	2, 250	270						
	400	40						
Bluefish				******	1 200	A100	*******	
Catfish	1,580	81			1,300	\$130		
Croaker	19,200	1,000	·······	Incore.	1,560	151		
Drum, black					1,140	114		Lange and
Drum, red, or redfish	1,700	63			13, 825	1, 323	Lucibul S	
Flounders	765	56			5, 500	550		
Hickory shad	9,620	678			110	22		
King whiting	49.000	610		*******	1,050	105		
	10 000	1 000						
Mullet, fresh	13,000	1,200	******	******	23, 500	2,100		
Mullet, salted				*******	69,050	7,115		
Pigfish					70	7		
Pike	1,750	140					La character	
Pinfish or sailor's choice	2,700	- 54			973	97		C. Salah
Shad	7,968	1,575	6.000	\$1,600	1,750		9,500	\$2.400
Sheepshead	100	16					9,000	
	100	15			1,000	108		
Spanish mackerel		0.00				*******		
Spot, fresh	13,000	650				695		
Spot, salted					12,500	950		
Squeteague, gray	3, 365	317			7,700	1,430		
Squeteague, speckled	19, 515	3, 023						
Striped bass	2,510	411			3,800	760		
	100	10				100		
	100	10	******					
White perch	10 01-				********		234	19
Yellow perch	13, 815	699					866	69
Total	118, 513	10, 328	6,000	1,600	157, 680	16,092	10,600	2, 488

BY GILL NETS

Species	Cart	eret	Cho	wan	Craven		Cumb	erland
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Alewives, fresh Black bass		\$625	6, 910	\$190	100	\$12		******
Bluefish		15,380						
Bonito		2,400						harres
Butterfish		30			********			
Parp, German			550	17	********			
>atfish			4,300	172				
)ero		60			********			
roaker	113, 370	2,479			********			
Drum, red, or redfish	715	49						
lounders	1,540	103		****	5,000	460		
larvest fish or "starfish"		117			********			
liekory shad		2,080			100	6		
Cing whiting		8, 520						
dullet, fresh		18,340						
dullet, salted		760						
'igfish	100-100 mm of 100	430						
had		11, 929			205, 637			\$2, 200
heepshead		1, 025	*****					
panlsh mackerel		5,462		*******				
pot, fresh		5,790					*******	******
queteague, gray	134, 755	8, 849						
queteague, speckled		4,035	19.000	0.021	0 001	1 0/2	*******	******
triped bass		4,747.	13,300	2, 261	6, 225	1,246	*******	
unfish	0.00	*******	0.070		2,500	150		
White perch		54	3, 050	305	15,100	1, 510	*******	
'ellow perch	********	*******		*******	1,750	105	******	*****
Total	1, 302, 699	93, 264	166, 712	31, 855	262, 712	60, 629	9, 500	2, 200
	the second		1					

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

BY GILL NETS-Continued

A allow I sharothe I built ?		1	Curri	ituck	hute	Da	re	D	uplin	L-	Ga	tes
Alewives, fresh Alewives, salted	000.11	1	Pounds 1,000	\$35	-	unds 4, 300	Value \$21	2 7	0	\$3	Pounds 8,000	\$100
Bluefish					20	67, 989	12, 91	0			8,000	120
Catfish											1, 375	54
Croaker Drum, red, or redfish						9, 418 24, 674	42	0			10.0	10111122
Hickory shad					1	6,070	42	6 14	5 2	27		
King whiting Mullet, fresh						371 47, 716	3, 88					
Shad			4,025	1,350		53, 673	116, 61	6 2,04	5 57	75	9, 563	1, 987
Sheepshead						75 200	1	7			20111	
Spot, fresh					22	6, 168	28					
Squeteague, gray						1, 145	25, 55	7				
Squeteague, speckled Striped bass	1.999.103	12423	400	120	, 83 J	93, 732 17, 802	2, 57	8			WITE V	
Sturgeon						10, 500	1,750	0			100103	1200.20
Sturgeon caviar			7, 500	1, 125		145	193	3			1 005	
			the second second			0.0					1, 225	123
Total	1.00 01	1	12, 925	2, 630	1,46	3, 978	179, 942	2 2, 26	0 60	5 2	28, 163	2, 385
Species	Herti	ford		Hyde		Joi	nes	Mar	tin	N	ew H	anover
OU LINE ST	Pounds		e Pour			Pounds		Pounds	Value	Po	unds	Value
Alewives, fresh Alewives, salted		\$58	2,0	00	\$50	2,000		30,000	\$525			
Bluefish		- nen	21, 8	75 1.3	312			30,000	\$020	1	, 250	\$240
Catfish	400	16										
Croaker Drum, red, or redfish			4,2								, 990	87
Flounders										2	2, 300	115
Hickory shad				75							,825	366
King whiting Mullet, fresh			. 10							127	, 200	60 10, 670
Mullet, salted			_ 22, 13)30 -							
Pigfish Shad											,800	135 18, 586
Spanish mackerel			- 50	00	50 -					4	,400	700
Spot, fresh			9,10								, 500	4,075
Squeteague, gray Squeteague, speckled			11, 60								,000	
Striped bass		103070	4, 50									
Sturgeon White perch	400	40		- N. M. C.							, 800	800
Total	5, 400	114	133, 68	33 15, 1		2,000	40	20,000	525	283	, 380	36, 167
				10 10, 1	.55	2,000		30,000				
Canadian	075-0		Oral	1	.55				otonla		Dame	
Species	003 1. 1718 1.6.2		Onsl	ow		Pamli	co	Pasqu			Pend	ler
AND THE PARTY NO.	073 0 078 (62) 045 04		ounds	ow Value	Por	Pamli unds	co Value	Pasqu Pounds	Valu		ounds	ler Value
Alewives, fresh Alewives, salted		13	ounds 0, 522	ow	Por	Pamli	co Value \$73	Pasqu Pounds 10, 200 10, 000	Valu \$61: 5	2	ounds 125	ler Value \$3
Alewives, fresh Alewives, salfed Angel fish		13	ounds 0, 522	ow Value \$2, 292	Por 1	Pamli unds , 450	co Value \$73 54	Pasqu Pounds 10, 200 10, 000	Valu \$61 5	2	ounds 125	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass		13	ounds 0, 522	ow Value \$2, 292	Por 1	Pamli unds , 450 	co Value \$73 54 760	Pasqu Pounds 10, 200 10, 000	Valu \$61 5	2	ounds 125	ler Value \$3
Alewives, fresh Alewives, salfed Angel fish Black bass Bluefish Catfish		13	ounds 0, 522 8, 553	ow Value \$2, 292 685		Pamli unds , 450 445 , 075 , 130 , 425	co Value \$73 54 760 113 140	Pasqu Pounds 10, 200 10, 000	Valu \$61: 5	2	ounds 125	ler Value \$3
Alewives, fresh Alewives, salfed Angel fish Black bass Bluefish Catfish		13	ounds 0, 522	ow Value \$2, 292		Pamli unds , 450 445 , 075 , 130 , 425 , 085	co Value \$73 54 760 113 140 2,313	Pasqu Pounds 10, 200 10, 000	Valu \$61: 5	2	ounds 125	ler Value \$3
Alewives, fresh Alewives, salfed Angel fish Black bass Bluefish Catfish Croaker Drum, red, or redfish		13 1	ounds 0, 522 8, 553	ow Value \$2, 292 685		Pamli unds , 450 445 , 075 , 130 , 425	co Value \$73 54 760 113 140	Pasqu Pounds 10, 200 10, 000	Valu \$61: 5	2	ounds 125	ler Value \$3
Alewives, fresh Angel fish Black bass Bluefish Catfish Croaker Drum, red, or redfish Flounders Gizard shad		13 1 1	ounds 0, 522 8, 553 6, 220	ow Value \$2, 292 685	Pon 1 6 1 4 45	Pamli unds , 450 445 ,075 ,130 ,425 ,085 310 960	co Value \$73 54 760 113 140 2,313 12 59	Pasqu Pounds 10, 200 10, 000 4, 536	Valu. \$611 50	20	ounds 125	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass Catfish Croaker Drum, red, or redfish Flounders Gizard shad Hickory shad		13 	ounds 0, 522 8, 553 6, 220	ow Value \$2, 292 685 1, 223	Pon 1 6 1 4 45	Pamli unds , 450 	co Value \$73 54 760 113 140 2, 313 12	Pasqu Pounds 10, 200 10, 000	Valu \$61: 50	20	ounds 125	ler Value \$3
Alewives, fresh Angel fish Black bass Bluefish Catfish Croaker Drum, red, or redfish Flounders Gizard shad Hickory shad King whiting		13 	ounds 0, 522 8, 553 6, 220 5, 550 0, 790	ow Value \$2, 292 685	Por 1 6 1 4 45 5, 36,	Pamli unds , 450 445 , 075 , 130 , 425 , 085 310 960 , 575 , 700	co Value \$73 54 760 113 140 2,313 12 59 401 3,670	Pasqu Pounds 10, 200 10, 000 4, 536	Valu. \$611 50	2 0 	ounds 125	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass. Catfish Croaker. Drum, red, or redfish Flounders Gizard shad Hickory shad King whiting Pike		13 11 11 11 230	ounds 0, 522 8, 553 6, 220 5, 550 0, 790	ow Value \$2, 292 685 1, 223 927	Pon 1 6 1 4 45 	Pamli unds , 450 - 445 , 075 , 130 , 425 , 085 310 960 , 575 , 700 , 925	co Value \$73 54 760 113 140 2, 313 12 59 401 3, 670 314	Pasqu Pounds 10, 200 10, 000 4, 536	Valu. \$611 50	2 0 	ounds 125	ler Value \$3
Alewives, fresh Angel fish Black bass Black bass Catfish Croaker Drum, red, or redfish Flounders Gizard shad Hickory shad Hickory shad King whiting Mullet, fresh Pike Pinfish or sailor's choice Shad			ounds 0, 522 8, 553 6, 220 5, 550 0, 790	ow Value \$2, 292 685 1, 223 927	Por 1 6 1 4 4 5 	Pamli unds ,450 -445 ,075 ,130 ,425 ,085 ,310 960 960 ,575 ,575 ,575 ,575 ,575	Image: color Value \$73 \$74 \$760 \$113 \$140 \$2,313 \$29 \$401 \$3,670 \$314 \$187 \$1,040	Pasqu Pounds 10, 200 10, 000 4, 536	Valu. \$611 50	2 0 	ounds 125	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass Bluefish Catfish Croaker Drum, red, or redfish Flounders Gizard shad Hickory shad Hickory shad King whiting Mullet, fresh Pike Pinfish or sailor's choice Shad		13 	bunds 0, 522 8, 553 6, 220 5, 550 0, 790	ow Value \$2, 292 685 1, 223 927	Por 1 6 1 4 4 5 	Pamli unds , 450 445 , 075 , 130 960 , 575 , 700 , 925 , 575 , 300 , 275	co Value \$73 54 760 113 140 2,313 12 59 401 3,670 3,670 314 187 1,040 44	Pounds 10,200 10,000 	Valu. \$61: 5: 9: 344	2 0 	ounds 125 150 3,000	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass Black bass Catfish Croaker Drum, red, or redfish Flounders Gizard shad Flounders Gizard shad Flounders Gizard shad Flounders Mullet, fresh Pinfish or sailor's choice Shad Shad Spanish mackerel Spot, fresh			ounds 0, 522 8, 553 6, 220 5, 550 0, 790	ow Value \$2, 292 685 1, 223 927	Por 1 6 1 4 4 5 	Pamli unds ,450 -445 ,075 ,130 ,425 ,085 ,310 960 960 ,575 ,575 ,575 ,575 ,575	co Value \$73 54 760 113 140 2, 313 59 401 3, 670 314 187 1,040 44 54	Pasqu Pounds 10, 200 10, 000 4, 536 4, 915 40, 238	Valu. \$61: 5: 9: 344		ounds 125 150 3,000 3,150	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass Catfish Croaker Drum, red, or redfish Flounders Jizard shad Hickory shad Hickory shad Hickory shad Mullet, fresh Pinfish or sailor's choice Shad Shad Shad Spanish mackerel			bunds 0, 522 8, 553 6, 220 5, 550 0, 790 9, 650 5, 018	ow Value \$2, 292 685 1, 223 927 17, 691 1, 477 6, 384	Pov 1 	Pamli unds , 450 445 ,075 ,130 ,425 ,085 310 960 ,575 ,575 ,300 275 350 865 275 350 865 249	$\begin{array}{c c} co \\ \hline Value \\ \$73 \\ \hline 54 \\ 760 \\ 113 \\ 140 \\ 2, 313 \\ 12 \\ 59 \\ \hline 401 \\ \hline 3, 670 \\ 314 \\ 187 \\ 1, 040 \\ 44 \\ 54 \\ 1, 543 \\ 627 \\ \hline 54 \\ 1, 543 \\ 627 \\ \hline \end{array}$	Pasqu Pounds 10, 200 10, 000 4, 536 4, 915 40, 238	Valu \$61 5 99 344		ounds 125 150 3,000	ler Value \$3
Alewives, fresh Angel fish Black bass. Bluefish Catfish Croaker Drum, red, or redfish Flounders Gizard shad Hickory shad King whiting Mullet, fresh Pike Pinfish or sailor's choice. Shad Speepshead Spanish mackerel Spot, fresh Gueteague, gray Gueteague, gray Sueteague, speckled			ounds 0, 522 8, 553 6, 220 5, 550 0, 790 9, 650 5, 018 0, 109	ow Value \$2,292 	Pool Pool 1. 6. 1. 4. 4. 4. 4. 5. 	Pamli unds , 450 , 450 , 450 , 075 , 130 , 425 , 130 , 960 , 575 , 300 , 925 , 575 , 350 , 865 , 249 , 125 , 1	co Value \$73 54 760 113 140 2,313 12 59 401 3,670 3187 187 1,040 44 54 57 1,543 627 1,335	Pasqu Pounds 10, 200 10, 000 	Valu. \$61: 50 9: 344 11, 863		ounds 125 150 3,000 3,150	ler Value \$3
Alewives, fresh		13 13 14 14 14 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	bunds 0, 522 8, 553 6, 220 5, 550 0, 790 9, 650 5, 018	ow Value \$2, 292 685 1, 223 927 17, 691 1, 477 6, 384	Pot 1 6 1 4 4 4 5 5 	Pamli unds ,450 445 ,075 ,130 ,425 ,310 960 ,575 ,575 ,300 ,275 ,350 ,865 ,865 ,865 ,360 ,249 ,125 ,340 ,050	$\begin{array}{c c} co \\ \hline Value \\ \$73 \\ \hline 54 \\ 754 \\ 754 \\ 754 \\ 754 \\ 140 \\ 2, 313 \\ 12 \\ 59 \\ \hline 401 \\ 3, 670 \\ 314 \\ 187 \\ 1, 041 \\ 187 \\ 1, 041 \\ 187 \\ 1, 041 \\ 187 \\ 1, 05 \\ \hline 1, 05 \\ 105 \\ \hline \end{array}$	Pasqu Pounds 10, 200 10, 000 4, 536 4, 915 40, 238 6, 028 1, 500	Valu. \$61: 50 99: 34: 11, 86: 90: 13:		ounds 125 150 3,000 3,150	ler Value \$3
Alewives, fresh Alewives, salted Angel fish Black bass Catfish Croaker Drum, red, or redfish Flounders Gizard shad Flounders Gizard shad Flounders Gizard shad Flounders Gizard shad Flounders Gueteshead Spot, fresh Squeteague, gray Squeteague, speckled Striped bass		13 13 14 14 14 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	ounds 0, 522 8, 553 6, 220 5, 550 0, 790 9, 650 5, 018 0, 109	ow Value \$2,292 	Pot 1 6 1 4 4 4 5 5 	Pamli unds ,450 445 ,075 ,130 ,960 960 955 ,575 ,700 ,925 ,575 ,300 275 ,300 275 ,300 275 ,350 249 ,125 ,340	$\begin{array}{c c} \hline co \\ \hline Value \\ \$73 \\ \hline 54 \\ 760 \\ 113 \\ 140 \\ 2, 313 \\ 12 \\ 59 \\ \hline 401 \\ \hline 3, 670 \\ 314 \\ 187 \\ 1, 040 \\ 1, 543 \\ 627 \\ 1, 335 \\ -1, 1, 104 \\ \end{array}$	Pasqu Pounds 10, 200 10, 000 10, 000 4, 536 4, 915 40, 238 40, 238 6, 028	Valu. \$61: 50 99: 344 11, 86:		ounds 125 150 3,000 3,150	ler Value \$3

