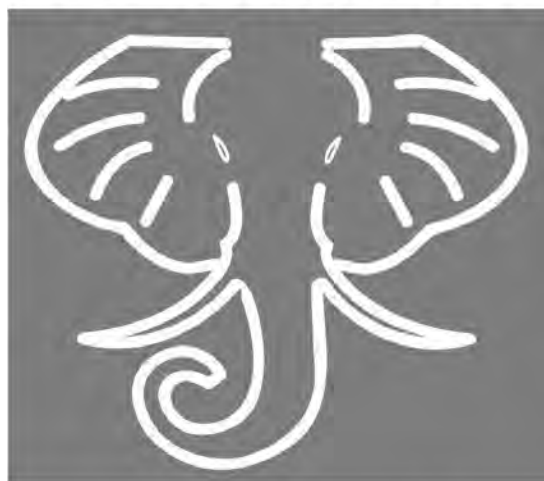


## Reports.

Washington (State).  
Olympia [etc.]

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STATE OF WASHINGTON  
DEPARTMENT OF FISHERIES AND GAME,  
DIVISION OF FISHERIES.

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THIRTY-SECOND AND THIRTY-THIRD  
ANNUAL REPORTS

OF

State Supervisor of Fisheries

FOR THE

Period From April 1, 1921, to March 31, 1923

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ERNEST SEABORG  
STATE SUPERVISOR OF FISHERIES



OLYMPIA  
FRANK M. LAMBORN, PUBLIC PRINTER  
1924



STATE OF WASHINGTON  
DEPARTMENT OF FISHERIES AND GAME  
DIVISION OF FISHERIES,

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THIRTY-SECOND AND THIRTY-THIRD  
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FOR THE

Period From April 1, 1921, to March 31, 1923

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ERNEST SEABORG  
STATE SUPERVISOR OF FISHERIES

---

STATE FISHERIES BOARD  
E. A. SIMS, Chairman  
EDWARD P. BLAKE, Member  
H. RAMWELL, Member

---

FRED J. DIBBLE,  
Director of Fisheries and Game

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OLYMPIA  
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1924

SEATTLE, WASHINGTON, April 1, 1923.

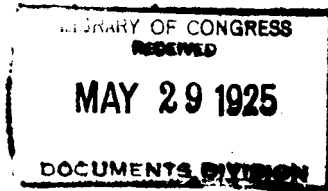
*To His Excellency, Louis F. Hart, Governor of Washington.*

SIR: In compliance with the provision of the law requiring the same, I have the honor to submit herewith the Thirty-second and Thirty-third Annual Reports of the State Supervisor of Fisheries of the State of Washington for the years ending March 31, 1922, and March 31, 1923, respectively.

Respectfully submitted,

ERNEST SEABORG,

*State Supervisor of Fisheries.*



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## THIRTY-SECOND AND THIRTY-THIRD ANNUAL REPORTS

The opening of the present biennium witnessed the beginning of a new system of control of the fisheries of the state. The office of the State Fish Commissioner passed out of existence, and under the terms of the new Civil Administrative Code, the duties heretofore performed by the State Fish Commission and the State Fish Commissioner in making regulations and enforcing the laws relating to conservation and control of the food fishes of the state were delegated to the State Fisheries Board and the Director of Fisheries and Game, which official in turn appoints the Supervisor of Fisheries, who has actual supervision of all work of the Division of Fisheries.

A unique feature of the new control is that the Board is given practically unlimited power over the fisheries of the state, with the right to say how, when and where, if at all, fishing operations may be carried on, the only state in the union which gives its Fisheries Board such wide-reaching powers, and the experiment is being watched with much interest by the other states and some foreign countries and provinces who are confronted with problems similar to those we have faced or are facing at present.

### FISHERY RESOURCES OF THE STATE.

The developed fishery resources of the State of Washington are very large. Prof. John N. Cobb, of the College of Fisheries, University of Washington, in a recent tabulation of the fisheries of the various states of the Union, places this state fifth in value of products and ninth in the quantity of products produced, an extraordinary showing when the fact is taken into account that our fisheries, which are still in a partly undeveloped condition, had their origin less than 50 years ago, have been very much hampered in the past because the bulk of the population was east of the Mississippi River and thus out of reach for other than our highest priced products—salmon and halibut—and the lack of adequate transportation facilities. These handicaps are slowly being removed, but our problem still remains largely one more of distribution and markets than of production. Of the many species available some have never been utilized at all, while others have been but sparingly used.

The fresh and salt waters of the North Pacific teem with edible animal life. It has been estimated that there are present in them all or part of the year about 590 known species of fish. Of these about 150 enter somewhat actively into consumption, but only about 30 species may be said to be in common use, the others figuring but slightly in the aggregate. Some 85 species of mollusks, crustaceans, reptiles and mammals enter more or less actively into the commercial fisheries either as food, or for the preparation of secondary products. Many species of algae are to be found in our waters, or in those adjacent, but while some of these make excellent food and others might furnish chemical products of great value to man, almost no use at present is made of them. Of the above a large part of the species are found in our local waters or in the ocean adjacent to our coast. Professor Cobb is now preparing for this department, a comprehen-

sive report on the developed and undeveloped fishery resources of the state which, it is hoped, will be ready for distribution this year.

The close of the fiscal year 1919 saw the end of the great fishery products boom caused by the war, and with the great falling off in the demand for food products from all over the world came a great reduction in the prices received for same, this necessitating a readjustment of wage and other costs, and as a result there was a closing down of many plants, some permanently, while practically all that continued operations did so on a much smaller scale than for the previous four years. This resulted in a considerable falling off in production during 1920, also in the license receipts, which are based mainly on the quantities of products handled. The same was also true in 1921, the first year of the present biennium, and the same was true in a lesser degree of 1922, although at the close of the biennium the prospects for a good season in 1923 were very bright.

In the summaries below figures are given mainly for the biennium but in the detailed tables which follow they are shown for the separate years.

The combined values of the various fishery products marketed during 1921 amounted to \$9,806,931.02 and in 1922 to \$9,014,486.10, a total of \$18,821,417.12 for the biennium. These values are based upon the average wholesale prices received for the products.

The effect of the collapse of the boom in fishery production, due to the ending of the war, is shown in the table giving the value of canneries operated and their fishing appliances and capital invested. In 1919 this amounted to \$19,565,261.73; in 1920 to \$11,628,080.48; in 1921 to \$14,505,320.99; and in 1922 to \$9,718,321.96. The loss fell wholly upon the Puget Sound district, the investment in this district amounting in 1919 to \$17,056,852.42; in 1920 to \$8,937,052.19; in 1921 to \$11,545,388.49; and in 1922 to \$6,050,740.54. All the other districts show an increase in 1922 over the three previous years.

While the quantities of canned products dropped off in the present biennium as compared with the preceding one, the reverse was the case with the products marketed fresh, frozen, kippered, mild-cured, salted and smoked. In 1919 these amounted to 16,260,364 pounds, valued at \$1,670,756.11; in 1920 to 16,840,104 pounds, valued at \$2,153,735.49; in 1921 to 23,210,034 pounds, valued at \$2,249,823.67, and in 1922 to 19,413,023 pounds, valued at \$2,104,673.52. The totals for the biennium of 1921 and 1922 are 42,623,057 pounds, valued at \$4,354,497.19, as compared with 33,100,468 pounds, valued at \$3,824,491.60 for 1919-1920, an increase for the present biennium of 9,522,589 pounds and \$530,005.59.

The value of the catch of shell and food fish (other than oysters) during the biennium amounted to \$524,709.53 as compared with \$744,151.88 in the preceding biennium.

The canned pack of the state for the biennium amounted to 1,368,674 cases, valued at \$10,949,034.33. Of this 1,189,309 cases valued at \$9,733,214.07 was of salmon, while the quantity of clam products canned amounted to 156,381 cases, valued at \$1,070,506.07. The pack of shad was 1,458 cases, valued at \$9,545.42. A beginning has been made in the canning of crabs, 165 cases, valued at \$3,960.00 having been packed, mainly in 1922, and it is probable that this will be rapidly increased in subsequent

years. The pack of miscellaneous products amounted to 21,361 cases valued at \$112,808.77.

The value of the fish by-products amounted in 1921 to \$125,343.24 and in 1922 to \$134,493.39, as compared with \$131,622.46 in 1919, and \$37,742.25 in 1920. As these products are prepared mainly from the offal of fishes used for food the amount produced, of course, either increases or decreases with the latter.

**Salmon**—From very early times the salmon industry of the State of Washington has been of importance. At first the great fur trading companies had considerable quantities salted by the natives for the use of their employees and for local sale, and later on developed a trade in them with the Hawaiian Islands, Australia, China, and Japan, and with the eastern United States. The greatest impetus given to the industry was in 1866 when Hapgood, Hume & Co., who had established the first salmon cannery at a little floating plant in the Sacramento River in 1864 established a plant at Eagle Cliff, Washington, on the Columbia River. The first salmon cannery on Puget Sound was built at Mukilteo, in 1877, while in 1883, the late Mr. B. A. Seaborg established the first salmon cannery on Grays Harbor on the site of what is now the city of Aberdeen, and he was also the first to erect a cannery on Willapa Harbor in 1884.

The number of salmon canneries in the State increased at a rapid rate and finally the pack reached its apex in 1913, when 2,752,866 cases of salmon valued at \$14,407,923.00 were packed and marketed. In addition a large number of salmon have also been marketed in a fresh, frozen, smoked, salted and mild-cured condition.

During the biennium just closed the pack of canned salmon dropped off somewhat as compared with earlier years, due somewhat to poor market conditions and also to a lessening of the runs due to overfishing and other causes. The pack in 1921 amounted to 729,974 cases reduced to a common basis of 48 one-pound cans each, valued at \$5,348,210.75; while the pack in 1922 amounted to 462,335 cases, valued at \$4,385,003.32.

During the biennium, the total number of salmon taken from the waters of the state was 10,468,076, and the amount of money paid the fishermen for these was \$5,670,751.21. This is a decrease as compared with the previous biennium and is due mainly to the world-wide depression which started in 1920 and reached its apex in 1922.

A clear idea of the immense importance this canned salmon industry has been to the State of Washington may be gained when it is stated that since canning began in the State in 1866 up to and including 1922, there have been canned 35,079,271 cases of 48 one-pound cans each, or their equivalent. This represents 1,683,805,008 cans, the value of which is roughly computed at \$175,396,355.00.

Owing to having only fragmentary data as to the quantity of salmon preserved in other ways, or sold fresh, it has been impossible to give as complete data of operations in the earlier years as is possible with canned salmon, but it runs well up into the hundreds of thousands of dollars annually.

It has required an enormous number of salmon to supply this demand. Since 1866, up to and including 1922, the catch of salmon in numbers and used for all purposes, has amounted to the enormous total of 376,185,130,



divided as follows: Chinooks, 44,784,422; dog or chums, 36,293,790; humpbacks, 132,246,714; silver or cohoes, 58,306,318; sockeyes or bluebacks, 104,553,886.

#### OUR OFFSHORE FISHERIES.

There is a large fleet of vessels owned and documented in the State of Washington, engaged in the deep sea fisheries of the North Pacific. In all other states such vessels and their catches, wherever landed, would be credited to the state in which they are owned, but through lack of knowledge of the size of the fleet, and the usual method followed in collecting and crediting such statistics, no attention has been paid to it, except to tax such of the products as were brought in to the state for sale. This is but a part of the total catch of such vessels, as much of their catches of halibut are landed in Prince Rupert, Canada, or in the south-east Alaska ports, and should be credited here for statistical purposes at least.

During 1921, the quantity of halibut handled by Washington dealers and upon which tax was paid, amounted to 12,008,649 pounds, valued at \$1,420,331.54, while in 1922 it amounted to 11,300,144 pounds valued at \$1,336,599.47.

During 1921 there were handled by Washington dealers 1,080,555 pounds of fresh and salted cod, valued at \$54,355.00, and in 1922 1,473,468 pounds valued at \$73,346.47. This fishery has probably been the worst sufferer as a result of the falling off in the demand for fishery products.

**Halibut.**—A large fleet, (109 in 1922) of gasoline powered vessels, ranging from 5 to 196 net tons, and employing some 775 men, is owned and has its headquarters on Puget Sound, and visits the fishing banks from off the Oregon coast to the Shumagin Islands off the Alaska Peninsula. During the spring and early summer most of these vessels fish on the more southerly banks and land their cargoes at Seattle, while during the rest of the year many of the fleet fish off the Alaskan coast and land their cargoes in Alaskan ports for sale, or to ship to Seattle by the regular steamers, or else sell at Prince Rupert, British Columbia.

For a number of years the trend was toward the employment of larger and larger vessels in this fishery, as the distances covered were very great, hence the economy of large cargo space. During the past five years, however, the reverse has been the case, as it was found that the comparatively nearby banks which had been depleted by overfishing were once more becoming prolific and the smaller vessels were much more economical than the large ones. Many of the newer vessels are of the purse seine type and during the summer months are taken off the halibut fishery and put into use as salmon purse seiners.

Owing to our faulty system of collecting fishery statistics the state of Washington is credited with but a comparatively small part of the catch of this fleet, only the portion landed at our ports and upon which tax is paid—while the much larger part, which is landed and sold or transhipped at either Alaskan or British Columbia ports is either credited to those places or not shown at all. Under the best statistical practice and under the rules of the U. S. Bureau of Fisheries, the catch of all fishing vessels should be credited to their home ports, which is the customs port where the vessel is registered or licensed. As the total catch of the American fleet was

45,013,112 pounds in 1921 and 36,706,818 pounds in 1922, of which at least two-thirds (30,008,742 pounds in 1921 and 24,471,212 pounds in 1922) was caught by the Puget Sound fishermen, while but 12,153,283 pounds in 1921, and 11,385,044 pounds in 1922 are shown in the statistical data accompanying this report.

In addition to halibut this same fleet also catches and lands considerable quantities of sablefish, rockfishes, ling cod, etc., a small part of this catch being shown in the statistical data accompanying this report.

**Cod.**—A small fleet of sailing vessels, owned and documented from Puget Sound ports, sails to the cod banks in the North Pacific ocean and Bering Sea each spring and returns in the early autumn with the cured catch. The halibut fleet also catches and lands a few thousand pounds each season. In 1921 the cod fishing fleet comprised three schooners of a total net tonnage of 658, while in 1922, the fleet comprised 4 sailing schooners and one power vessel, with a total net tonnage of 1,235. The total catch reported in 1921 was 1,080,555 pounds, valued at \$54,355.00 and in 1922 1,473,468 pounds valued at \$73,346.47.

In this industry there is room for immense expansion as we have some 50,000 square miles of cod banks on the American side of the North Pacific ocean and Bering sea, while an equal area will doubtless be found to exist on the Asiatic shore. A part of our American fleet operated annually on the Asiatic banks from 1858 to 1908, when the fishery was abandoned owing mainly to the harassing tactics of the Russian authorities curtailing the fleet's operations, and also to the fact that the banks on the American side were much nearer our ports and thus cheaper to operate upon.

The principal handicaps our fishermen labor under at present are the distance from the chief centers of population where the cod are marketed, and the prolificness of the Atlantic coast banks despite constant fishing of them since 1504.

#### HALIBUT TREATY WITH CANADA.

For several years the halibut fisheries of the Pacific Ocean have been a source of concern to all interested in them. The Pacific banks are the only ones in the world from which halibut are at present taken in any quantities, and as the greater part of the Pacific fleet is owned by citizens of this state, we are vitally interested in the preservation and perpetuation of this valuable food fish.

Halibut are found from northern California to and in the Gulf of Alaska and in Bering Sea. In the early days of the industry the bulk of the fish were caught in the ocean between Cape Flattery and Dixon's Entrance. As the demand increased and the fleet grew operations were gradually expanded both north and south.

The researches of Thompson\* show that the banks are being rapidly

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\*F. A. Preliminary Report on the Life History of the Halibut. By William F. Thompson. Report of the Commissioner of Fish of B. C. 1914, pp. 76-99, 111s.

Statistics of the Halibut Fishery in the Pacific. Their bearing on the biology of the species and the condition of the banks. By William F. Thompson. Report of Commissioner of Fisheries of B. C. 1915, pp. 65-126.