ACCL. RATA U. S. BUREAU OF FISHERIES AT THE ACCURATE

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

Species	Perqu	imans	Туг	rell	Wash	ington	Total		
Alewives, fresh Alewives, salted		\$269	Pounds 2,000 11,500	\$25 171	14.000	Value \$240	Pounds 196, 627 73, 500	Value \$4,609 1,100	
Angel fish Black bass Bluefish	400	66					545 8,825 483,287	62 1, 108 30, 680	
Bonito Butterfish			1 175				375	2, 400 30 84	
Carp, German Catfish Cero			5, 095	204	1, 500	50	22, 419 500	921	
Croaker Drum, black								7, 747 114 3, 070	
Drum, red, or redfish Flounders Gizzard shad Harvest fish or "starfish"	377	25					16, 442	3, 0/1 1, 368 165	
King whiting	17, 791	1,834	1011 110		16, 500		165, 198	14, 297	
Mullet, fresh Mullet, salted	50						98,000	62, 472 11, 905	
Pigfish Pike Pinfish or sailor's choice	60	4					5,735	618 458 338	
Shad Sheepshead Spanish mackerel	64, 141	13, 079	53, 250	11, 959	42, 275	8,962	1, 182, 898 14, 315 55, 120	293, 320 1, 250 6, 297	
Spot, fresh Spot, salted Squeteague, gray	13 4 1 Ab 4 3			arhaase			352, 308 12, 500 775, 697	15, 108 950 44, 240	
Squetengue, speckled Striped bass Sturgeon	18, 364 90	2, 921	39,000	7,020	11, 150	2,065	202,006 158,124 15,390	29, 728 27, 865 2, 573	
Sturgeon caviar Sunfish White perch	$ \begin{array}{r} 75 \\ 2,229 \end{array} $	9 201	2,020	242	750	79	2,675 35,358	193 169 3, 938	
Yellow perch Other fish	95	8 2	950		50		95	2, 755 2	
Total	119, 282	18,608	152, 690	23, 511	86, 725	12, 841	5, 221, 200	581, 849	

BY GILL NETS-Continued

BY POUND NETS

Species	Beau	lfort	Ber	tie	Cart	teret	Chow	van
Alewives, fresh Alewives, salted		Value \$1, 404	Pounds 22, 832 111, 550	Value \$330 2, 123	Pounds 7,350	\$220		Value \$9, 802 46, 880
Black bass	- 850	110	180	45				
Bluefish Bonito		45			1,555 6,270	125 125		
Butterfish	1 400	35				6,756		
Carp, German		00			120, 510	0,100	4, 381	280
Catfish		62	975	37			11, 415	
Croaker	_ 26, 590	826			55, 285	918		
Drum, red, or redfish	1,150	13			1,100	15		
Eels Flounders			50				6, 585	
Flounders	- 1,928	129	50	3	14, 245			
Harvestfish or "starfish" Hickory shad	35, 375	2, 586	1,200		157, 995 19, 400		39, 285	2 590
King whiting	- 30, 310	2,000	1, 200	30	335	10	39, 200	
Pigfish	850	17	020	120000		10		
Pike	5		100	20				
Pinfish or sailor's choice	1,200	30					200	
Pompano					915	56		1.1.1.1.2
PompanoShad	51, 107	9,900	7, 555	1,869		12, 390	85, 916	
Sheepshead Spanish mackerel					150	15		
Spanish mackerel	620	74				3, 911		
Spot	27,725	857 5,635				512		
Squeteague, gray Squeteague, speckled	7, 511	1, 147			363, 360	12, 492		
Striped bass	20, 195	2, 272	3, 425	684	11,030	1.755	32, 350	4, 981
Sunfish	1. 350	68	0, 120	001	11,000	1,100	02,000	1,001
White perch	1,615	132	1,095	110			26, 610	2,667
Yellow perch	1,990	104	100	8			5, 122	398
Other fish	- 375	26	200	2	1, 204	81		
Turtles					300	7		
Total	490, 430	25, 472	149, 312	5, 335	880, 975	45,655	3, 625, 864	89, 614

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

Species	Curr	ituck	Da	Dare		Gates		ford
Alewives, fresh Alewives, salted Black bass		Value \$450 300	Pounds 267, 928 12, 400 395	Value \$11,050 94 54	Pounds 6,000 18,000 100	Value \$74 270 18	Pounds 9,000 27,000 150	Value \$113 405 26
Bluefish Butterfish Carp, German		No. Barris	15, 467 50, 964 649	773 3, 313 29				
Catfish Cod	1,750	93	23, 076 158	711 5	675		1, 050	53
Croaker Drum, red, or redfish Eels		1.000	89	2, 936 747 4	100	10	150	15
Flounders Harvestfish or "starfish" Hickory shad		1017.2000	111, 159 148, 726 21, 349	7, 311 10, 268 1, 494				
King whiting Mullet Pike			8,701	436 48			75	
PompanoShadSheepshead	7,800		2, 592 648, 398	343 170, 975 9	300		950	200
Spanish mackerel			100 18, 148 92, 701	1, 452 3, 708			ht	
Squeteague, gray Squeteague, speckled Striped bass	3, 850	925	441, 807 6, 736 16, 812	22, 110 947 2, 552	100		300	
Striped bas. Sturgeon Sturgeon caviar Sunfish			3, 464 160 85	556 400 7				
Trippletail White perch Yellow perch	2, 500	300 96	181 7, 233 1, 250	9 671 100	1,400	140	2, 250 150	225
Other fish			1, 230 1, 042 3, 786	100 31 76				
Total	42, 300	4, 969	1, 983, 546	243, 219	26, 775	637	41,075	1, 109

BY POUND NETS-Continued

	Species		Hy	de	Pan	lico	Perqui	mans
LedoT .	Restores	Cares		150.0	_ ann	meo	rorqui	mano
Alewives, fresh. Alewives, salted	Pounda Volute		Pounds 46, 400	Value \$1,029	Pounds 38, 260	Value \$1, 841	Pounds 75,000 25,000	Value \$450 175
Black bass		-984688	6,500	163	480	25	25	4
Butterfish Carp, German Catfish			43, 240	1,150	23, 160	721	25 400	1 12
Croaker Drum, red, or r			$32,400 \\ 8,500$	550 170	5, 515	111		
			12,900	478	740	59	1,000	100
Harvestnsh or " Hickory shad King whiting			31,450	3, 865 2, 790 505	16,835	1,070	300	36
Pigfish Pike			1, 250	19	010010801			4
Pompano Shad Sheepshead			7,350 161,075 2,100	$535 \\ 33,270 \\ 90$	50,712	11, 503	4,500	624
Spanish macker Spot	el		12,950 6,285	1,295 115	$6,250 \\ 650$	$710\\32$		
Squeteague, gra Squeteague, spe	ckled		9,050	12,541 1,735	$220,550 \\ 65,210$	6, 705 8, 805		
Striped bass White perch Yellow perch Other fish			16,750	2,528 18 120	2,020 575 635	$\begin{array}{c} 311\\58\\40\end{array}$	150 250 250 50	27 25 20 8
Total			1,047,220	62, 966	433, 367	32,025	106, 975	1,486
					1 1002		1 100/77	bittle Proof-

504, 1.0 54 405 209 54 405

850 8 055 808 008

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

BY POUND NETS-Continued

Species	Tyrrell		Washin	ngton	Total		
Provide a state and the state	Pounds	Value	Pounds	Value	Pounds	Value	
Alewives, fresh			7,900	\$99	1,233,805	\$26, 862	
Alewives, salted	240,000	\$3,600	90,000	1,275	3, 326, 550	55,12	
Black bass	1,550	279	600	108	3,850	644	
Bluefish					24, 817	1, 131	
Bonito					6,270	12	
Butterfish					239, 740	11, 97	
Carp, German	250		375	10	8,180	47	
Catfish	13, 500	540	7,250	242	65, 566	2, 270	
Cod					158	1.51.51	
Croaker					184,768	5, 341	
Drum, red, or redfish	The state of the state of the	- 1	and the second second		23, 185	941	
Eels	2,000	200	675	71	10,649	1,127	
Flounders					141,022	8, 560	
Harvest fish or "starfish" Hickory shad. King whiting					450, 556	18, 918	
Hickory shad	3,100	310	400	32	168,694	12,900	
King whiting	1 1 1 1 1 1 1			A TRAD	27, 586	951	
Mullet					577	45	
Pigfish					2,100	36	
Pike	1 000	230	350	88	1, 575	365	
Pinfish or sailor's choice	1,000	200	000	00	1,200	30	
Pompano.					10,857	934	
Shad	6 600	1 495	96 451	5 640	1, 110, 678	270, 421	
			20, 101	0,040	2, 350	114	
Sheepshead					77,086	7.443	
Spanish mackerel					148, 434	5, 224	
Spot							
Squeteague, gray					1,693,301	59,483	
Squeteague, speckled Striped bass					88, 507	12,634	
Striped bass	2,000	360	1,625	293	110,607	16, 748	
Sturgeon	*********				3,464	556	
Sturgeon caviar					160	400	
Sunfish	*********				1,435	400	
Trippleptail					181		
White perch	28,150		15,000			9,374	
Yellow perch	2, 200	220	740	63	17,412	1,187	
Other fish					2,871	148	
Turtles					4,086	8	
Total		10,609	151,366	9,571	9, 279, 555	532, 667	

BY FYKE NETS

Species	Cam	den	Curri	tuck	Ga	tes	Pasqu	otank	Tot	tal
Alewives, fresh Black bass Bowfin Carp, German Cathsh Flounders	Pounds 500 250 800 3,000 500	Value \$10 40 16 180 20	Pounds 1, 600 2, 050 1, 950 22, 500 3, 750	Value \$35 344 39 1, 350 150	Pounds 1, 600 2, 000 10, 800	\$288 160 324	Pounds 3, 636 976 1, 554 23, 214 630	Value \$509 19 70 813 43	Pounds 2, 100 7, 536 5, 726 27, 054 38, 264 630	\$45 1, 181 234 1, 600 1, 307 40
Mullet Pike Striped bass Suckers	500	100	3, 100	620		·····	601 1, 750 69	48 131 3	$ \begin{array}{r} 601 \\ 1,750 \\ 3,600 \\ 69 \end{array} $	48 131 720 3
Sunfish White perch. Yellow perch.	1,000 500 9,000	20 38 675	5, 200 4, 000 76, 000	104 293 5, 575	12, 600 3, 600	1, 260 288	1,008 7,606 2,277	$ \begin{array}{r} 121 \\ 685 \\ 182 \end{array} $	7, 208 24, 706 90, 877	245 2, 276 6, 720
Total	16,050	1,099	120. 150	8, 510	30, 600	2, 320	43, 321	2, 624	210, 121	14, 553

BY LINES

Species	Cart	eret	Da	re	Hy	de	New Ha	anover	Tota	al
Angel fish	Pounds 100	Value \$5	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value \$5
Bluefish Drum, red, or redfish	500	60					12,000	\$600	500 12,000	60 600
Flounders Grunt Pigfish	200 300	10 9							200 300	10
Pinfish or sallor's choice Red snapper	200 400 500	0 14 35			*******	******		******	200 400 500	0 14 35
Sea bass Squeteague, gray	35,000	2,800 100			1,000	\$50		*****	35,000 2,000	2,800 150
Squeteague, speckled Crabs, hard	500	75	304, 750	\$4, 895					500 304, 750	75
Crabs, soft Total	38, 700	3, 114	300	19 4, 914	1,000		12,000	600	300 356, 750	19

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

BY OTTER TRAWLS

Fold	Species	opitition	Brunsv	vick	Cart	eret	Tota	1
Croaker Flounders King whiting Spot Squeteague, gra Shrimp			Pounds 2, 365 14, 500 7, 800 3, 165 900 1, 307, 160	Value \$70 475 245 106 27 39, 211	Pounds 500 133, 784	Value \$40 4,076	Pounds 2, 365 15, 000 7, 800 3, 165 900 1, 440, 944	Value \$7 51 24 10 2 43, 28
Total	23, 869 1, 700	1010 1010	1, 335, 890	40, 134	134, 284	4, 116	1, 470, 174	44, 25
120, 228 44, 435 1, 832 200	7,200 1,600	BY EEL	POTS AN	D SPEA	ARS	281 3	Trina .pu Mot .m	ind 19 19
100 / 100 01 - 101 / 2 200 011	proven and a series			E	elpots		Spears	19.