The problem of the Halibut. By William F. Thompson. Report of Commissioner of Fisheries of B. C. 1915, pp. 130-140.

depleted of fish and the 9 years that have elapsed since he made his report bear out the correctness of his contentions. According to Thompson the factors affecting the depletion of the banks may be tentatively enumerated as follows: (1) The comparatively small extent of the banks in proportion to the great catch, with the peculiar length and narrowness of the continental shelf on which they lie; (2) the large size of the fish; (3) the slow rate of growth indicating the comparatively long time required to reach market size; (4) the late maturity of the females.

Probably the most serious factor affecting the perpetuation of the species is that the popular sizes for markets are those of fish that have never spawned, this latter fact being due to the slow rate of growth of the species and the fact that they are not sexually mature until about the eleventh year. This means that they are killed before they have had an opportunity to perform any of the reproductive functions, and no industry can long endure under such conditions.

The spawning season of the Pacific halibut extends from the end of December to the end of April, being at its height probably in January or February, and as this period coincides with the stormiest period of the year in the North Pacific ocean, the suggestion was early made that a closed season on halibut fishing be established then, thus protecting the spawning fish from capture, and preventing the heavy loss occurring each year to men, vessels and gear from the inclement weather.

On March 2, 1923, the following convention between the United States and Great Britain for the preservation of the halibut fishery of the Northern Pacific ocean, including Bering Sea, was signed.

"The United States of America and His Majesty the King of the United Kingdom of Great Britain and Ireland and of the British Dominions beyond the Seas, Emperor of India, being equally desirous of securing the preservation of the halibut fishery of the Northern Pacific ocean, have resolved to conclude a convention for this purpose, and have named as their plenipotentiaries:

"The President of the United States of America: Charles Evans Hughes, Secretary of State of the United States; and

"His Britannic Majesty: The Honorable Ernest Lapointe, K. C., B. A., LL. B., Minister of Marine and Fisheries of Canada;

"Who, after having communicated to each other their respective powers, found in good and due form, have agreed upon the following articles:

#### ARTICLE I.

"The nationals and inhabitants and the fishing vessels and boats of the United States and of the Dominion of Canada, respectively, are hereby prohibited from fishing for halibut (*Hippoglossus*) both in the territorial waters and in the high seas off the western coasts of the United States, including Bering Sea, and of the Dominion of Canada, from the 16th day of November next after the date of the exchange of ratifications of this convention, to the 15th day of the following February, both days inclusive, and within the same period yearly thereafter, provided that upon the recommendation of the International Fisheries Commission, hereinafter described, this close season may be modified or suspended at any time after the expiration of three such seasons, by a special agreement concluded and duly ratified by the high contracting parties.

"It is understood that nothing contained in this article shall prohibit the nationals or inhabitants and the fishing vessels or boats of the United States and of the Dominion of Canada from fishing in the waters hereinbefore specified for other species of

fish during the season when fishing for halibut in such waters is prohibited by this article. Any halibut that may be taken incidentally when fishing for other fish during the season when fishing for halibut is prohibited under the provisions of this article may be retained and used for food for the crew of the vessel by which they are taken. Any portion thereof not so used shall be landed and immediately turned over to the duly authorized officers of the Department of Commerce of the United States or of the Department of Marine and Fisheries of the Dominion of Canada. Any fish turned over to such officers in pursuance of the provisions of this article shall be sold by them to the highest bidder and the proceeds of such sale, exclusive of the necessary expenses in connection therewith, shall be paid by them into the treasuries of their respective countries.

**ARTICLE II.**

"Every national or inhabitant, vessel or boat of the United States or of the Dominion of Canada engaged in halibut fishing in violation of the preceding article may be seized except within the jurisdiction of the other party by the duly authorized officers of either high contracting parties and detained by the officers making such seizures and delivered as soon as practicable to an authorized official of the country to which such person, vessel or boat belongs, at the nearest point to the place of seizure, or elsewhere, as may be mutually agreed upon. The authorities of the nation to which such person, vessel or boat belongs alone shall have jurisdiction to conduct prosecutions for the violation of the provisions of the preceding article or of the laws or regulations which either high contracting party may make to carry those provisions into effect, and to impose penalties for such violations; and the witnesses and proofs necessary for such prosecutions, so far as such witnesses or proofs are under the control of the other high contracting party, shall be furnished with all reasonable promptitude to the authorities having jurisdiction to conduct the prosecutions.

**ARTICLE III.**

"The high contracting parties agree to appoint within two months after the exchange of ratifications of this convention a commission to be known as the international fisheries commission, consisting of four members, two to be appointed by each party. This commission shall continue to exist so long as this convention shall remain in force. Each party shall pay the salaries and expenses of its own members, and joint expenses incurred by the commission shall be paid by the two high contracting parties in equal moieties.

"The commission shall make a thorough investigation into the life history of the Pacific halibut, and such investigation shall be undertaken as soon as practicable. The commission shall report the results of its investigation to the two Governments and shall make recommendations as to the regulation of the halibut fishery of the North Pacific Ocean, including the Bering Sea, which may seem to be desirable for its preservation and development.

**ARTICLE IV.**

"The high contracting parties agree to enact and enforce such legislation as may be necessary to make effective the provisions of this convention, with appropriate penalties for violations thereof.

**ARTICLE V.**

"This convention shall remain in force for a period of five years and thereafter until two years from the date when either of the high contracting parties shall give notice to the other of its desire to terminate it. It shall be ratified in accordance with the constitutional methods of the high contracting parties. The ratifications shall be exchanged in Washington as soon as practicable, and the convention shall come into force on the day of the exchange of ratifications.

"In faith whereof, the respective plenipotentiaries have signed the present convention in duplicate, and thereunto affixed their seals.

"Done at the city of Washington the 2d day of March, in the year of our Lord 1923.

CHARLES EVANS HUGHES (Seal)  
 ERNEST LAPOINTE (Seal)"

The United State Senate promptly ratified the convention on March 4th, just before the session expired, but attached an amendment to the effect "that none of the nationals and inhabitants and vessels and boats of any other part of Great Britain shall engage in halibut fishing contrary to any of the provisions of this treaty."

As this amendment required the concurrence of all of the provinces of Great Britain, instead of merely Canada alone, as in the original draft, a tedious proceeding requiring much time, and as it was thought that the Senate had adopted it through a misapprehension as to the possibility of the other provinces than Canada being able to engage in the fishery, it was thought best to later on resubmit the convention to the Senate and endeavor to secure its adoption without the amendment.

#### CATCH BY APPARATUS.

As for some years past, purse seines and traps take by far the greater part of the salmon utilized. From 1915 to 1919, both inclusive, the catch in purse seines exceeded that in traps. The drop in the run of fish, and the greatly increased cost of operating due to the war, together with the low selling value of the fish, made the industry unprofitable for the purse seiners, and many of them removed to California or Alaska with their vessels. As a result the catch in traps since 1919 has exceeded that in purse seines. During 1921 there were taken in traps 3,597,038 salmon, while purse seines took 3,182,415. In 1922 traps caught 1,498,230 salmon while purse seines took 875,839.

Fish wheels, set nets, gill nets, drag seines, bag nets and reef nets in 1921 took 655,391 salmon. An especially important point is that trollers reported taking 110,946 salmon. For some years now this latter method has been growing steadily in importance. In 1922 the above forms of apparatus took 548,217 salmon, of which 85,354 fish represented the reported catch of the trollers.

#### RESTORING OUR HUMPBACK SALMON RUN.

Owing partly to excessive fishing on both sides of the international boundary, partly to the blockade in Hells Gate Canyon in 1913, and to other causes, the catch of humpback salmon has been falling off for some years. The following table shows the catch in the State of Washington (all are taken in the Puget Sound region) from 1913 on, and the great differences between the catches of the even numbered years from that of the uneven numbered ones is explained by the peculiar fact that in the first named years the runs have been negligible in quantity for some unknown cause.

<i>Year.</i>	<i>No. of Humpbacks.</i>
1913 .....	15,952,175
1914 .....	83,229
1915 .....	7,411,096
1916 .....	76,136
1917 .....	13,381,556
1918 .....	88,392
1919 .....	4,673,345
1920 .....	19,716
1921 .....	4,412,712
1922 .....	32,315

The Department felt that this valuable food resource should not be allowed to dwindle away without a strong effort made to restore the runs, and this was one of the first matters taken up when we assumed office. The most important spawning area of the Puget Sound Humpback salmon is in the Fraser River, and as this is wholly in Canada nothing could be done here. There are, however, a few small streams in the state resorted to by the humpbacks and every effort was put forth here to gather eggs for hatching purposes.