Counties	Eel	5 000 (8)	Flou	nders
Beaufort	Pounds 13,000	Value \$2, 600	Pounds	Value
Camden Carteret Currituck	1,000 15,535 95,192	100 2, 325 7, 980	35, 000	\$1, 750
Dare Hyde New Hanover	23, 000 250	990 13	2, 000 23, 000	100 3, 450
Pamlico Pasquotank Pender	10, 325 2, 100	1, 326 235	13,000	1,980
Total	160, 402	15, 569	73,000	7, 280

BY DREDGES

	121.1-3			Oyster d	lredges	Scallop o	lredges
	2,718	Counties	102.18 000 1005 000	Oysters, 1 publ		Scall	ops
Beaufort	189,981	- 1004 . Mg	1050 . min	Pounds 56,700	Value \$5, 250	Pounds	Value
Carteret.				12, 950 7, 000	1, 203 500	439, 128	\$36, 594
Hyde Pamlico.			an market a	117, 600 292, 250	8,400 16,675		
To	tal			486, 500	32, 028	439, 128	36, 594

BY TONGS, RAKES, AND HAND

C 31

Apparatus and species	Bruns	swick	Cart	eret	Da	are	Hy	de
Tongs: Clams, hard Oysters, market, public Oysters, market, private	Pounds 30, 400	Value \$7,600	Pounds 600 383, 600 1, 750	Value \$150 22, 101 125	Pounds 344 14, 637	Value \$97 1, 242	Pounds 316, 442	Value \$15, 063
Total	30, 400	7,600	385, 950	22, 376	14, 981	1, 339	316, 442	15, 063
Rakes: Clams, hard Crabs, soft Oysters, market, public Scallops	71, 200	17, 800	79, 728 1, 332 5, 180 112, 698	18, 860 200 444 9, 391	14,651	1, 243	3, 200	600
Total	71, 200	17,800	198, 938	28, 895	14,651	1, 243	3, 200	600
Hand: Clams, hard Oysters, market, public	2, 400 25, 900	600 925	34, 864 263, 578	7, 282 11, 782		14 91		ngarw M 18
Total	28, 300	1, 525	298, 442	19, 064			10000	19 011

Yield of shore fisheries of North Carolina in 1923, by apparatus, counties, and species-Continued

Apparatus and species	New Hanover		Onslow		Pamlico		Pender		Total	
Tongs: Clams, hard	Pounds	Value	Pounds	Value	Pounds	Value	Pounds 2,800	Value \$700	Pounds 34, 144	Value \$8, 547
Oysters, market, public			58, 415	\$6, 021	54, 950	\$3, 110	21,000	1,000	849, 044	48, 537
Oysters, market, private			18 	008 008	7,000	500			8,750	625
Total	ومداسيل		58, 415	6,021	61, 950	3,610	23, 800	1,700	891, 938	57, 709
Rakes: Clams, hard Crabs, soft	18, 000	\$5, 375	8118170	121.11			7, 200	1, 800	179, 328 1, 332	44, 435 200
Oysters, market, public Scallops		210019	1						19, 831 112, 698	1, 687 9, 391
Total	18,000	5, 375					7, 200	1,800	313, 189	55, 713
Hand: Clams, hard Oysters, market, public	28,000	1, 400	12, 800	3, 200			8,400	400	50, 064 325, 878	11, 082 14, 507
Total	28,000	1,400	12,800	3, 200			8,400	400	375, 942	25, 589

BY TONGS, RAKES, AND HAND-Continued

BY OTHER APPARATUS

Species	Carteret		Dare		Martin		Total	
Alewives	Pounds	Value	Pounds	Value	Pounds 54,000	Value \$648	Pounds 54,000	Value \$648
Carp Catfish					200 300	\$048 6 5	200 300	\$048 6 5
White perch Crabs, soft	84, 121	\$12, 592			600	54	600 84, 121	54 12, 592
ShrimpScallops	$3,335 \\ 2,748$	$\begin{array}{c}100\\229\end{array}$				010000000	3, 335 2, 748	$100 \\ 229$
Turtles Terrapin			360 5, 000	\$120 500			360 5, 000	120 500
Total	90, 204	12, 921	5, 360	620	55, 100	713	150, 664	14, 254

INDUSTRIES

Wholesale trade.—The wholesale trade in fresh fish, oysters, etc., in North Carolina in 1923 was conducted by 54 firms, having an investment of \$301,192. The number of persons employed was 475 and the wages paid amounted to \$112,646. In the salt-fish trade there were 22 establishments with an investment of \$282,428. There were 194 persons employed and the wages paid amounted to \$82,459. The products salted included alewives, 8,200 pounds, valued at \$202; mullet, 531,000 pounds, valued at \$56,895; and spot, 271,000 pounds, valued at \$21,775; a total of \$10,200 pounds, valued at \$78,872. Most of these firms engaged in the fresh-fish trade also.

Oyster-canning industry.—There were six establishments, valued at \$144,440, engaged in canning oysters, having a working capital of \$20,500 and employing 300 persons, to whom \$50,548 were paid in wages. The products included 37,857 cases of canned oysters, valued at \$190,613, and 4,400 tons of lime made from oyster shells, valued at \$23,750.

Statistics of these industries are given in detail in the following tables:

Wholesale fresh-fish trade of North Carolina in 1923

. valued together at	Items	1108h and 255 000- \$218,000 nounds.	Number	Value
Establishments Cash capital	pounds, value	6.180.01 mizoo no	54	\$213, 092 88, 100
Persons engaged Wages paid		Transfer and anostan	475	112, 646

Salt-fish trade of North Carolina in 1923	0,578 6	hity an Thorse
and \$17,413, and a per c antra raine. There was also	Number	Value
Establishments. Cash capital Persons engaged Wages paid	22 194	\$241, 428 41, 000 82, 459
Alewives Mullet Spot	8, 200 531, 000 271, 000	202 56, 895 21, 775
Total	810, 200	78, 872

NOTE .- Most of the above firms also handled fresh fish.

Oyster canning and by-products industries of North Carolina in 1923

Items	Number	Value
Establishments Cash capital Persons engaged Wages paid	6 300	\$144, 440 20, 500 50, 548
PRODUCTS Oysters, canned: 4-ounce (4 dozen)	$667 \\ 33, 222 \\ 3, 968$	3, 337 167, 958 19, 318
Total	37, 857	190, 613
BY-PRODUCTS tons	4, 400	23, 750

NOTE.—The poultry grit output of two firms is included under South Carolina. The statistics for one firm canning shrimp are included under the east coast of Florida. In addition to the canned products and by-products above, there were produced canned alewives and porpoise oil having a combined value of \$11,119.

FISHERIES OF SOUTH CAROLINA

The fisheries of South Carolina are less extensive than those of the other South Atlantic States. In 1923 the number of persons engaged was 2,164, of whom 1,052 were fishermen in the vessel and shore fisheries, 94 were on transporting vessels, and 1,018 were engaged in fishery industries, including the wholesale fishery trade and canning industry.

The investment in the fisheries was \$606,781, which included 50 fishing and transporting vessels of 597 net tons, valued at \$73,300, with outfits valued at \$8,200; 750 boats, valued at \$38,025; fishing apparatus used on vessels and boats to the value of \$24,872; shore and accessory property valued at \$366,884; and cash or working capital amounting to \$95,500.

 $69239 - 26^{\dagger} - 12$

The total yield of the fisheries in 1923 was 6,763,279 pounds, valued at \$284,791. The most important species taken, arranged in order of value, were oysters, 5,032,342 pounds or 718,906 bushels valued at \$113,955; shad, 183,916 pounds, valued at \$43,721; mullet, 152,500 pounds fresh and 253,000 pounds salted, valued together at \$35,200; sea bass, 218,000 pounds, valued at \$20,300; and sturgeon, including sturgeon caviar, 49,981 pounds, valued at \$16,708.

Compared with 1918 there was an increase of 164, or 8.20 per cent, in the number of persons engaged; \$385,530, or 174.25 per cent, in the investment; and 3,016,347 pounds, or 80.50 per cent, in the quantity and \$77,101, or 37.12 per cent, in the value of the products. There was an increase in the oyster production of 321,216 bushels, or 81 per cent, and \$17,413, or 18 per cent, in value. There was also an increase in the catch of shad, mullet, sea bass, and various other species. In the catch of sturgeon and a few other species there was a decrease.

The following tables give, by counties, the number of persons engaged, investment, and products of the fisheries of South Carolina in 1923:

Counties	On vessels fishing	On vessels transport- ing	In shore fisheries	Shore- men	Total
Beaufort Charleston	8	84 10	225 283 72	622 331	931 632 72
Georgetown Horry			284 180	60 5	344 185
Total	8	94	1,044	1,018	2, 164

Persons engaged in the fisheries of South Carolina in 1923, by counties

Investment in the fisheries of South Carolina, in 1923, by counties

Items	Be	aufort	Cha	arleston	Co	lleton	Geo	rgetown	H	orry	r	Total
Vessels, fishing: Gasoline. Tonnage.		Value	No.	Value \$3, 500	No.	Value	No.	Value	No.	Value	No.	Value \$3, 500
Outfit				2,000								2,000
Vessels, transporting: Gasoline Tonnage		\$37, 500	6 68	10, 200	- 003	1.07/1	- 110	100 P.00		100 944 	15 224	
Outfit Sail		2,700 22,100		550								3, 250 22, 100
Tonnage Outfit		2,950									362	2,950
Power boats Sailboats	2	1,000		4,750			38 8	\$16, 300 800		1.1.1.1.1	18	22, 325
Rowboats Apparatus, vessel fisheries: Lines	243	4, 960	181	2, 365 100		\$1, 110	147	4, 075	54	1, 390	674	13, 900
Apparatus, shore fisheries: Haul seines	1.1	H18 9,8	158	07 20	1.37	ocati	3	350	13	1.345	16	and at
Gill nets Stop nets	30	700	40	2, 500		2, 690	144	14, 070				21,460
Lines Spears Otter trawls		50		150				25 300	25	22	55	
Tongs Rakes	20	120	63	3	10.2		20 56	100 45	25	22	46 84	250 70
Grabs	248	310 149, 898		165 195, 159		40	20	25 20, 177		1,650	425	366, 884
Cash capital Total		52,000	2123	38,000	273.11		7.0 10	4, 500		1,000	770	95, 500
Total		274, 288		260, 472		3,840	tor-	60, 767		7, 414		606, 78

Yield of the fisheries of South Carolina in 1923, by counties and species

Species	Beauf	ort	Charl	eston	Colleton		
is, and squelengue or "sen	Pounds	Value	Pounds	Value	Pounds	Value	
Catfish	1 Uunus	runac			1 ounus	rutuc	
Crevalle		5	2,000 7,000	350			
Crooker	1.1018 Jan 1997		20,00	1,000	11111111		
Drum black			10,000	300			
Drum, black Drum, red, or redfish Flounders Groupers		1	17,00	850	227301115	1111111	
Flounders			1,00	50			
Groupers	10.12	100000	8,00	480	100-10-10	1	
King whiting			60,00			1	
Red snapper			2,00				
Red snapper			7, 50	525	11107.121	1115111	
Sea bass	**********		218,00	20, 300			
Shad	92 450	\$6, 900	27, 44		24 967	\$7, 584	
Sharks	20, 400	φ0, 300	18,000				
Shapphand	*********		1,00		and the second s	A REAL PROPERTY.	
Sheepshead		0277172	3,000		000000000		
Shales			500				
Spot, fresh Squeteague or "sea trout" Sturgeon	1110000011		60, 00		tor month		
Squeleague or sea trout							
Sturgeon comies			3, 213	1, 125 90	104114		
Sturgeon caviar Crabs, hard					IIMPRO 3		
Chaimp	20,000	700	9,000	210			
Shrimp	20,000	700		CCC TAFT		10000000	
Clams, hard	0.000.077		1 205 15			1, 912	
Oysters, market, public	3, 080, 875	71, 405	1,305, 15		89, 194		
Oysters, market, private	67, 116	2, 921	343, 000	10, 750	35, 000	750	
Total	3, 191, 441	81, 926	2, 123, 610	78, 852	159, 061	10, 246	
Species	George	town	Hor	ry	Tota	al	
	Dawada	Value	Dennda	Trales	Desende	Tralas	
Bluefish	Pounds	Value	Pounds	Value	Pounds	Value	
		\$300	5,000	\$400	7,000	\$700	
Catfish		19			2, 500 7, 000	79	
Crevalle			1 000	100	7,000	350	
Croaker	4,200	166	1,800	108	26,000	1, 274	
Drum, black Drum, red, or redfish	3,050	92			13,050	392	
Drum, red, or realish	8,000	400	6,000	480	31,000	1,730	
Flounders		510	20, 050	1,604	27,650	2, 164	
Groupers					8,000	480	
Hickory shad	7, 500	750			7,500	750	
King whiting	2,300	135	21, 100	1,688	83, 400	7, 823	
Mullet, fresh Mullet, salted	_ 20,000	1,000	132, 500	10, 600	152, 500	11, 600	
Mullet, salted	85,000	6,800	168,000	16, 800	253,000	23, 600	
Red snapper					2,000	200	
Scup or porgy			1,000	80	8, 500	605	
Sea bass					218,000	20, 300	
ShadSharks	82, 619	19,997	15, 540	3, 360	183, 916	43, 721	
Sharks					18,000	360	
Sheepshead					1,000	80	
Skates					3,000	60	
Spot, fresh	21,000	1,050	35,000	2,800	56, 500	3, 880	
Spot, salted	10,000	600	40,000	4,000	50,000	4,600	
Squeteague or "sea trout"	6, 500	650	3,800	304	70, 300	6, 954	
Spot, salted Squeteague or "sea trout"	46, 193	13,858			49, 406	14, 983	
Sturgeon caviar	545	1,635			575	1, 725	
Sunfish			1,500	120	1,500	120	
Sunfish Crabs, hard					1 9,000	270	
Shrimp	335,000	11, 725			355,000	12, 423	
Clams, hard	64, 360	6, 923	20, 504	2, 563	2 85, 640	9, 611	
Oysters, market, public	105,000	1,500	7,000	750 3	4, 587, 226	99, 534	
Oysters, market, private					445, 116	14, 421	
Total	810, 367	68, 110	478, 794	45, 657	6, 763, 279	284, 791	

1 27,000 in number.

² 10,705 bushels.

³ 655,318 bushels.

4 63,588 bushels.

FISHERIES BY APPARATUS

In South Carolina in 1923 there was only one vessel engaged in fishing. The entire catch, consisting of groupers, red snappers, and sea bass, was taken with lines and amounted to 160,000 pounds, valued at \$14,180. In the shore or boat fisheries a number of forms of fishing apparatus were used, the most productive of which were grabs, taking 4,884,362 pounds or 697,766 bushels, of oysters, valued at \$101,134. The catch with haul seines, consisting chiefly of mullet and spot, amounted to 443,900 pounds, valued at \$39,011. The catch with gill nets, consisting chiefly of shad, mullet, and sturgeon,

amounted to 351,897 pounds, valued at \$68,774. Lines, which were used only in Charleston County, took 284,000 pounds of various species, valued at \$22,735. The principal species taken with this apparatus were king whiting, sea bass, and squeteague or "sea trout." The catch of shrimp, amounting to 355,000 pounds, valued at \$12,425, was taken with otter trawls. The catch with tongs included oysters, 140,980 pounds or 20,140 bushels, valued at \$12,071; and hard clams 22,448 pounds or 2,806 bushels, valued at \$12,071; and hard clams taken with rakes amounted to 63,192 pounds or 7,899 bushels, valued at \$7,927. Oysters taken by hand without apparatus amounted to 7,000 pounds or 1,000 bushels, valued at \$750. The catch with stop nets, consisting of mullet and spot, amounted to 19,000 pounds, valued at \$1,580, and the catch with gigs or spears, consisting of redfish or red drum, flounders, and squeteague or "sea trout," amounted to 31,500 pounds, valued at \$2,520. The products of the vessel and shore or boat fisheries by counties,

The products of the vessel and shore or boat fisheries by counties, apparatus, and species are given in the following tables:

Yield of the vessel fisheries of South Carolina in 1923, by counties, apparatus, and species

Apparatus and species	Charl	eston
Lines: Groupers Red snappers Sea bass	Pounds 8,000 2,000 150,000	Value \$480 200 13, 500
Total	160,000	14, 180

Yield	$of\ the\ shore$	fisheries of	South	Carolina	in	1923,	by	counties,	apparatus,	and
				species						

	Items		Beauf	ort .	Charles	ston	Colle	ton
Sturgeon			23,450	Value \$6, 900	Pounds 27, 440 3, 213 30	Value \$5, 880 1, 125 90	Pounds 34, 867	Value \$7, 584
Total		2 DV	23, 450	6,900	30, 683	7.095	34.867	7, 584
Lines: Catfish Croaker Crovalle Drum, blac Drum, red, Flounders_ King whiti Scup or po Sea bass Sheepshead Sharks Skates States States	sk or redfish rgy or ''sea trou				2,000 20,000 7,000 10,000 17,000 1,000 60,000 7,500 68,000 1,000 18,000 18,000 18,000 19,000 60,000 60,000 60,000 60,000 60,000	60 1,000 350 300 850 6,000 525 6,800 80 360 60 30 6,000 270		
Total					284,000	22, 735		
Otter trawls: S	hrimp	900 V10	20,000	700	THE BHE	0187	THUC	
Tongs: Oysters, m	arket, public arket, private	groupers.	1 1 1 1 1 1 1 1 1 1 1 1 1	5, 952 2, 119 8, 071	28,000 28,000	4,000		ninisi d so onfa 7
Oysters, m Oysters, m	arket, public arket, privat	touborq h existences	2, 997, 554 37, 457	65, 453 802	1, 305, 157 315, 000	23, 967 6, 750	89, 194 35, 000	1, 912 750
Total	g chielly	u)siamos J	3, 035, 011	66, 255	1, 620, 157	30, 717	124, 194	2, 662
Rakes: Clams,	hard	.boulaya	haaaaaa	m.a.t.t	776	125	1	this
Grand to	tal	nut hälla.	3, 191, 441	81, 926	1, 963, 616	64, 672	159,061	10, 246

Yield of the shore fisheries of South Carolina in 1923, by counties, apparatus, and species—Continued

Items	Georget	own	Hor	ry	Total		
Haul seines:	Pounds	Value	Pounds	Value	Pounds	Value	
Bluefish			5,000	\$400	5,000	\$40	
Catfish Croaker	300 200	\$9 6	1,800	108	$300 \\ 2,000$	11	
Drum, black	50	2	1,000	100	2,000	11	
Drum, red, or redfish			1,000	80	1,000	8	
Flounders	300	15	50	4	350	1	
King whiting	300	15	21,100	1,688	21,400	1,70	
Mullet, fresh	5,000	250	117,500	9,400	122, 500	9,65	
Mullet, salted	30,000	2,400	165,000 1,000	16, 500	195,000 1,000	18,90	
Spot, fresh	6,000	300	34,000	2,720	40,000	3, 0	
Spot, salted	10,000	600	40,000	4,000	50,000	4, 6	
Sunfish			1,500 3,300	120	1,500 3,800	1:	
Sunfish Squeteague or "sea trout"	500	50	3,300	264	3,800	31	
Total	52,650	3, 647	391, 250	35, 364	443, 900	39, 01	
ill nets:	== <u>==</u>		and the		inco u	<u>+a. x</u>	
Bluefish	2,000	300		0100.64	2,000	30	
Cathsh	200	10			200	NO2	
Croaker	4,000	160			4,000	1	
Drum, black	3,000	90	ann an 1	101.0.210	3,000	HALL IS	
Drum, red, or redfish Flounders	8,000 300	400	it:sociti	11111770	8,000 300	4	
Hickory shad	7,500	750	inci inci	August 10.00	7, 500	7	
King whiting	2,000	120	111101-10.00		2,000	1	
Mullet, fresh	15,000	750	084031131	1111111	15,000	7.001	
Mullet, salted	55,000	4,400	natiziciniazion	raaraha-	55,000	4,4	
Shad	82,619	19, 997	15, 540	\$3,360	183, 916	43, 7	
Spot Sturgeon	15,000 46,193	750 13,858	19 <u>8-9</u> -9-	FFF OMAGE	15,000 49,406	14, 9	
Sturgeon caviar	545	1,635	111150-120	1111111	575	14, 9	
Sturgeon caviar Squeteague or "sea trout"	6,000	600	S		6,000	6	
Total	247, 357	43, 835	15, 540	3,360	351, 897	68, 7	
Mullet, fresh Mullet, salted Spot			15,000 3,000 1,000	$1,200 \\ 300 \\ 80$	$ \begin{array}{r} 15,000 \\ 3,000 \\ 1,000 \end{array} $	1, 20 30	
Total			19,000	1, 580	19,000	1, 58	
ines:	a spine and	1 1 N. 1	100				
Catfish					2,000		
Croaker					20,000 7,000	1,0	
Drum, black		-2			10,000	3.	
Drum, red, or redfish					17,000	8	
Flounders					1,000	0	
King whiting					60,000	6,0	
Scup or porgy					7,500	5	
Sea bass					68,000	6,8	
SheepsheadSharks					1,000 18,000	3	
Skates					3,000		
					500	11-12-2 LB	
Spot Squeteague or "sea trout"					60,000	6,0	
Crabs, hard		100015.015			9,000	2'	
Total					284,000	22, 7	
Gigs or spears: Drum, red, or redfish			5,000	400	5,000	4	
Flounders	6,000	480	20,000	1,600	26,000	2,0	
Flounders			500	40	500	Du-N	
Total	6,000	480	25, 500	2, 040	31, 500	2, 5	
	335,000	11, 725			355,000	12, 4	
Otter trawls: Shrimp	000,000					ernoù	
Otter trawls: Shrimp			and a second second	1			
Tongs: Clams, hard	22, 448	1,684			22, 448		
Fongs: Clams, hard Oysters, market, public		1,684			83, 321	5, 9,	
Tongs: Clams, hard		1,684				1, 6 5, 9 6, 1	

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Nore -- The statistics or one firm canding shrimp are included under the east coust of Fiorida.

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¹ Includes positive with from opater shells, made by one firm in Generic and two firms in North Carolina, ² Includes lime from opater shells marke by one firm on the cast coast of Flande.

Items	George	etown	Hor	ry	Total	
Grabs: Oysters, market, public Oysters, market, private	Pounds 105, 000	Value \$1, 500	Pounds	Value	Pounds 4, 496, 905 387, 457	Value \$92,832 8,302
Total	105,000	1, 500			4, 884, 362	101, 134
Rakes: Clams, hard	41, 912	5, 239	20, 504	\$2, 563	63, 192	7,927
By hand: Oysters, market, public			7,000	750	7,000	750
Grand total	810, 367	68, 110	478, 794	45, 657	6, 603, 279	270, 611

Yield of the shore fisheries of South Carolina in 1923, by counties, apparatus, and species—Continued

INDUSTRIES

Wholesale trade.—In the wholesale fish trade in 1923 there were 7 establishments, valued at \$55,162, with cash capital amounting to \$8,500, employing 43 persons, to whom \$35,073 were paid in wages. These firms handled fresh fish, oysters, and hard clams.

Oyster-canning industry.—There were 14 establishments engaged in canning oysters and in utilizing oyster shells, valued at \$309,922, with cash capital amounting to \$77,100, and employing 973 persons, to whom \$135,522 were paid in wages. The pack of canned oysters amounted to 103,956 cases, or 4,546,800 cans of various sizes, valued at \$510,829. In addition to this pack there were prepared from osyter shells, including the product of three plants in other States, 8,586 tons of poultry grit, valued at \$82,048, and 1,324 tons of lime, valued at \$9,775. The following tables give statistics of the wholesale trade and oyster-canning industry of South Carolina in 1923.

Wholesale fishery	trade of	South	Carol	lina	in	1923
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Items	Number	Value
Establishments Cash capital		\$55, 162 8, 500
Persons engaged Wages paid	43	35, 073

Oyster canning and by-products industries of South Carolina in 1923

Items	Number	Value
Establishments Cash capital Persons engaged Wages paid	973	\$309, 922 77, 100 135, 522
PRODUCTS 3-ounce (4 dozen) cases. 4-ounce (4 dozen) do. 5-ounce (4 dozen) do. 6-ounce (4 dozen) do. 8-ounce (2 dozen) do. 10-ounce (2 dozen) .	591 12, 412 72, 387 104 2, 195 16, 267	2, 945 58, 156 365, 300 1, 040 10, 293 73, 095
Total	103, 956	510, 829
Poultry grittonstonsdo	¹ 8, 586 ² 1, 324	82, 048 9, 775
Total	9, 910	91, 823
Grand total		602, 652

Includes poultry grit from oyster shells, made by one firm in Georgia and two firms in North Carolina.
 Includes lime from oyster shells made by one firm on the east coast of Florida.
 NOTE.—The statistics for one firm canning shrimp are included under the east coast of Florida.

FISHERIES OF GEORGIA

The fisheries of Georgia in 1923 gave employment to 2,019 persons, of whom 186 were on vessels fishing, 29 on vessels transporting fishery products, 620 in the shore or boat fisheries, and 1,184 were shoremen in the wholesale fishery trade and oyster and shrimp canning industries.

The investment amounted to \$1,378,704, which includes 42 fishing vessels and transporting vessels, valued at \$202,275, with a net tonnage of 679 and outfits valued at \$36,443; 492 power and other boats, valued at \$137,765; fishing apparatus employed on vessels and boats valued at \$19,832; shore and accessory property valued at \$859,889; and cash capital amounting to \$122,500.