To supplement this meager supply resort was had to the waters of Alaska. Two parties were sent there in 1922, one to Cordova in central Alaska, and the other to the vicinity of Wrangell in southeast Alaska. At the former place, some 20,000,000 eggs had been obtained but at the latter only the preliminary work had been done, when objections of local Alaskans led the U. S. Commissioner of Fisheries to forbid the further continuance of the work although he permitted the Department to take out of the Territory the eggs already gathered and being held in temporary troughs until ready for shipment. The eggs were brought to Puget Sound, hatched out at our hatcheries, and planted in tributaries of Puget Sound. These young are due to return to our waters during the summer of 1924 and strong hopes are entertained that the great number planted will have a very appreciable effect upon the coming runs.

#### **DAMS A MENACE TO OUR ANADROMOUS FISH.**

The damming of our larger streams, the ones most frequented by the anadromous fishes, is rapidly becoming a serious menace to the existence of the latter. In the early years many splash dams were constructed on the smaller streams to aid in logging operations, but as the timber was cut off, some of these were abandoned, in most instances to slowly rot away, the owners selfishly failing to clear the streams again. Some of these dams have been blown up by the Department and the streams opened once more to the fish, but many of them still remain there as an obstruction to the ascent of the salmon and other migrating fishes.

Of recent years, and particularly in the Columbia River basin, large irrigation projects have been launched and various dams have been built in order to store water for use during the growing season by diverting water through ditches onto the fields. So far most of these dams have ranged in height from 4 to 15 feet, and as the run of anadromous fish generally coincided with the time of high water, they have not proved an altogether insurmountable obstacle to their ascent, especially when an efficient fishway was provided.

The advent of hydro-electric projects, which apparently necessitate the building of exceptionally high dams, has, however, proved a decided menace to the runs of fish, as it is still problematical whether man can design a fishway that would aid the fish in surmounting them, and also get the young fish back down them on their way to the sea. Some fishway experts think that there is a chance for success in this endeavor by the use of the most advanced engineering methods, but the opportunity for a practical application has not presented itself in this state of recent years.

At the present time there are but few of our streams on which a dam is not already in place or on which there is not pending a proposition for one,

and it behooves us to take stock of what this will mean to the future welfare of our large fishing industry unless something is done to check them, or a sure and adequate way is found for getting the migrating adult fish over them, and the young fish back down them.

It is not our desire to block the development of any part of our state through unnecessary objections to the development of any power or irrigation project, that will perform this much to be desired feat, but we feel that the promoters of each one of these should be compelled to show the necessity for same and also demonstrate the feasibility of their plans for safeguarding the fish runs depending upon the safe use of such waters. The Department stands ready at all times to cooperate in every way possible in attaining such a desirable solution of the matter.

#### **POLLUTION OF OUR WATERS.**

It is only of recent years that the danger to our aquatic life of water pollution has been borne in upon our people. As the population has increased along our many beautiful water courses, on which gridiron all sections of our state, more and more sewage has been allowed to find its way into the streams as the easiest outlet for them, while the many industrial plants which now dot the banks have also contributed a not inconsiderable part of the sum of pollution. In the larger cities considerable quantities of crude oil, gasoline, etc., have found their way into the waters. While the sum total of these pollutions has not as yet affected to any material extent our fish and other aquatic life, the experience of the East, where the prevalence of such pollutions has proven a serious menace to fish and shell-fish life, warns us not to sit supine and let them grow into such a menace. In the present advanced condition of sanitary science there should be no difficulty of so handling this material as to make it innocuous, and thereby confer an incalculable boon upon our nature lovers.

#### **FISH-CULTURAL OPERATIONS.**

The total cost of hatchery operations during the biennium of 1919-20 was \$168,069.80 as compared with \$111,432.00 during the present biennium. That the Department has been economically administered during the present biennium is conclusively shown by the fact that the hatching cost per thousand of fry was 52c in 1921 and 44c in 1922 as compared with 49c in 1919 and 51c in 1920.

That the economies noted above have not adversely affected the hatching operations of the Department is very apparent by a glance at the tables of hatchery operations. During the present biennium the output of Chinook salmon fry, the most valuable handled, was 91,078,130 in number as compared with 46,081,915 in the previous biennium; the number of dog salmon output, the lowest grade handled, dropped, however, from 163,676,605 in the biennium 1919-20 to 10,419,400 in the present biennium; the output of humpback fry was 6,071,500 during the present biennium as compared with an output of 2,285,050 during the previous one; the output of silver salmon fry was 107,933,800 during the present biennium as compared with 97,482,325 during the previous one; the output of sockeye salmon fry was 10,000 in 1922, while none was put out in the other three years; the out-

put of steelhead fry amounted to 24,794,550 during the biennium of 1919-20 as compared with 14,315,480 during the present biennium.

The total output of salmon during the biennium of 1919-20 was 334,320,535 as compared with 229,828,310 during the present biennium, the excess, however, being more made up of the cheapest and lowest grade of salmon, while, as noted above, the operations during the present biennium showing a very large increase in the output of high grade salmon over that shown for the biennium of 1919-20.

#### **BIOLOGICAL WORK.**

Recognizing the need for scientific work in connection with the many pressing problems confronting the fisheries of this state, and the Department being without the services of anyone competent to undertake same, recourse was had to Professor John N. Cobb, who had been made, by the University of Washington, Director of the College of Fisheries, established there early in 1919. This is the only College of Fisheries in the world outside of Japan. Professor Cobb kindly consented to take charge of such biological work as he and his staff could find time to handle and during the summer of 1920 he made a preliminary reconnaissance of our waters, and beginning with the summer of 1921 the following work was taken up by different scientists under his direction, and prosecuted either fully or in part during the present biennium.

#### **BIOLOGICAL SURVEY OF PUGET SOUND RIVERS.**

In the summer of 1921 a biological survey of the Nooksack, Skagit, Stillaguamish and Snohomish rivers, in which work the following, in addition to Professor Cobb, participated: Dr. E. Victor Smith, Dr. George B. Rigg, and Messrs. Martin Norgore, Andrew W. Anderson, Melvin G. Anderson and Reginald Fiedler. The work was undertaken as part of a biological census of the aquatic resources of the state, and it is hoped in time to be able to extend it to cover the other water areas of the state. Much natural history material of value was gathered, together with copious data, and it is probable that various reports based in part on this material will be published in various scientific journals. This work when completed will prove of immense value in showing (1) the kinds of fishes and other organisms beneficial and prejudicial to the lives of our food fishes, including food animals, parasites and their relative abundance; (2) location of spawning places and their suitability for the obtaining of spawn for our hatcheries; (3) suitability of the waters for the fish already there and for others which may be introduced; (4) the most favorable places for planting hatchery fish; and (5) such other natural history as may be of value in our work.

#### **OYSTER INVESTIGATIONS.**

During the summer of 1921 Professor Trevor Kincaid, assisted by Mr. Harvey C. McMillin, both of the College of Fisheries, made an investigation of our oyster resources in Willapa Harbor, and it is hoped to soon be in position to publish his report as to the causes which have led to present unsatisfactory condition of these bivalves.



**STUDY OF TROLLED SALMON.**

In July, 1921, Mr. Walter H. Pugsley, a senior student in the College of Fisheries, was sent to Vancouver Island, British Columbia, to weigh and measure and gather scales for determining age, from the salmon being landed there by the trollers operating in the ocean and inside the mouth of the Straits of Juan de Fuca. Considerable valuable material was gathered for study purposes.

**OBSTRUCTIONS IN HELLS GATE CANYON.**

All are now familiar with the disaster which overtook the 1913 run of Puget Sound—Fraser River sockeye salmon. During this, one of the big years, the Canadian Northern Railway, while building through Hells Gate Canyon, on the Fraser River, dumped much of the blasted out rock into the river, which somewhat narrowed the already rather obstructed stream bed. Just as the fish appeared on their way to their spawning grounds in the upper reaches of the river, a rock slide occurred and formed an almost impassable barrier to their ascent. As soon as possible efforts were under way to repair the damage done by constructing crude fishways, lifting the fish over with dip nets, etc., but only a very small fraction got up to their accustomed spawning ground.

The next year energetic efforts were early under way by the government and much of the debris was cleaned out of the stream in the canyon. Of recent years, however, there have been rumors to the effect that there were still obstructions which impeded the free ascent of the sockeyes. In order to settle this matter Mr. Walter H. Pugsley, of the College of Fisheries, was sent there to investigate in August, 1922, and upon his return he submitted the following report:

"The territory covered in this report is the canyon region of the Fraser river between Yale, B. C. and North Bend, B. C. The river in this region, a distance of about twenty-seven miles, is narrowed down to a canyon or gorge. About eight miles from North Bend, Hells Gate or Cathmar, as it is sometimes called, the river is narrowed down to about fifty yards in width.

"The sockeye run at the time of this report was probably at its height, for the year. A considerable number of fish were observed migrating to the spawning grounds, yet on the whole the run is probably as small as it has ever been, and according to residents of the district, there is a considerable falling off in the number of fish migrating this year over last.

"In the lower canyon region, around Yale, a few spring salmon are being caught by the Indians for drying purposes. This is not being done very extensively, as the catching of the fish by dip nets is very tedious when the fish are as scarce as they have been this year. This fishing is of course legalized by the Canadian government.

"There are no obstructions in the river below Hells Gate on either side of the river that could in any way be considered as a serious obstruction to the fish in their upward migration.

"A serious obstacle does occur at Hells Gate. Here, as stated before, the river is narrowed down to a breadth of about fifty yards or less, through which the water flows very swiftly. At the entrance to Hells Gate there is a waterfall of perhaps four or five feet and it is this fall in combination

with the narrowing of the river that constitutes the real menace to the upward migration of the sockeye.

"On the west side of the river just below Hells Gate are several eddies in which the fish congregate and rest before they try to negotiate the Gate itself. The fish of course can be seen playing in these eddies at this time of year. Just above the Gate on the same side of the river can be seen several small eddies in which the fish can rest and thus make the ascent in several stages. Most of the fish trying to make ascent on this side of the river are successful. There are a few though, which I do not believe make it.

"The east side of the river is an entirely different matter. The Canadian Northern Railway in 1913 was blasting out a roadbed just above Hells Gate. Too much rock was dumped into the river and it all piled up in front of Hells Gate, thus making a dam and obstructing the passage of fish. The Canadian government the following winter had most of this excess rock removed, supposedly so that the fish could pass on up the river with little difficulty. As stated before, the fish have little difficulty in negotiating the west side, but on the east side the removal was not as successful. There is a very distinct fall on this side of the river, which makes it almost impassable for the fish and above the falls for a distance of at least one hundred and fifty yards, the water runs swift and straight, leaving no eddies for the fish to rest in if they did negotiate the falls.

"The fish on this side of the river, as on the other, congregate in eddies below the gate. Some attempt to make it over the falls, but most of them do not succeed, and are thrown back or to the other side of the river. A few of the stronger ones do make it up the river, overcoming even these difficulties.

"There are no obstructions beyond Hells Gate to hinder the upward migration of the fish.

"It is the general consensus of opinion of people that live in this section that the river has never been cleaned out properly after the slide, that the upward migration of the fish is considerably hampered yet by this slide. The claim is also made that the humpback salmon as a whole cannot migrate beyond Hells Gate and that they must spawn in the nearby streams."

#### **LIFE HISTORY OF RAZOR CLAM.**

As considerable dissatisfaction exists on the part of the razor clam diggers of Grays Harbor with the present closed season it was decided, as a result of a conference held early in 1923 in Olympia between myself, representing the canners, and Professor Cobb, of the College of Fisheries, to inaugurate a scientific study of the life history of the razor clam, and late in the spring of the same year Mr. Harvey C. McMillin, a graduate of the College of Fisheries, who had assisted Professor Kincaid in his shellfish investigations in 1920, was detailed to the work, and at the time the biennium closed was starting the work.



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# STATISTICS

FOR

FISCAL YEAR 1921

April 1, 1921, to March 31, 1922.

## FISHERIES DEPARTMENT

STATE OF WASHINGTON

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Appropriations, Receipts and Disbursements; Output of Salmon  
Hatcheries and Costs; Licenses Issued; Take and  
Value of Food Fishes; and Other Information  
Regarding the Food Fishing Industry.

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APPROPRIATION AND EXPENDITURES OF FISHERIES FUND.

Fiscal Year 1921.

FUND		Appropriation for Two Years	Expended Fiscal Year 1921	Balance April 1, 1922
Salary of Director, Supervisor, inspectors and employes; traveling expenses of Director, Supervisor, inspectors and employes; rent and incidentals; construction, repair and maintenance of salmon hatcheries; construction of new hatcheries; patrol service; improvements, replacements; destruction of seals; printing, and for other necessary expenses of the office of the Supervisor of Fisheries .....		\$235,285 00	\$139,872 45	\$145,412 55

ITEMIZATION OF EXPENDITURES OF FISHERIES FUND.

	Salaries	Labor	Mileage	Subsistence	General Expense	Maintenance	Improvements	Total Cost of Operation	Egg Output	Cost per Thousand
Office Expense .....	\$4,200 00	\$739 82	\$3,754 29	\$4,198 67	\$30,416 86	\$87 15	.....	\$43,396 79	.....	.....
Repair and Maintenance of Hatcheries ..	20,436 44	23,067 76	1,267 88	1,056 17	9,064 31	5,188 66	\$1,031 63	61,102 84	116,492 460	\$ .52
Patrol Service .....	1,596 02	2,624 80	100 81	724 71	7,519 02	20,113 22	60 00	33,006 58	.....	.....
Sundry Expense .....	185 00	219 00	29 45	10 30	213 24	.....	.....	656 99	.....	.....
Biological Expense .....	.....	.....	.....	.....	1,707 25	.....	.....	1,707 25	.....	.....
Totals.....	\$26,387 46	\$26,971 38	\$5,152 43	\$5,989 86	\$48,800 68	\$25,389 02	\$1,091 63	\$139,872 45	.....	.....

**APPROPRIATION AND EXPENDITURES OF STATE OYSTER RESERVE FUND.**  
**Fiscal Year 1921.**

FUND	Appropriation for Two Years	Expended Fiscal Year 1921	Balance April 1, 1922
For the improvement and protection of the state oyster reserves .....	\$32,300 00	\$16,455 54	\$15,844 46

**ITEMIZATION OF EXPENDITURES OF STATE OYSTER RESERVE FUND.**

Patrol Service .....	\$2,196 30
Improvement of Oyster Beds.....	14,259 24
<b>Total.....</b>	<b>\$16,455 54</b>

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RECEIPTS OF THE FISHERIES DEPARTMENT.  
Fiscal Year 1921.

CREDITED TO THE FISHERIES FUND	Puget Sound District	Columbia River District	Grays Harbor District	Willapa Harbor District	Entire State	Totals
<b>LIENSES—</b>						
5,062 Fishing .....	\$25,295 73	\$14,295 08	\$2,828 30	\$3,985 35		\$46,384 46
103 Buyers at \$1.00 .....	87 00	11 00	3 00	2 00		103 00
7 Scow buyers at \$30.00 .....		350 00				350 00
708 Retail dealer .....	440 00	199 00	41 00	23 00		708 00
106 Wholesale dealer .....	680 00	110 00	110 00	150 00		1,060 00
27 Halibut dealer .....	125 00	10 00				135 00
6 Codfish, canning and curing .....	75 00					75 00
4 By-product manufacturing .....	30 00	25 00				55 00
12 Private hatchery .....	150 00	150 00				300 00
3 Private hatchery product dealer .....	5 00	2 50				7 50
8 Hotel serving private hatchery product .....	5 00	3 00				8 00
21 Permit to collect birds .....			90 00	5 00	\$21 00	121 00
121 1920 Licenses .....	26 00		375 00	85 00		591 00
63 Cannery licenses .....	650 00	215 00				865 00
6,235 Total .....						\$50,587 06
<b>TAXES—</b>						
Fish caught .....	94,789 33	20,062 36	6,215 09	2,917 70		124,004 48
<b>SALES—</b>						
Salmon eggs .....	170 00					170 00
Spawmed fish .....	51 27	70 27				121 54
Confiscated gear .....		17 00				17 00
Confiscated fish .....	26 26	271 99				298 25
<b>MISCELLANEOUS—</b>						
Transfers .....	48 00	41 00	2 00	6 00		97 00
Receipts from other sources .....	2 25	35 38				37 63
Collected by State Supervisor of Fisheries .....	\$122,645 84	\$35,878 58	\$9,064 30	\$7,124 05	\$21 00	\$175,833 96
<b>COLLECTIONS REPORTED BY TREASURER—</b>						
Fines .....						47 04
Sale of Public Property .....						15 00
Miscellaneous .....						9 37
Total credited to Fisheries Fund .....						\$175,406 27

\$570.42 received and refunded not shown above.