The products amounted to 39,896,386 pounds, valued at \$668,129. The most important species, arranged in the order of their value, were shrimp, 10,668,380 pounds, valued at \$373,303; menhaden, 26,973,000 pounds, valued at \$149,850; oysters, 1,720,334 pounds or 245,762 bushels, valued at \$86,771; shad, 133,750 pounds, valued at \$27,890; sea bass, 104,090 pounds, valued at \$8,327; red snapper, 104,970 pounds, valued at \$7,347; and hard crabs, 120,000 pounds, valued at \$7,000.

Compared with 1918 there was an increase of 339, or 20.18 per cent, in the number of persons engaged in the fisheries and fishery industries; \$608,706, or 79.05 per cent, in the investment; and 2,742,433 pounds, or 7.38 per cent, in the quantity and \$252,086, or 60.59 per cent, in the value of the products. There was an increase in the catch of shrimp of 4,874,915 pounds and \$199,313 in value and a considerable increase in the catch of shad and oysters. The catch of menhaden decreased 2,511,600 pounds in quantity but increased \$61,397 in value. There was a decrease in the catch of red snapper and sea bass but a large increase in the catch of hard crabs.

The following tables give, by counties, the number of persons employed, investment, and the quantity and value of the products of the fisheries in 1923:

Counties	On vessels fishing	On vessels transport- ing	In shore fisheries	Shoremen	Total
Bryan Camden Chatham Effingham	$\frac{122}{42}$		$36 \\ 36 \\ 207 \\ 16$	91 175	$36 \\ 249 \\ 440 \\ 16$
Glynn. Liberty. Long	22	$\frac{7}{2}$	190 36 2	545 46	764 84
McIntosh. Wayne		4	$83 \\ 14$	327	414 14
Total	186	29	620	1, 184	2, 019

Persons engaged in the fisheries of Georgia in 1923, by counties

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Items Of Items	Br	yan	Ca	mden	CI	hatham	Eff	inghan	n C	lynn
Vessels, fishing: Gasoline Tonnage		Value	No. 5 201	Value \$122,000	_ 185	\$33, 440		Valu	ue No. 11 83	Value \$26, 63
Vessels transporting: Gasoline	(w	104	878.	10, 010	1	1,000	-	aus		5, 10
Tonnage Outfit Sail		in 1 0		i 	- 5	- 75			53	- 65
Tonnage Outfit					111	455	111			
Power boats Rowboats Apparatus, vessel fisheries:	18	\$360	13 10	13, 000 200				8 \$16	0 10 000	55
Purse seines Lines Otter trawls			4	7, 200 50	0110	300				550
Dredges Apparatus, shore fisheries:	3.6	bour	1877) 1877)	-bau	- 2	100				000 AV7
Gill nets Otter trawls Grabs	da	540	10 13	300 650	104	131		8 24	0 20 85 4	600 4, 250
Tongs Lines Shore and accessory property	14-122			78,000	- 104	520 40 518, 229	144-4			160, 109
Cash capital	1			15,000	6.00	37,000		+		40,000
Total	10.9	900	ar a	256, 318	1.130	- 618, 780	l in	40	0	327, 023
Items	Li	berty	I	long	Mel	Intosh	Wa	yne	т	otal
Vessels fishing: Gasoline	No.	Value				Value	No.	Value	No. 24	Value \$182, 075
Tonnage Outfit Vessels transporting:	nin:	111111	2 1222	:			0114		469 _	34, 763
Gasoline Tonnage	$1 \\ 20$	\$2,000		1 232223	$\begin{array}{c}2\\21\end{array}$	\$3,600		511013 511013	10 99	11, 700
Outfit Sail Tonnage		200				300 .	1.100			1, 225 8, 500
Outfit Power boats Rowboats Apparatus, vessel fisheries:	9 36	5,700 1,040		\$20	$\begin{array}{c} 27\\ 68\end{array}$	23, 900 1, 515	9	\$180	$\frac{145}{347}$	455 130, 300 7, 465
Purse seines Lines									4	7,200
Otter trawls Dredges Apparatus, shore fisheries;									$\begin{array}{c} 16\\2\end{array}$	780 100
Gill nets Otter trawls				30	19 20 39	1, 180 1, 000	19	270	146 118	4, 560 5, 900
Grabs Tongs Lines	24	45 144			39 6	42		н.н. .	183 134	246 706 40
Shore and accessory property Cash capital		10, 400 4, 000				93, 151 26, 500				859, 889 122, 500
		23, 529		- 50		151, 254		450		1, 378, 704

Investment in the fisheries of Georgia in 1923, by counties

Yield of the fisheries of Georgia in 1923, by counties and species

Species 11	Br	yan	Cam	den	Chatl	nam	Effin	gham	Gly	nn
Drum, red, or redfish Flounders	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs. 600 200	Value \$36
Groupers Grunts	p-in	0.761	0.888.1	artour	11, 413 123	\$571 10	-10	durcha		
Jewfish King whiting	1	28.8	2.14.1		2, 767	111	-220-1	-i-i	1,000	100
Menhaden Mullet			26, 973, 000	\$149, 850					4,000	1101.1.
Pinfish or sailor's choice Red snapper Scup or porgy	I.I				400 104, 970 1, 601	7, 347				
Sea bassShad	35, 640	\$7,560	7,000	600	104, 090	8, 327		\$3, 360	3,300	700
Spot Squeteague or "sea trout".	and the second	0 0 0 0 0 0 0							600 5, 000	
Striped bass Crabs, hard Shrimp				19,600	360 120,000 135,000	7,000	11011	2001	7, 982, 380	970 905
Oysters, market, public Oysters, market, private	No.				712,775	50, 913	200	Louila	49, 595	1.063
Octopus Terrapin	adai		id. mi	12011H	50 1, 200			t:::tt	Thirto	111115
Total	35, 640	7, 560	27, 540, 000	170, 050	1, 399, 104	102, 845	15, 840	3, 360	8, 050, 175	282, 230

Species	Libe	erty	Lo	ong	MeInt	tosh	Wa	yne	Tot	al
Drum, red, or redfish					Lbs.		Lbs.		600	
Flounders Groupers									200	12
Groupers		62		1					11, 413	
Grunts Hickory shad							101020		123	
Hickory shad			1,000	\$100	5,660	\$576	3, 850	\$390	10, 510	
Jewfish King whiting									2,767	
Manhadan			******						26 073 000	140 850
Menhaden Mullet									4 000	240
Pinfish or sailor's choice	10	00							400	24
Pinfish or sailor's choice Red snapper			Lawrence.						104,970	
Scup or porgy									1,601	
Sea bass									104,090	8, 327
Sea bassShad			330	70	4, 100	850	2,310	490	133, 750	27, 890
Spot Squeteague, or "sea trout"									600	
Squeteague, or "sea trout"									5,000	
Striped bass									360	
Sturgeon					32,000	3,600			32,000	
Sturgeon caviar					38	114				
Crabs, hard					1 001 000	20 202			¹ 120, 000 10, 668, 380	7,000
	45 721	\$1 060	******		1, 991, 000	2 444			2 948, 787	57, 380
Oysters, market, public Oysters, market, private	- 40, 701	10 025			244 400	10 780			\$ 771, 547	29, 391
Octopus										
Terrapin										
. orrapin									1, 200	-,000
Total	330, 253	11.985	1.330	170	2. 517. 884	89,049	6, 160	880	39, 896, 386	668, 129
			-,							

¹ 360,000 in number. ¹ 135,541 bushels.

⁸ 110,221 bushels.

FISHERIES BY APPARATUS

The yield of all forms of apparatus employed in the vessel fish-eries of Georgia in 1923 amounted to 28,233,374 pounds, valued at \$203,602. The catch by purse seines, consisting entirely of men-haden, amounted to 26,973,000 pounds, valued at \$149,850. The catch with lines, consisting of various species, the more important of which were red snapper and sea bass, amounted to 225,774 pounds, valued at \$16,611. Otter trawls were used in taking shrimp, the catch amounting to 1,006,600 pounds, valued at \$35,141. The catch with dredges consisted of 28,000 pounds, or 4,000 bushels, of ovsters, valued at \$2,000.

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In the shore or boat fisheries the catch amounted to 11,663,012 pounds, valued at \$464,527. The apparatus used included gill nets, grabs, tongs, otter trawls, and lines. The catch with gill nets, consisting of a number of species and including as its most important item the entire catch of shad, amounted to 188,298 pounds, valued at \$34,094. The catch with grabs consisted of 824,670 pounds, or 117,810 bushels, of oysters, valued at \$38,918, and with tongs, 776,545 pounds, or 110,935 bushels, valued at \$43,865. Otter trawls took 9,661,780 pounds of shrimp, valued at \$338,162. The entire catch of shrimp in both the vessel and shore fisheries was taken with this apparatus, but no other species was taken. Lines were used in taking hard crabs, the catch amounting to 120,000 pounds, valued at \$7,000, which was the total catch of this species for the State. There were taken by hand, without apparatus, 91,119 pounds, or 13,017 bushels, of oysters, valued at \$1,988, and 600 pounds of terrapin, valued at \$500.

The products taken with the various forms of fishing apparatus employed in the vessel and shore or boat fisheries are given by counties and species in the appended tables:

Yield of the vessel fisheries of Georgia in 1923, by apparatus, species, and counties

Apparatus and species	Cam	den	Chat	ham	Gl	ynn	Tot	Total		
Purse seines: Menhaden	Pounds 26, 973, 000	Value \$149, 850	Pounds				Pounds 26, 973, 000	Value \$149, 850		
Lines: Groupers Jewfish Pinfish or sailor's choice Red snapper. Scup or porgy. Sea bass. Striped bass. Octopus.			$11,413 \\ 123 \\ 2,767 \\ 400 \\ 104,970 \\ 1,601 \\ 104,090 \\ 360 \\ 50 \\ 50$	10 111 24 7, 347 182			$11, 413 \\ 123 \\ 2, 767 \\ 400 \\ 104, 970 \\ 1, 601 \\ 104, 090 \\ 360 \\ 50$	111 24 7, 347 182		
Total			225, 774	16, 611			225, 774	16, 611		
Otter trawls: Shrimp	100,000	3, 500	135,000	4, 725	771, 600	\$26, 916	1,006,600	35, 141		
Dredges: Oysters, market, private			28,000	2,000			28,000	2,000		
Grand total	27, 073, 000	153, 350	388, 774	23, 336	771,600	26, 916	28, 233, 374	203, 602		

Yield	of the shore	fisheries of	Georgia in	1923, by	apparatus,	species, and	l counties
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Apparatus and species	Br	yan	Can	iden	Chatl	ham	Effin	gham	Glyı	m
Gill nets: Drum, red, or redfish	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs. 600	Value \$36
Flounders King whiting Mullet					Ligging.	2122212			200 1,000 4,000	12 100 240
Shad	35, 640			\$600	65, 230	\$14, 260	15, 840	\$3, 360	3, 300 600	700 36
Squeteague or "sea trout" Terrapin					600	500		52222	5, 000	500
Total	35, 640	7, 560	7,000	600	65, 830	14, 760	15, 840	3, 360	14, 700	1, 624
Grabs: Oysters, market, public Oysters, market, private	ncila:	 		00	285, 110 39, 375				39, 676 2, 800	850 200
Total					324, 485	22, 577			42, 476	1,050

Yield of the shore fisheries of Georgia in 1923, by apparatus, species, and counties— Continued

Apparatus and species	Br	yan	Can	nden	Chatl	nam	Effin	gham	Gly	nn
Tongs: Oysters, market, public Oysters, market, private	Lbs.	Value	Lbs.	Value	<i>Lbs.</i> 427, 665 71, 750		Lbs.	Value	Lbs.	Value
Total	010	0.06		10.00	499, 415	34, 672		15.16	1.8 -17	20162
Otter trawls: Shrimp	11.177		460, 000	\$16, 100		69-97-4	111 7	12 800	7, 210, 780	\$252, 37
Lines: Crabs, hard					120, 000	7,000				
By hand: Oysters, market, public Oysters, market, private Terrapin					600	500			9, 919 700	213 50
Total					600	500			10, 619	263
Grand total	35, 640	\$7, 560	467,000	16, 700	1, 010, 330	79, 509	15, 840	\$3, 360	7, 278, 575	255, 314

Apparatus and species	Lib	erty	Lo	ong	McIn	tosh	Wa	yne	Tot	al
Gill nets: Drum, red, or redfish		Value		Value	Lbs.	Value	Lbs.	Value	600	
Flounders Hickory shad King whiting			1,000	\$100	5, 660	\$576	3, 850	\$390	1,000	1,066 100
Mullet Shad Spot Squeteague or "sea trout"			330			850			600	27, 890 36
Sturgeon caviar Terrapin					32,000	3, 600 114			32,000	3,600
Total			1, 330	170	41, 798	5, 140	6, 160	880	188, 298	34, 094
Grabs: Oysters, market, public Oysters, market, private	22, 862 142, 261	\$980 5, 012			60, 186 232, 400				407, 834 416, 836	
Total	165, 123	5, 992	<u>.</u>		292, 586	9, 299			824, 670	38, 918
Tongs: Oysters, market, public Oysters, market, private	22, 869 142, 261	980 5, 013			112,000	3, 200		101-55	450, 534 326, 011	31, 528 12, 337
Total	165, 130	5, 993			112,000	3, 200			776, 545	43, 865
Otter trawls: Shrimp					1, 991, 000	69, 685			9, 661, 780	338, 162
Lines: Crabs, hard									120,000	7,000
By hand: Oysters, market, public Oysters, market, private Terrapin.						1, 725			90, 419 700 600	. 50
Total	endios.		in de		80, 500	1, 725			91, 719	2, 488
Grand total	330, 253	11, 985	1, 330	170	2, 517, 884	89, 049	6, 160	880	11, 663, 012	464, 527

ADITOT IN THE ADIT OF ADIT OF ADIT

Wholesale trade.—In 1923 there were 13 establishments in the wholesale fresh-fish trade in Georgia, valued at \$175,701, with cash capital amounting to \$37,000 and employing 179 persons, to whom \$85,462 were paid in wages. These firms handled fresh fish, oysters, and shrimp.