RECEIPTS OF THE FISHERIES DEPARTMENT—Concluded.

Fiscal Year 1921.

	Puget Sound District	Columbia River District	Grays Harbor District	Willapa Harbor District	Entire State	Totals
<b>DEDUCTED TO THE STATE OYSTER RESERVE FUND—</b> 13 Licenses to take seed oysters..... Sale of seed oysters..... Sale of merchantable oysters..... Miscellaneous ..... Collected by Supervisor of Fisheries..... Interest earnings on Oyster Reserve Fund reported by State Treasurer..... Secretary Oyster Comm. P. L..... Commissioner of Public Lands..... Total credited to State Oyster Reserve Fund..... Total Receipts .....	\$35 00 4,820 50 491 16 408 32 \$5,782 98 148 99					\$35 00 4,820 50 491 16 408 32 \$5,782 98 148 99 187 30 1,519 22 \$7,648 49 \$183,053 76

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**LICENSES ISSUED.**  
**Fiscal Year 1921.**

	PUGET SOUND		COLUMBIA RIVER		GRAYS HARBOR		WILLAPA HARBOR		ALL DISTRICTS COMBINED	
	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected
<b>FISHING LICENSES -</b>										
Pound net .....\$100.00	2	\$200.00							2	\$200.00
First class pound net.....50.00	222	11,100.00							222	11,100.00
Second class pound net.....15.00			92	\$2,900.00					92	2,900.00
Pound net.....15.00			132	1,980.00					132	1,980.00
Stationary fish wheel.....25.00			16	500.00	47	\$705.00	55	\$825.00	102	1,825.00
Sec'y fish wheel.....37.5	319	1,192.50	9	225.00					16	500.00
Gill net.....\$7.50 and 1c ea. add. ft.	346	2,872.50	150	562.50	249	1,875.00	51	228.75	771	2,881.25
Drag seine.....3c per ft.	116	6,822.00	523	5,815.88	40	480.00	43	356.10	672	9,534.58
Purse seine.....27.50	252	6,920.00	37	786.10	2	27.90			155	1,668.96
Keef net.....5.00	13	65.00	56	1,540.00			78	2,145.00	386	10,615.00
Hook and line.....1.00	415	850.00	176	352.00	36	72.00	6	12.00	13	65.00
Rag net.....1.00	4	4.00	98	98.00					635	1,268.00
Smet drag bag net, \$1.00 and 3c ea. add. ft.....	51	316.55							102	102.00
Set line.....1.00	73	73.00	35	35.00					51	316.55
Brush weir.....25.00	3	75.00							106	106.00
Beam trawl.....10.00	20	200.00							3	75.00
Clams and mussels.....1.00	115	115.00	23	23.00	608	608.00	285	285.00	20	200.00
Clam bait.....1.00	2	2.00			1	1.00			1,031	1,031.00
Crabs.....1.00	141	141.00	2	2.00	11	11.00	65	65.00	13	13.00
Gill net extension.....1c per ft.		307.00		2.60		9.00			219	219.00
Drag seine extension.....3c per ft.										
Smet drag bag net extension.....3c per ft.										
Totals.....	2,063	\$25,285.73	1,349	\$14,285.08	1,007	\$2,828.30	603	\$3,935.35	5,062	\$46,324.46

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LICENSES ISSUED—Concluded.  
Fiscal Year 1921.

	PUGET SOUND		COLUMBIA RIVER		GRAYS HARBOR		WILLAPA HARBOR		ALL DISTRICTS COMBINED	
	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected
<b>DEALERS AND MISCELLANEOUS LICENSES—</b>										
Buyer's .....	87	\$87 00	11	\$11 00	3	\$3 00	2	\$2 00	103	\$108 00
Scow buyer's .....	440	440 00	7	350 00	.....	.....	.....	.....	7	350 00
Retail dealer .....	68	680 00	199	199 00	41	41 00	23	23 00	708	708 00
Wholesale dealer .....	.....	.....	11	110 00	11	110 00	15	150 00	105	1,050 00
Halfbut wholesale dealer or broker .....	25	125 00	2	10 00	.....	.....	.....	.....	27	135 00
Codfish canning and curing .....	6	30 00	.....	.....	.....	.....	.....	.....	6	30 00
By-product manufacturing .....	3	75 00	1	25 00	.....	.....	.....	.....	4	100 00
Private hatchery .....	6	150 00	6	150 00	.....	.....	.....	.....	4	100 00
Private hatchery product dealer .....	2	5 00	1	2 50	.....	.....	.....	.....	3	7 50
Hotel serving private hatchery product .....	5	5 00	3	3 00	.....	.....	.....	.....	8	8 00
Permit to collect birds .....	21	21 00	.....	.....	.....	.....	.....	.....	21	21 00
Totals .....	663	\$1,618 00	241	\$860 50	55	\$154 00	40	\$175 00	999	\$2,897 50
<b>MISCELLANEOUS RECEIPTS—</b>										
1920 licenses .....	26	\$26 00	.....	.....	90	\$90 00	5	\$5 00	121	\$121 00
<b>CANNERY LICENSES</b> .....	28	\$60 00	9	\$215 00	21	\$375 00	5	\$85 00	63	\$1,325 00
<b>REGAPULATION—</b>										
Fishing Licenses .....	2,033	\$25,285 73	1,310	\$14,285 06	1,007	\$2,925 30	603	\$3,935 35	5,052	\$48,334 46
Dealers and Miscellaneous Licenses .....	663	1,618 00	241	860 50	55	184 00	40	175 00	999	2,897 50
1920 Licenses .....	28	26 00	9	215 00	90	90 00	5	5 00	121	121 00
Cannery Licenses .....	28	650 00	9	215 00	21	375 00	5	85 00	63	1,325 00
<b>Grand Totals</b> .....	2,810	\$27,579 73	1,599	\$15,360 56	1,173	\$3,447 30	653	\$4,200 35	6,235	\$60,587 86

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**\*CATCH OF SALMON AND VALUE.  
Fiscal Year 1921.**

DISTRICT AND GEAR WITH WHICH TAKEN	Number of Chinook Salmon	Number of Dog Salmon	Number of Humpback Salmon	Number of Silver Salmon	Number of Sockeye Salmon	Number of Steelhead Salmon	Totals
<b>PUGET SOUND DISTRICT—</b>							
Found nets	294,069	32,414	1,967,800	203,409	859,596	5,080	3,452,568
Set nets	4,883	3,252	.....	.....	.....	.....	8,085
Gill nets	26,910	20,823	87,271	101,089	48,404	50	284,653
Drag seines	415	471	17,131	1,556	3,195	.....	22,768
Purse seines	0,633	211,198	2,303,068	334,694	221,152	703	3,070,784
Reef nets	56	334	19,269	3,749	2,020	.....	26,034
Hook and lines	3,616	2,201	459	26,062	.....	3	32,911
Bag nets	.....	.....	6,569	.....	500	.....	7,261
Totals	288,682	270,193	4,401,510	702,221	1,135,473	5,914	6,844,269
Value	\$645,565 80	\$47,283 77	\$440,151 00	\$206,777 35	\$981,283 80	\$7,006 80	\$2,088,150 12
<b>COLUMBIA RIVER DISTRICT—</b>							
First class pound nets	36,910	1,200	21	32,732	1,316	21,409	93,588
Second class pound nets	11,820	500	1	15,730	1,753	11,407	41,300
Stationary fish wheels	7,306	.....	.....	.....	17,993	2,648	26,915
Snow fish wheels	3,016	.....	.....	.....	7,227	645	10,948
Set nets	1,837	88	4	1,217	1,646	2,082	7,504
Gill nets	102,113	206	2,922	6,638	6,440	18,573	136,901
Drag seines	7,807	5	300	2,736	112	5,949	16,660
Purse seines	13,683	.....	835	178	700	.....	17,788
Hook and lines	13,503	6	.....	50,343	8	.....	73,665
Totals	200,014	2,005	4,083	118,643	26,383	63,900	425,088
Value	\$408,034 86	\$314 25	\$408 30	\$41,523 05	\$10,994 15	\$677,340 00	\$1,237,610 61
<b>GRAYS HARBOR DISTRICT—</b>							
Found nets	12,967	5,099	.....	32,377	.....	136	50,579
Set nets	4,333	3,748	70	13,978	194	2,198	25,160
Gill nets	18,031	9,821	296	30,610	1,372	12	60,147
Hook and lines	1,774	.....	.....	2,704	.....	.....	4,538
Totals	37,725	18,668	374	79,735	1,560	2,346	140,414
Value	\$104,121 00	\$2,800 20	\$37 40	\$27,067 25	\$801 30	\$2,111 40	\$137,838 55

\* Value based on average price paid fishermen.