Canning industry.—There were 13 establishments, including 2 firms on the east coast of Florida, in the canning industry, valued at \$294,578. The cash capital used amounted to \$83,000. There

were 1,050 persons employed, to whom \$150,859 were paid in wages. These firms were engaged in canning oysters, shrimp, and other fishery products and also in the preparation of poultry grit from oyster shells, which is included in the statistics for South Carolina. The canned products included 24,449 cases, or 1,154,736 cans, of canned oysters, valued at \$126,877, and 93,019 cases, or 4,315,488 cans, valued at \$554,660. Other canned fishery products were valued at \$3,200. Statistics of the wholesale fresh fish trade and canning industry in 1923 are given in the following tables:

Wholesale fishery trade of Georgia in 1923

Items .	Number	Value
Establishments Cash capital	13	\$175, 701 37, 000
Persons engaged Wages paid	179	85, 46

NOTE.—The statistics for Georgia's one menhaden plant are included under the general tables for the South Atlantic States, and the output of its one shell plant is included under South Carolina.

Items	Number	Value
Establishments	13	\$294, 578
Cash capital Persons engaged	1,050	83,000
Wages paid		150, 859
Total		528, 437
Dysters canned: PRODUCTS 5-ounce (4 dozen)	23, 665 278	123, 051 1, 251
10-ounce (2 dozen)	506	2, 575
Total	24, 449	126, 877
Shrimp canned:	86, 793 6, 226	518, 563 36, 097
Total	93, 019	554, 660
Grand total	117, 468	681, 537

Oyster and shrimp canning industry of Georgia in 1923¹

¹ Includes two firms in Florida (east coast).

NOTE.-In addition to canned shrimp and oysters there were produced \$3,200 worth of miscellaneous canned fishery products.

FISHERIES OF EAST COAST OF FLORIDA

The statistics here presented are for the east coast of Florida, which among the South Atlantic States was surpassed in the extent of its fisheries only by North Carolina. The number of persons engaged in the fisheries in 1923 was 2,807, of whom 237 were on fishing and transporting vessels, 1,810 were in the shore or boat fisheries, and 760 in the wholesale fish trade, menhaden industry, and canning industry.

firms on the east coast of Plorida, in the canning industry valued
The investment amounted to \$2,320,880 and includes 14 fishing and transporting vessels, valued at \$226,400, with a net tonnage of 594 tons and outfits valued at \$46,033; 1,306 power and row boats, valued at \$532,550; fishing apparatus used on vessels and boats, valued at \$131,614; shore and accessory property to the value of \$1,106,083; and cash capital amounting to \$278,200.

The products amounted to 86,895,922 pounds, valued at \$1,719,921. The principal species taken, arranged in the order of their value, were shrimp, 11,024,045 pounds, valued at \$385,361; menhaden, 57,918,030 pounds, valued at \$276,209; mullet, 6,198,200 pounds, valued \$194,092; Spanish mackerel 2,469,400 pounds, valued at \$187,247; cero and kingfish, 1,965,457 pounds, valued at \$161,077; bluefish, 1,100,550 pounds, valued at \$147,321; squeteague or "sea trout," 1,198,400 pounds, valued at \$122,854; shad, 502,866 pounds, valued at \$62,447; catfish, 783,440 pounds, valued at \$38,372; alewives, 1,048,000 pounds, valued at \$26,700; sunfish, 476,809 pounds, valued at \$19,672; oysters, 502,264 pounds, or 71,752 bushels, valued at \$17,835; and sea crawfish or spiny lobster, 156,200 pounds, valued at \$11,634.

Compared with 1918, there was a decrease of 523, or 15.71 per cent, in the number of persons engaged but an increase of \$110,201, or 4.98 per cent, in the investment. There was an increase of 5,684,434 pounds, or 7 per cent, in the quantity, with a decrease of \$26,254, or 1.5 per cent, in the value of the products. There was an increase in the catch of alewives, bluefish, blue runner or hardtail, catfish, menhaden, squeteague or "sea trout," shrimp, crabs, sea crawfish or spiny lobster, oysters, and various other species. There was a decrease in a number of species, the more important of which were mullet, pinfish or sailor's choice, pompano, sergeant fish or snook, shad, Spanish mackerel, and spot.

Statistics of the number of persons engaged, investment, and products of the fisheries of the east coast of Florida in 1923, by counties, are given in the following table:

Counties	On vessels fishing	On vessels transport- ing	In shore fisheries	Shoresmen	Total
Brevard Broward Clay	025.6		149 10 17	18	167 10 17
Dade Duvall Lake			$17 \\ 104 \\ 156 \\ 12$	13 90	17 125 345 12
Nassau Palm Beach	124	4	433 377	534 47	1, 095 424
Putnam St. John St. Lucie		2	$\begin{array}{c}164\\51\\212\end{array}$	$\begin{array}{c} 3\\31\\24\end{array}$	$ \begin{array}{r} 167 \\ 84 \\ 236 \end{array} $
Seminole Volusia			65 60		65 60
Total		6	1, 810	760	2, 807

Persons engaged in the fisheries of the east coast of Florida in 1923

U. S. BUREAU OF FISHERIES

Investment in the fisheries of the east coast of Florida in 1923, by counties

Items	Br	evard	Bre	oward	C	lay	I	Dade	D	uvall	L	ake	N	assau
Vessels fishing: Steam	1.110	Value							1	\$30, 600				Value \$124, 700
Tonnage Outfit Gasoline			1111					\$1, 500	2	10,000			0.0	
Gasoline Tonnage Outfit Vessels transporting:			323				9	250	93	14,000			106	4, 550
Vessels transporting: Gasoline Tonnage											1.1.1		2 24	1,600
Outfit Power boats Rowboats Apparatus, vessel fish-	68 139	\$21, 500 4, 020	3	\$1,000 75	4 13	\$800 330	39	20, 650	71 35	28, 450 1, 050	2 6			292, 800
eries: Purse seines Otter trawls	12.22.		1111				1	1,000	•3	2, 100	100		43	7, 200 150
Apparatus, shore fish- eries: Purse seines		101.00	1.1			- 0.0		6, 000		17 el	iqi .	og (00.	6,048
Haul seines Gill nets Lines	141	16,950	2	300	4	. There		2, 500		10, 200 120			10	
Otter trawls Crab traps Dip nets										75			204	
Grabs.))		·						1644	10g-1			100	di al
property Cash capital	1995	43, 200 9, 000		·····		40	i- 17-19	19,000 7,500	201 1	418, 369 109, 500		2,000		363, 686 98, 000
Total	1240-	94, 670		1, 805	1.4	2, 010	1.	59, 162	Les	651, 484		3, 865		961, 273

Items		Palm leach	Pu	tnam	Ser	ninole	St.	John	St.	Lucie	Vo	olusia	201	Total
Vessels fishing: Steam Tonnage								2		Value			No. 4 353	\$155, 300
Outfit Gasoline Tonnage Outfit			1101			10.20		0.19	1111				7 208	
Gasoline Tonnage							1	\$2, 500	113		20	111	3 33	4, 100
Outfit Power boats Rowboats Apparatus, vessel fish-	202	\$73, 250 1, 090	34 105	\$7, 850 2, 675	14 44	\$2,650 1,125	27 26		105	\$50,000 1,000		\$4, 050 1, 870		
eries: Purse seines Otter trawls Apparatus, shore fish-				-111-									83	
eries: Purse seines Haul seines Gill nets Lines	3 126	1,800 20,325	27 29	6, 100 2, 750			2	100	1 125	21, 250	 1 41	5,800	568	16, 160 80, 475
Lines Cast nets Spears Otter trawls							$ \begin{array}{c} 6 \\ 3 \\ 12 \end{array} $	30 3 600		860			6 3 226	30 3 12,000
Crab traps Dip nets Tongs Rakes	1	7						90	5	35		119	31 35	
Grabs Shore and accessory property Cash capital		111, 300		15.723		2.025		43, 392 2, 500		82, 248 21, 500		5, 100	4	4 1, 106, 083 278, 200
Total														

FISHERY INDUSTRIES OF THE UNITED STATES, 1924

Yield of the fisheries of the east coast of Florida in 1923 by counties and species

Species	Brev	ard	Bro	ward	Cl	ay	Dad	le	Duv	al
Angel fish	Lbs.		Lbs.	Value	Lbs.	Value	Lbs.	Value \$4	Lbs.	Value
Barracuda		A water			19965		500	20		
Black bass					2,400	\$360				100.00
Bluefish			6 200	\$930	-, 100	4000	23, 100	915	1,150	\$103
Bluefish Blue runner or hardtail			6 000	300			600		1,100	
Catfish			0,000	000	100,000	5 000		40		
Cero and kingfish			1 5 000	1 000	100,000	5,000	050 057	00 000		
Cero and kingfish Crappie Crevalle			15,000	1, 200			258, 857	20, 880		
Crappie		·++++=================================			2, 200				deneric pop	
Crevalle	400	\$12					500		300	15
Croaker	500	20								
Drum, black	11.600	348		1					2,100	105
Drum, red, or redfish	20, 400		300	21	1.166.000			25/2/2/2/2	2,750	195
Flounders	500					and the				19
Groupers	000						6,000	260	200	12
							300	000		20101-1
Grunts										
Hogfish							350			
King whiting	14,800	1,160							13, 600	
Menhaden Mullet									24, 639, 030	109, 643
Mullet	3, 148, 200	107.382	20,000	600			810,000	15,700	26,000	1, 350
Permit	richard and									1979
Pigfish	5 800	174	000			22012.02	AND DOUGL		22.2.2.2.2.2.2	
Pinfish or sailor's choice	26, 200	786					100	5		
Pompano	20, 200	100					200	40	150	38
Fompano	200	40				10	1 200	40	100	90
Pompano Scup or porgy Sea bass							1,000	80	11218	
Bea bass			150	12					1,000	
Shad									134, 750	17, 150
Sheepshead	5, 200	156			1					
Snapper, mangrove							2,000	200		c. veult
Snapper, mangrove Snapper, mutton	2,100	63		0.0000			5,600	560		2 Sunf7
Snapper, red	-, -00						3,000	300	800	56
Snook or sergeant fish	500	15						000	000	00
Chanish machanal	000	10	19 000	1 000			20 000	2 045		
Spanish mackerel			12,000	1, 200			29,000	5,045		
Spot	18,400								600	
Squeteague or "sea trout".	436,000	47, 410							29, 500	3, 540
Sunfish					28,000	1,680				
Yellowtail or "silver				1 · · ·	1.1.1				1 N - 51	
perch"		STRUCK.		1			400	32		1.
Crabs, hard					12.1				72,000	3,600
Sea crawfish or spiny lob-									,	0,000
ster	000 1		1000	1. 136	18 NY	1.1.1	156 200	11 634		
Shrimp							100, 200	11,001	150,000	5, 250
Sump									100,000	0, 200
T 1 1	0 000 000			1 050	100 000	- 101	1 007 007	-0.000	05 070 000	140 100
Total	13, 690, 800	158.747	160.150	4. 278	1132 600	7.194	1. 297. 807	58.900	25. 073. 930	142, 132

Species	La	ke	Nass	au	Palm I	Beach	Putn	am	St. J	ohns
Alewives, fresh	260,000					Value				
Alewives, salted										
Amberfish	1				3,900					
Angel fish					2,300					
Barracuda					1,600	48				
Black bass	20, 200	2,020					30, 100	3,040		
Bluefish					658,700	98, 295			600	\$60
Blue runner or hardtail					125,000	2,650				
Bonito Catfish					350	12	350, 000			
Catfish	92,000	4,700					350,000	16,600		
Cero and kingfish				11	1. 587, 000	126,670				
Crappie	10,800	548		1000			34,000	1,910		
Crevalle	,				73, 200	2,206				6
Croaker					11,650			0000000	900	45
Drum, black					1,200				3,000	
Drum, black Drum, red, or redfish					4,600					
Flounders					400	23			1,750	
Groupers									1,100	100
Grunts		******			2,850				100	3
					2,800				100	0
Hogfish					250					
Jewfish			100 000						1,600	140
King whiting			100,000	\$2,000	9, 500	424				
Leatherjacket or "tur-	a to a second	and have been	and the second second	Section 1	100	10			s station	
bot" Menhaden					400	16				
Menhaden			33, 279, 000	166, 566						
MOODIISH		TO			1,400				11011120	
Mullet		++			355, 400		24,000	1,000	11,000	610
Permit					1,600					
Pigfish	12	1			300	16			250	
Pinfish or sailor's choice					3, 530	107			700	33
Pompano						2,628			1,000	200
Pompano Porkfish			300200		2,000					
Scup or porgy					1,000					

400

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Yield of the fisheries of the east coast of Florida in 1923 by counties and species-Continued

Species	La	ke	Nass	Nassau		Palm Beach		Putnam		St. Johns	
Sea bass		Value		Value	Lbs. 725	Value \$44	Lbs.	Value	Lbs. 500	Value \$30	
Shad			7,000	\$600		772		\$33, 256			
Sheepshead					15, 950 9, 900			CTUTIOT.	350	21	
Snapper, mangrove					76,000	2,440					
Snapper, red Snook or sergeant fish					4,000 45,100	1, 362					
Spanish mackerel					1, 163, 400						
Spot Squeteague or "sea trout" Sunfish			10, 000	300	3, 500 97, 500			12,000	23, 500	150 2, 350	
Yellowtail or "silver perch"					22, 650						
Shrimp			10, 424, 045	364, 341							
Clams, hard Oysters, market, public Oysters, market, private			224, 000 5, 250			120			126,000	3, 750	
Total	491, 000	20, 405	44, 049, 295	538, 892	4, 326, 605	354, 751	1, 797, 900	88,006	653, 810	27, 269	

Species	St. L	ıcie	Sem	inole	Vol	usia	Total		
	T 1	12.1	T 1.			77.7	71	T7.3	
	Lbs.	Value		Value			Lbs.	Value	
Alewives, fresh							1,020,000	\$25, 50	
Alewives, salted							28,000	1, 20	
Amberfish							4, 100	12	
Angel fish Barracuda	800						3, 200	11	
Barracuda	600	18					2,700	8	
Black bass			29, 593	\$2,959			82, 293	8,37	
Bluefish	409, 800	46,868			1,000	\$150	1, 100, 550	147, 32	
Blue runner or hardtail Bonito	47,800	1.246					179,400	4, 24	
Bonito	,						350	1	
Catfish			241.440	12.072			783, 440	38, 37	
Cero and kingfish	104,600	7 322		12, 072 920			1, 965, 457	161, 07	
Crappie		1,022	18 403	020			65, 403	3, 53	
Crevalle		2 720	10, 105	020	1 000	60	164, 600	5, 04	
Proglam	8,200	2, 130			300	12	21, 550	5, 04	
Droaker	22,400								
Drum, black	22, 400							1, 51	
Drum, red, or redfish		2,614	*******		7,600	368		4, 43	
Flounders	1,600	278			1,400	54		48	
Froupers		96					17, 200	90	
Grunts							7,650	30	
Hogfish	1,000	30					1, 550	6	
ewfish							250		
King whiting	22, 200	948			13.600	1, 180	175, 300	6,81	
eatherjacket or "turbot"		0			140.000		400	1	
Menhaden							57, 918, 030	276, 20	
Moonfish							2, 200	6	
Mullet		41 868			442 000	14 070		194, 09	
Permit		108			112,000	14,070	5, 700	154, 03	
	3,000	100			7 000		14 150		
Pigfish	800	24			7,000	210	14, 150	43	
Pinfish or sailor's choice	17,600	540			3,000	90	51, 130	1, 56	
Pompano	23, 400	4,680			6,000	1,300	60, 650	8, 92	
Porkfish							2,000	6	
Scup or porgy							2,000	11	
Sas bass		108			11.001		4, 175	26	
Shad			61, 316	8,044			502, 866	62, 44	
Sheepshead	9,000	326			1,600	54	32, 100	1, 32	
Snapper, mangrove		476					26, 500	1,00	
Snapper, mutton		1.242		· · · · · · · · · · · · · · · · · · ·			123, 100	4, 30	
Snapper, red		190					11,600	77	
Snook or sergeant fish		2 887			300	0	139,700	4, 27	
panish maakaral	1 965 000	90, 360			000	9	2, 469, 400	187. 24	
Spot Squeteague or "sea trout" Sunfish Y ellowtail or "silver perch" Crabs, hard	32,000	1 300			14 200	559	2, 409, 400	2, 87	
Squatagrama or "son trout"	504 500	50 070			07 400	8 524	1 108 400		
Sunfish	504, 500	50, 970	60 000	9 750	97, 400	0, 034	-1, 198, 400	122, 85	
Vollowtoil on failman nar-h	5 000	100	08, 809	2, 152			476, 809	19,67	
Tenowian or "suver perch"	5,600	168					28,650	89	
Jraus, nard							1 72,000	3,60	
ca crawhan or spiny looster							100, 200	11, 63	
Shrimp							11, 024, 045	385, 36	
lams, hard							2 4, 560	1,66	
Oysters, market, public	17, 500	2,000			97,664	4, 405	3 466, 214	14, 47	
Clams, hard Oysters, market, public Oysters, market, private					14,000	675	4 36, 050	3, 36	
Total								100120	
I Utal	4, 188, 000	200, 025	419, 001	20, 141	714, 464	31, 975	86, 895, 922	1, 719, 92	

¹ 216,000 in number.

² 570 bushels.

³ 66,602 bushels.

4 5,150 bushels.

FISHERIES BY APPARATUS

The total catch taken by vessels in the fisheries of the east coast of Florida in 1923 amounted to 58,118,030 pounds, valued at \$280,709, the species taken being menhaden, mullet, and shrimp. The only forms of fishing apparatus used on vessels were purse seines and otter trawls. The catch with purse seines included 57,918,030 pounds of menhaden, valued at \$276,209, which was the entire catch of this species. There were also taken with this apparatus 100,000 pounds of mullet, valued at \$1,500. The catch with otter trawls consisted of 100,000 pounds of shrimp, valued at \$3,000.

In the shore or boat fisheries the catch amounted to 28,777,892 pounds, valued at \$1,439,212. The forms of fishing apparatus used include purse seines, haul seines, gill nets, lines, otter trawls, cast nets, spears, crab traps, dip nets, tongs, rakes, and grabs. Gill nets were the most productive form of apparatus used, the catch amounting to 11,038,780 pounds, valued at \$675,056. The principal species taken with gill nets were mullet, 5,381,200 pounds, valued at \$175,562; Spanish mackerel, 2,418,500 pounds, valued at \$183,110; squeteagues or "sea trout," 1,056,900 pounds, valued at \$108,834; bluefish, 980,800 pounds, valued at \$133,240; and shad 278,750 pounds, valued at \$38,935. The catch with otter trawls, which was next in importance, amounted to 11,034,045 pounds, valued at \$384,661, and included 10,924,045 pounds of shrimp, valued at \$382,361; 100,000 pounds of king whiting, valued at \$2,000; and 10,000 pounds of squeteague or "sea trout," valued at \$300. The entire catch of shrimp was taken with this form of apparatus. The catch with seines amounted to 3,565,611 pounds, valued at \$148,551. Purse seines took 684,000 pounds, valued at \$16,050, including 660,000 pounds of mullet, valued at \$14,850, and 24,000 pounds of bluefish. valued at \$1,200.

The catch with haul seines amounted to 2,881,611 pounds, valued at \$132,501. The principal species taken were alewives, 1,048,000 pounds, valued at \$26,700; catfish, 743,440 pounds, valued at \$36,372; shad, 224,116 pounds, valued at \$23,512; and sunfish, 476,809 pounds, valued at \$19,672. The catch with lines amounted to 2,434,782 pounds, valued at \$197,663. Among the more important species taken with lines were bluefish, 76,200 pounds, valued at \$10,544; catfish, 40,000 pounds, valued at \$2,000; cero and kingfish, 1,962,457 pounds, valued at \$160,777; snook or sergeant fish, 36,900 pounds, valued at \$1,116; Spanish mackerel, 32,900 pounds, valued at \$2,457; squeteague or "sea trout," 118,000 pounds, valued at \$12,110; and hard crabs, 40,000 pounds, valued at \$2,000. The catch of mullet and various other species with cast nets amounted to 8,150 pounds, valued at \$457. There were taken with spears 1,500 pounds of flounders, valued at \$90. Crab traps were used in taking hard crabs, the catch amounting to 32,000 pounds, valued The total catch of sea crawfish or spiny lobster, amountat \$1,600. ing to 156,200 pounds, valued at \$11,634, was taken with dip nets. The forms of apparatus used in taking oysters and hard clams were The catch of hard clams with tongs tongs, rakes, and grabs. amounted to 3,040 pounds, or 380 bushels, valued at \$1,110; and with rakes 1,520 pounds, or 190 bushels, valued at \$555. The catch of oysters with tongs amounted to 155,414 pounds, or 22,202 bushels,

U. S. BUREAU OF FISHERIES

valued at \$9,900; with rakes to 12,600 pounds, or 1,800 bushels, valued at \$1,350; and with grabs to 14,000 pounds, or 2,000 bushels, valued at \$1,490. There were also taken by hand, without apparatus, 320,250 pounds of oysters, or 45,750 bushels, valued at \$5,095. The products of the vessel and shore fisheries of the east coast of Florida taken by each form of fishing apparatus in 1923 are given by counties and species in the following tables:

Yield of vessel fisheries of the east coast of Florida in 1923, by counties, apparatus, and species

Apparatus and species Dade		Duv	all	Nass	au	Total		
Purse seines: Menhaden Mullet	Pounds 100,000	Value \$1, 500	<i>Pounds</i> 24, 639, 030	Value \$109, 643	<i>Pounds</i> 33, 279, 000	Value \$166, 566	Pounds 57, 918, 030 100, 000	Value \$276, 209 1, 500
Total Otter trawls: Shrimp	100, 000	1, 500	24, 639, 030	109, 643	33, 279, 000 100, 000	166, 566 3, 000	58, 018, 030 100, 000	277, 709 3, 000
Grand total	100, 000	1, 500	24, 639, 030	109, 643	33, 379, 000	169, 566	58, 118, 030	280, 709

Yield of the shore fisheries of the east coast of Florida in 1923, by counties, apparatus, and species

Apparatus and species	Brow	ard	Cl	ay	Da	de	Duvall	
Purse seines: Bluefish Mullet					Pounds 20, 000 550, 000	Value \$600 11,000	Pounds	
Total					570,000	11,600		
Haul seines: Black bass Bluefish	1.200	\$180	2, 400	\$360	. 11	1 ? 	150	\$23
Catfish Crappie Crevalle				154				
Drum, black Drum, red, or red fish	-				11110510		600 1, 250	30 90
Flounders King whiting Mullet	15,000	450					2,000	12 480 150
Pompano Spot Squeteague or "sea trout"							150 600 5, 500	38 45 660
Sunfish						11.1117		
Total	- 16, 200	630	92, 600	5, 194			16, 350	1, 543
Grand total	16, 200	630	92, 600	5, 194	570, 000	11, 600	16, 350	1, 543

BY SEINES

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Yield of the shore fisheries of the east coast of Florida in 1923, by counties, apparatus, and species—Continued

Apparatus and species	La	ke	Palm 1	Beach	Pu	itnam	Semi	nole
Purse seines: Bluefish	Pounds	Value	Pounds 4,000	Value \$600	Pound			
Mullet			110,000	3,850			++++ +	
Total			114,000	4, 450				
Haul seines:	ne di	225 T.	÷.					1.10.001
Alewives, fresh Alewives, salted	260,000	\$6, 500			760, 0 28, 0		00	
Black bass	20, 200	2,020			20, 0 30, 1	$\begin{array}{c c} 00 & 1, 2\\ 00 & 3, 0 \end{array}$	40 29, 593	\$2,95
Bluefish			14,000	1,600				
Blue runner or hardtail Bonito			2 ,000 100	100				
Catfish	92,000	4,700	GA (100	4	350.0	00 16.6	00 241, 440	12,07
Cero and kingfish			3,000	300				
Cero and kingfish Crappie Crevalle	10, 800	548	8,000	240	34, 0	00 1,9	10 18, 403	92
King whiting			200	10				
Mullet			25,000	750	4,0	00 2	.00	
Permit			$\begin{array}{c}100\\3,000\end{array}$	5 90				
Pinfish or sailor's choice Pompano			2,000	400	e.			
Shad Snapper, mutton	27,000	3, 397			135, 8	00 12,0	61, 316	8,04
Snapper, mutton			60,000	1,800				
Spanish mackerel	81,000	3, 240	18,000	1,680	299, 0	00 12,0	68, 809	2,75
Total			125 400					26, 74
Grand total	491,000	20, 405	135, 400 249, 400	6,979 11,429	1, 640, 9	_		26, 74
	491,000	20, 405	249, 400	11, 425	1, 040, 5	00 00,0	415, 501	20, 74
Apparatus and species	St.	John	St. I	Lucie	Vol	usia	Tota	J.
Purse seines:		Value	Pounds	Value	Pounds	Value	Pounds	Value
Bluefish						101100000000000000000000000000000000000	24,000	1,20
Mullet							660,000	14, 85
Total		-					684,000	16, 05
Haul seines: Alewives, fresh		S					1,020,000	25, 50
Alewives, salted							28,000	1,20
Barracuda			200	\$6			200	
Black bass					1,000	\$150	82, 293 19, 550	8, 37 2, 33
Bluefish Blue runner or hardtail			$3,200 \\ 5,000$	384 150	1,000	\$10U		2, 35
Bonito							100	
Catfish							743,440 3,000	36, 37 30
Cero and kingfish Crappie							65,403	3, 53
Crevalle			8,000	240	1,000	60	17,300	55
Croaker	400	\$20	1,000	30	2,000	120	1,400 5,600	5 24
Drum, black Drum, red, or redfish	1,000 5,000	30 250	2,000	00	4,000	$\frac{120}{240}$	10, 250	58
Flounders							200	1
Grunts			800	24	5,000	400	800 15,800	$\frac{2}{1.09}$
King whiting Moonfish	1,000	80	4,000	120 12	5,000	400	400	1,09
Mullet			1,000	30	4,000	240	51,000	1,82
Permit			400	12			500 500	11
Pigfish Pinfish or sailor's choice			400	12			3, 500	11.
Pompano			2,000	400	2,000	500	7, 150	1, 53
Sea bass			800	48			800	22 51
Shad Sheepshead		12					224, 116 200	23, 51
Snapper, mutton							60,000	1,800
Snook or sergeant fish			1,000	30			1,000	3 1,68
Spanish mackerel	2,000	100			200	12	$ 18,000 \\ 2,800 $	1, 08
Spot Squeteague or "sea trout"	5,000				3,000	450	13, 500	1,61
Sunfish			1 000				476, 809 1, 000	19,67
Yellowtail		-	1,000			0.170		
Total	16, 200	1, 222	31, 200	1, 588	22, 200	2,172	2, 881, 611	132, 501
Grand total	16,200	1,222	31,200	1,588	22,200		3, 565, 611	