\*CATCH OF SALMON AND VALUE—Concluded.  
Fiscal Year 1921.

DISTRICT AND GEAR WITH WHICH TAKEN	Number of Chinook Salmon	Number of Dog Salmon	Number of Humpback Salmon	Number of Silver Salmon	Number of Sockeye Salmon	Number of Steelhead Salmon	Totals
<b>WILLAPA HARBOR DISTRICT—</b>							
Pound nets .....	8,969	8,878	.....	11,144	.....	17	29,008
Set nets .....	3,299	3,110	434	3,026	95	274	10,238
Gill nets .....	5,881	1,875	7	3,716	2	7	11,488
Purse seines .....	73,718	.....	6,298	1,397	868	2,502	84,843
Hook and lines.....	141	.....	.....	1,321	.....	.....	462
Totals.....	91,958	13,863	6,739	19,604	965	2,860	135,089
Value.....	\$23,804 06	\$2,079 45	\$673 90	\$6,861 40	\$530 75	\$2,574 00	\$36,569 58
<b>ALL DISTRICTS COMBINED—</b>							
Pound nets .....	294,795	48,091	1,967,921	356,451	862,665	38,115	3,567,038
Fish wheels .....	10,222	.....	.....	.....	24,288	8,313	37,823
Set nets .....	14,922	10,198	517	18,251	1,985	5,154	50,977
Gill nets .....	152,914	32,315	90,495	142,939	56,218	18,648	498,559
Drag seines .....	8,312	476	17,431	4,292	3,307	5,949	39,767
Bag nets .....	.....	.....	6,500	252	500	.....	7,252
Purse seines .....	96,424	211,108	2,310,141	336,179	223,810	3,663	3,182,415
Reef nets .....	56	334	19,269	3,749	2,625	.....	26,034
Hook and lines.....	19,064	2,207	429	82,090	8	178	110,946
Totals.....	598,679	304,819	4,412,712	980,203	1,174,357	75,020	7,545,790
Value.....	\$1,500,516 74	\$52,477 67	\$441,271 20	\$343,071 05	\$702,670 00	\$689,122 20	\$8,730,128 86

\* Value based on average price paid fishermen.

**\*CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE.  
Fiscal Year 1921.**

DISTRICT AND GEAR WITH WHICH TAKEN	Pounds of Carp	Pounds of Clams and Mussels	Number of Crabs	Pounds of Clam Bait	Pounds of Cod	Pounds of Devil Fish	Pounds of Dog Fish	Pounds of Dolly Varden Trout	Pounds of Flounders	Pounds of Halibut	Pounds of Herring	Pounds of Mackerel	Total Value
<b>PUGET SOUND DISTRICT—</b>													
Pound nets .....						55		388	7,002		5,249		
Set nets .....				6,903	4,807	1,609							
Gill nets .....				2,776	9,111	2,965		118	5,738				
Drag seines .....				50	50			157			28,674		
Purse seines .....	191				17,472	29,248	25,000	1,214	314	10,378			
Hook and lines .....					15,789	8,888	5,550			7,409			
Set lines .....							62,200						
Brush seines .....						1,005					102,805		
Small drag bag nets .....					7,882				470				
Beam trawls .....					701	141			34,108			1,960	
Clams .....		385,856	324,690	6,020									
Crabs .....													
Totals .....	191	385,856	324,690	6,020	65,441	39,551	92,750	1,720	47,879	17,787	103,138	1,960	
Value .....	\$7 64	\$9,646 40	\$34,093 40	\$90 30	\$2,872 20	\$1,977 55	\$185 50	\$240 80	\$478 79	\$2,134 44	\$1,631 38	\$156 80	\$53,024 20

\* Value based on average price paid fishermen.

\*CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE—Continued.

Fiscal Year 1921.

DISTRICT AND GEAR WITH WHICH TAKEN	Pounds of Perch	Pounds of Red Snapper	Pounds of Sand Dabs	Pounds of Sea Bass	Pounds of Shad	Pounds of Skates	Pounds of Shrimp	Pounds of Smelt	Pounds of Sole	Number of Sturgeon	Pounds of All Other Food Fish	Total Value
<b>PUGET SOUND DISTRICT—</b>												
Continued.												
Sound nets	530			6,629	18				132	9	5,352	
Set nets	3,047							2,467	1,163		300	
Gill nets	30,685					136		177,259	12,141			
Drag seines									133	2		
Purse seines									47		567	
Hook and lines	949	40	504			35					220	
Set lines		122	280	261	2,007				157		140	
Smelt drag bag nets	12,311			80			10,000	111,196	31,225		127	
Dip bag nets								3,060				
Beam trawls			6				47,958		24,660			
Totals	47,502	162	789	6,970	18	2,844	57,958	294,062	69,658	11	7,296	
Value	\$2,375 10	\$3 24	\$70 00	\$348 50	\$1 08	\$28 44	\$11,501 60	\$26,464 68	\$2,069 74	\$30 80	\$145 72	\$43,158 80
Grand total value												\$96,183 00

\* Value based on average price paid fishermen.

\*CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE—Continued.  
Fiscal Year 1921.

DISTRICT AND GEAR WITH WHICH TAKEN	Pounds of Carp	Pounds of Clams and Mussels	Number of Crabs	Pounds of Clam Bait	Pounds of Cod Fish	Pounds of Dog Fish	Pounds of Perch	Pounds of Shad	Pounds of Skate	Pounds of Smelt	Pounds of Sole	Pounds of Sturgeon	Pounds of All Other Food Fish	Total Value
<b>COLUMBIA RIVER</b>														
DISTRICT—														
First class pound nets.....								5,770				206	85	
Second class pound nets.....								4,553				207		
Stationary fish wheels.....							16,941					123		
Stow fish wheels.....							700					93		
Set nets.....								504			2	307		
Gill nets.....	20							26,492	394	6,625		2,736	57	
Drag seines.....	297,850							43,942				140	200	
Purse seines.....												38		
Trawl and lines.....					94							7		
Set lines.....										1,149,555			19	
Dip bag nets.....		5,034												
Clam.....		5,034			94			98,992	394	1,156,180	2	3,997	471	
Totals.....	297,870	5,034			94			98,992	394	1,156,180	2	3,997	471	
Value.....	\$11,915 16	\$125 85			\$2 38			\$5,939 52	\$3 94	\$23,123 60	\$ .06	\$19,185 60	\$0 42	\$70,306 55
<b>GRAYS HARBOR DISTRICT—</b>														
Pound nets.....														
Set nets.....														
Gill nets.....														
Drag seines.....														
Clams.....		661,883		3,100		1,082								
Crabs.....			64,817											
Totals.....		661,883	64,817	3,100		1,082								
Value.....		\$23,105 01	\$6,875 79	\$108 50		\$54 10						\$846 00		\$30,680 30
<b>WILLAPA HARBOR</b>														
DISTRICT—														
Gill nets.....						141								
Purse seines.....													4	
Clams.....		780,146		38,395										
Crabs.....			262,782											
Totals.....		780,146	262,782	38,395		141							4	
Value.....		\$7,801 40	\$27,592 11	\$1,343 83		\$ 28							\$ .06	\$29,667 70

\* Value based on average price paid fishermen.

\*CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE.—Continued.

Fiscal Year 1921.