BY SEINES-Continued

U. S. BUREAU OF FISHERIES

Yield of the shore fisheries of the east coast of Florida in 1923, by counties, apparatus, and species—Continued

Apparatus and species	Brev	ard	Brow	vard	Da	de	Duval	
Bluefish	Pounds	Value	Pounds 5,000	Value \$750	Pounds 3,000	Value \$300	Pounds	Value
Blue runner or hardtail			6,000	300	0,000	4000		
Crevalle		\$12	0,000	000	********	*******		
	500	20						******
Croaker		348			********			******
Drum, black	11,600							0010044
Drum, red, or redfish	20, 400	612	300	21	*******			
Flounders	500	17			********			
King whiting	14, 800	1, 160		1112001				127-22
Mullet		107, 382	5,000	150	160,000	3,200	24,000	\$1, 200
Permit			500	15		******		
Pigfish		174						
Pinfish or sailor's choice	26,200	786						
Pompano	200	40						
Sea bass			150	12			o car o cos to	
Shad							134,750	17, 150
Sheepshead		156				12000000		100
Snapper, mutton		63					010101030	10.0
Snook, or sergeant fish	500	15						
Spanish mackerel		10	12,000	1,200	27,500	2,820		
Spot	18,400	552	12,000	1, 200	21,000	-,020		
Squeteague or "sea trout"	436,000	47, 410					101100000	0.74
squeteague or sea trout	430,000	47, 410						
Total	3, 690, 800	158, 747	28, 950	2, 448	190, 500	6, 320	158, 750	18, 350
Apparatus and species	Nassa	u	Palm B	each	Put	tnam	St. J	ohns

BY GILL NETS

Apparatus and species	Nass	au	Palm E	Beach	Putr	nam	St. Jo	hns
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	
Angel fish			300	\$12				
Bluefish			592, 400	88,850				
Blue runner or hardtail			123,000	2,550				
Crevalle			49, 200	1,486			200	\$6.
Croaker			11,650	351				
Drum, black			800	26			500	15
Drum, red, or redfish			2,100	46			1,000	50
Flounders				18				
Grunts				32				
King whiting			8,900	402				60
Moonfish			1,400	45			000	00
Mullet			220, 400	6,912	20,000	\$800	5,000	250-
Permit			1, 500	51	20,000		5,000	200
Pigfish			300	16			50	3
Pinfish or sailor's choice			530	17			100	5
				2,228				0
Pompano			2,000	2, 228				
Porkfish				30			111111111	
Scup or porgy								
Sea bass			300	16	107 000			
Shad					137, 000			
Sheepshead			10, 800	504			100	6
Snapper, mangrove				206				
Snapper, mutton			12,600	428				
Snook or sergeant fish			12, 400	372				
Spanish mackerel				90, 550				
Spot			3,500	188				30
8 queteague or "sea trout"			68, 500	6,850			3,000	300
Yellowtail or "silver perch"			22,650	697				
				200		and a second	harped del	

FISHERY INDUSTRIES OF THE UNITED STATES, 1924

Yield of the shore fisheries of the east coast of Florida in 1923, by counties, apparatus, and species—Continued

Apparatus and species	St. L	ucie	Vol	usia	Total	
- Faine Franch Fature Fornalis Fature	Pounds	Value	Pounds	Value	Pounds	Value
Amberfish	200	\$6			200	St
Angel fish		42			1,100	54
Barracuda		12			400	15
Bluefish	380, 400	43, 340			980, 800	133, 240
Blue runner or hardtail	42,800	1,096			171, 800	3, 946
Crevalle		2,346			126,000	3, 850
Croaker	7, 200	216	300	\$12	19,650	599
Drum, black	20, 400	616	4,400	132	37,700	1, 137
Drum, red, or redfish		2,206	3,000	110	94, 800	3, 043
Flounders		270	1,400	54	3, 600	359
Grunts		120			4, 200	152
Hogfish	1,000	30			1,000	30
King whiting	17, 200	798	8,600	780	50, 100	3.200
Moonfish	400	12	8,000	100		3, 200
		41,838	438,000	12 020	1,800	
Mullet		±1, 858 96	455,000	13, 830	5, 381, 200	175, 562
Permit	3, 200 400		7 000		5, 200	162
Pigfish	400	12	7,000	210	13, 550	415
Pinfish or sailor's choice	17,600	540	3,000	90	47, 430	1,438
Pompano		3, 880	4,000	800	51, 300	6, 948
Porkfish					2,000	60
Seup or porgy					1,000	30
Sea bass		60			1,450	88
Shad					278, 750	38, 935
Sheepshead	6,800	260	1,600		24, 500	980
Snapper, mangrove	7,600				14, 200	472
Snapper, mutton		1, 182			52, 100	1,673
Snook or sergeant fish		2,731	300	9	101, 800	3, 127
Spanish mackerel	1, 239, 000	88, 540			2, 418, 500	183, 110
Spot	32,000	1,390	14,000	540	68, 500	2,700
Spot Squeteague or "sea trout"	467,000	47, 160	82,400	7,114	1,056,900	108, 834
Yellowtail or "silver perch"	4,600	138			27, 250	835
Total	3, 905, 200	239, 203	568,000	23, 735	11, 038, 780	675,056

BY GILL NETS-Continued

BY LINES

Apparatus and species	Bro	ward	Cl	ay	Da	de	Du	val	Palm I	Beach
Amberfish					Lbs.	Value	Lbs.	Value	Lbs. 3,900	Value \$125
Angelfish					100	\$4			2,000	
Barracuda										
Bluefish					100	10	1,000	\$80	48, 300	7, 243
Blue runner or hardtail					600	48				
Bonito									250	8
Catfish Cero and kingfish			40,000	\$2,000						
Cero and kingfish	15,000	\$1,200			258, 857	25, 885			1, 584, 000	
Crevalle					500					
Drum, black								75		
Drum, red, or redfish							1,500	105		
Flounders									100	
Groupers					6,000	360			8,800	444
Grunts					300	24			2,250	104
Hogfish						28			200	6
Jewfish									250	7
King whiting							8,000	480	400	12
Leatherjacket or "turbot"							-,		400	16
Pinfish or sailor's choice					100	5				
Pompano						40				
Scup or porgy										
Sea bass					1,000	00	1 000	70	425	28
Observations of the second sec							1,000	10	5,150	
Sheepshead										122
Snapper, mangrove									3, 300	
Snapper, mutton										
Snapper, red					3,000		800			
Snook or sergeant fish									32, 700	
Spanish mackerel					1,500	225				
Spanish mackerel Squeteague or "sea trout"							24,000	2,880	29,000	2, 900
Yellowtail or "silver perch"					400	32				
Crabs, hard							40,000	2,000		
Total	15,000	1,200	40,000	2,000	281, 107	27, 846	77, 800	5, 746	1, 754, 725	140, 259

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U. S. BUREAU OF FISHERIES

Yield of the shore fisheries of the east coast of Florida in 1923, by counties, apparatus, and species—Continued

Apparatus and species	St. Jo	St. Johns		St. Lucie		Volusia		Total	
	Pounds	Value	Pounds	Value	Pounds	Value		Value	
Amberfish							3, 900	\$122	
Angelfish							2, 100	64	
Barracuda							2,100		
Bluefish	600	\$60							
Blue runner or hardtail							600		
Bonito							250	1.	
Catfish							40,000	2,000	
Cero and kingfish			104,600	7,322			1, 962, 457	160, 777	
Crevalle			4,800	144			21, 300	644	
Drum, black							2,400	102	
Drum, red, or redfish	2,000	120	10,200	408	600	\$18	16,800	809	
Flounders	150	9					450	22	
Groupers			2,400	96			17,200	900	
Grunts		3					2,650	131	
Hogfish							550	34	
Jewfish							250	1	
King whiting			1.000	30			9,400	522	
Leatheriacket or "turbot"							400	16	
Pigfish Pinfish or sailor's choice	100	3					100	2	
Pinfish or sailor's choice	*00	0					100		
Pompano			2 000	400			2,200	440	
Scup or porgy			2,000				1,000	80	
Sea bass	500	30					1, 925	128	
Sheepshead	000	00	2,200				7, 350	334	
Snapper, mangrove							12,300	532	
Snapper, mutton							11,000	832	
Snapper, red							11,600	776	
Snook or sergeant fish			3,000				36,900	1. 116	
							30, 900	2, 457	
Spanish mackerel	15 500	1 550	26,000		12,000			12, 110	
Squeteague or "sea trout". Yellowtail or "silver perch"	15, 500	1, 550	37, 500	3, 810	12,000	970	400	12, 110	
renowtan or "suver perch"								2,000	
Crabs, hard							40,000	2,000	
Total	19, 450	1,790	234, 100	17, 834	12, 600	988	2, 434, 782	197, 663	

BY LINES-Continued

BY CAST NETS, SPEARS, AND OTTER TRAWLS

Apparatus and species	Du	val	Nassau St.		St. J	ohns	Tota	1
Pinfish or sailor's					6, 000 100	Value \$25 40 6 360 3 20	$\begin{array}{c} Pounds \\ 500 \\ 1,000 \\ 100 \\ 6,000 \\ 100 \\ 50 \\ 400 \end{array}$	Value \$25 40 6 360 3 3 20
Total					8, 150	457	8, 150	457
Spears: Flounders					1, 500	90	1, 500	90
Otter trawls: King whiting Squeteague or "sea trout" Shrimp		\$5, 250	100, 000 10, 000 10, 324, 045	\$2,000 300 361,341	450,000	15, 770	100, 000 10, 000 10, 924, 045	2,000 300 382,361
Total	150,000	5, 250	10, 434, 045	363, 641	450,000	15, 770	11, 034, 045	384, 661

BY CRAB TRAPS AND DIP NETS

Apparatus and species	Da	ade	Duval		Total	
Crab traps: Crabs, hard	Pounds	Value	Pounds 32,000	Value \$1,600	Pounds 32,000	Value \$1,600
Dip nets: Sea crawfish or spiny lobsters	156, 200	\$11,634	52,000		156, 200	11, 634

Yield of the shore fisheries of the east coast of Florida in 1923, by counties, apparatus, and species—Continued

Apparatus and species	Nas	sau	Palm B	each	St. Johns		
Fongs: Clams, hard Oysters, market, public Oysters, market, private			Pounds 1,050	Value \$120	Pounds 3,040 14,000 11,200	Value \$1, 110 1, 500 1, 200	
Total			1,050	120	28, 240	3, 810	
Rakes [.] Clams, hard Oysters, market, public Oysters, market, private					1, 520 7, 000 5, 600	553 750 600	
Total					14, 120	1, 905	
Grabs: Oysters, market, public Oysters, market, private	10, 500 3, 500	\$900 590					
Total	14,000	1,490					
By hand: Oysters, market, public Oysters, market, private	213, 500 1, 750	3, 300 295			105, 000	1, 5000	
Total	215, 250	3, 595			105, 000	1, 500	
Apparatus and species	St.	Lucie	Volusia		Total		
Tongs: Clams, hard Oysters, market, public Oysters, market, private		Value \$2, 000	Pounds 97, 664 14, 000	Value \$4, 405 675	Pounds 3,040 130,214 25,200	Value \$1, 110 8, 025 1, 875	
Total	17, 500	2,000	111, 664	5, 080	158, 454	11, 010	
Rakes: Clams, hard Oysters, market, public Oysters, market, private					1, 520 7, 000 5, 600	555 750 600	
Total					14, 120	1, 905	
Grabs: Oysters, market, public Oysters, market, private					10, 500 3, 500	900 590	
Total					14,000	1, 490	
By hand: Oysters, market, public					318, 500 1, 750	4, 800 295	
Oysters, market, private					1,100		

BY TONGS, RAKES, GRABS, AND HAND

INDUSTRIES

Wholesale trade.—There were 50 establishments on the east coast of Florida in 1923 engaged in the wholesale trade in fishery products, valued at \$524,475. The cash capital amounted to \$115,700. There were 321 persons employed, to whom \$172,064 were paid in wages.

Canning industry.—In the shrimp-canning industry in 1923 there were 7 establishments, including 1 in North Carolina and 1 in South Carolina, valued at \$210,970. The cash capital amounted to \$40,000, and 501 persons were employed, to whom \$114,909 were paid in wages. The pack of canned shrimp in these canneries amounted to 53,857 cases, or 2,074,392 cans of various sizes, valued at \$302,199. By-products to the value of \$10,600 were also prepared from shrimp on the east coast of Florida. Two oyster canneries on the east coast of Florida are included in the statistics for Georgia, and the lime from oyster shells at one plant with the statistics for South Carolina.

The following tables give statistics of the wholesale fish trade and shrimp-canning industry:

	Wholesale fishery trade of the east coast of Florida in 1	923	amelO
	Items	Number	Value
Establishment: Cash capital	S	50	\$524, 475 115, 700
Persons engage Wages paid	d	321	172, 064

Shrimp-canning industry of the east coast of Florida in 1923¹

Items	Number	Value
Establishments Cash capital		\$210, 970 40, 000
Persons engaged	. 501	114, 909
Wages paid		114, 909
PRODUCTS		
Shrimp canned:	32, 576 4, 370 16, 911	198, 025 24, 692 79, 482
Total	53, 857	302, 199

¹ Includes one firm in North Carolina and one firm in South Carolina.

NOTE.—In addition to canned shrimp on the east coast of Florida there were \$10,600 worth of by-products from shrimp. Two firms canning oysters on the east coast of Florida are included under Georgia, and the output of lime from one shell plant is included under South Carolina. The statistics for its two menhaden plants are included under the general tables for the South Atlantic States.