DISTRICT, AND GEAR WITH WHICH TAKEN	Pounds of Carp	Pounds of Clams and Mussels	Number of Crabs	Pounds of Clam Bait	Pounds of Cod	Pounds of Doryl Fish	Pounds of Dog Fish	Pounds of Dolly Warden Trout	Pounds of Found-ers	Pounds of Halibut	Pounds of Herring	Pounds of Mackerel	Total Value
<b>ALL DISTRICTS COMBINED—</b>													
Pound nets.....					6,903	56		388	7,002		5,248		
Set nets.....					4,837	1,609							
Gill nets.....	29	2,776			9,111	2,960	141		5,738		28,674		
Drag seines.....	297,850				50	29,238		1,214	314	10,378			
Purse seines.....	191				17,566	3,888	25,000			7,409			
Hook and lines.....					15,788	1,646	5,550		470				
Set lines.....					7,882								
Smelt drag bag nets.....							62,200					1,960	
Brush welts.....													
Beam trawls.....					701	141			34,198				
Crabs.....		1,832,919	652,298	48,115									
Totals.....	236,070	1,832,919	652,298	48,115	65,535	39,551	92,891	1,720	47,879	17,787	163,137	1,960	
Value.....	\$11,922 80	\$40,739 62	\$98,491 30	\$1,551 63	\$2,375 68	\$1,977 56	\$185 78	\$240 80	\$478 79	\$2,134 44	\$1,631 38	\$156 80	\$131,885 47

\* Value based on average price paid fishermen.



**\*CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE—Concluded.**  
**Fiscal Year 1921.**

DISTRICT AND GEAR WITH WHICH TAKEN	Pounds of Perch	Pounds of Red Snapper	Pounds of Sand Dabs	Pounds of Sea Bass	Pounds of Shad	Pounds of Skates	Pounds of Shrimp	Pounds of Smelt	Pounds of Sole	Number of Sturgeon	Pounds of All Other Food Fish	Total Value
<b>ALL DISTRICTS COMBINED—Concluded</b>												
Round nets.....	.....	.....	.....	.....	10,341	.....	.....	.....	132	699	6,017	.....
8/8th wheels.....	.....	.....	.....	.....	17,731	.....	.....	.....	.....	216	.....	.....
Set nets.....	530	.....	.....	6,629	17,594	.....	.....	.....	.....	340	300	.....
Gill nets.....	3,047	.....	.....	.....	26,492	394	.....	9,092	1,163	3,246	91	.....
Drag seines.....	31,747	.....	.....	.....	43,942	126	.....	177,299	12,141	1,769	909	.....
Purse seines.....	.....	.....	.....	.....	.....	.....	.....	.....	182	372	567	.....
Hook and lines.....	949	40	504	.....	.....	35	.....	.....	.....	7	250	.....
Set lines.....	.....	122	289	261	.....	2,607	.....	.....	157	.....	239	.....
Dip bag nets.....	.....	.....	.....	80	.....	.....	10,000	1,152,645	.....	.....	.....	.....
Smelt drag bag nets.....	12,311	.....	.....	.....	.....	.....	47,968	111,196	31,225	.....	127	.....
Beam trawls.....	.....	.....	6	.....	.....	76	.....	.....	24,660	.....	.....	.....
Totals.....	48,584	162	799	6,970	99,010	3,218	57,968	1,450,232	60,660	5,040	7,761	.....
Value.....	\$2,429 20	\$3 24	\$79 90	\$348 50	\$5,940 60	\$32 38	\$11,501 00	\$40,868 28	\$2,069 80	\$22,312 40	\$155 22	\$84,571 12
(Grand Total Value.....)												\$226,457 59

\* Value based on average price paid fishermen.

**FOOD AND SHELL FISH CANNED.**  
**Fiscal Year 1921.**

DISTRICTS	Number of 48-Pound Cases	Value
<b>PUGET SOUND DISTRICT—</b>		
Chinook salmon.....	25,662	\$205,376 28
Dog or Chum salmon.....	27,315	98,486 10
Humpback salmon.....	375,900	1,394,494 20
Silver salmon.....	66,303	375,927 56
Sockeye salmon.....	95,667	1,599,529 19
Clams and mussels.....	4,810	50,894 96
Crabs.....	40	960 00
Other food and shell fish.....	11,243	59,066 45
Totals.....	605,940	\$3,784,723 72
<b>COLUMBIA RIVER DISTRICT—</b>		
Chinook salmon.....	104,349	\$1,419,640 89
Dog or Chum salmon.....	641	1,762 10
Silver salmon.....	8,454	58,901 77
Sockeye salmon.....	2,674	39,727 09
Steelhead salmon.....	8,955	97,667 70
Shad.....	455	2,368 42
Other food and shell fish.....	6	112 32
Totals.....	125,534	\$1,620,180 26
<b>GRAYS HARBOR DISTRICT—</b>		
Chinook salmon.....	1,308	\$13,156 00
Dog salmon.....	2,746	9,269 63
Silver salmon.....	2,834	13,078 98
Clams.....	59,334	356,219 67
Clam nectar.....	416	2,617 00
Other food and shell fish.....	6,300	50,400 00
Totals.....	72,938	\$444,741 28
<b>WILLAPA HARBOR DISTRICT—</b>		
Chinook salmon.....	623	\$4,672 50
Dog salmon.....	2,719	9,788 40
Humpback salmon.....	141	586 80
Silver salmon.....	1,683	6,732 00
Clams.....	4,919	27,020 70
Totals.....	10,065	\$48,749 40
<b>ALL DISTRICTS COMBINED—</b>		
Chinook salmon.....	131,942	\$1,642,845 65
Dog or Chum salmon.....	33,421	119,305 23
Humpback salmon.....	376,041	1,394,495 61
Silver salmon.....	78,274	454,640 31
Sockeye salmon.....	98,341	1,639,256 25
Steelhead salmon.....	8,955	97,667 70
Clams and mussels.....	69,063	434,135 33
Clam nectar.....	416	2,617 00
Crabs.....	40	960 00
Shad.....	455	2,368 42
Other food and shell fish.....	17,549	109,568 77
Totals.....	814,497	\$5,866,860 27

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**FOOD AND SHELL FISH, FRESH AND PRESERVED (OTHER THAN CANNED), AND VALUE.**  
**Fiscal Year 1921.**

	PUGET SOUND DISTRICT		COLUMBIA RIVER DISTRICT		GRAYS HARBOR DISTRICT		WILLAPA HARBOR DISTRICT		ALL DISTRICTS COMBINED	
	Number Pounds	Value	Number Pounds	Value	Number Pounds	Value	Number Pounds	Value	Number Pounds	Value
<b>FRESH—</b>										
Chinook salmon.....	2,067,418	\$234,446 00	607,282	\$60,706 50	542,826	\$41,504 32	255,760	\$19,571 20	2,462,796	\$355,227 68
Dog salmon.....	882,450	14,567 87	6,705	111 75	124,512	1,556 40	.....	.....	983,667	16,286 02
Humpback salmon.....	519,817	11,551 50	1,835	48 40	.....	.....	.....	.....	521,753	11,609 90
Silver salmon.....	1,393,848	58,222 85	233,660	8,178 10	507,800	17,775 10	.....	.....	2,045,828	84,170 05
Sockeye salmon.....	61,804	5,306 20	5,150	595 50	3,774	345 65	.....	.....	70,818	6,217 65
Steelhead salmon.....	182,162	17,625 00	129,250	13,700 50	24,780	2,250 20	.....	.....	286,222	33,556 30
Carp.....	1,500	60 00	.....	.....	.....	.....	2,076	119 04	4,470	179 04
Clams and mussels.....	354,254	8,856 35	1,883	65 90	434,735	4,347 35	.....	.....	790,572	13,209 60
Crabs.....	500,100	31,500 98	107,705	6,701 00	644,940	40,681 01	.....	.....	1,252,826	78,962 08
Cod.....	67,441	2,427 88	81	2 92	.....	.....	.....	.....	67,522	2,430 80
Devil fish.....	35,592	1,775 10	.....	.....	.....	.....	.....	.....	35,592	1,775 10
Dog fish.....	19,108	38 22	.....	.....	.....	.....	.....	.....	19,108	38 22
Dolly Varden trout.....	234	32 70	.....	.....	.....	.....	.....	.....	234	32 70
Flounders.....	23,704	257 04	.....	.....	.....	.....	.....	.....	23,704	257 04
Halibut.....	26,847	3,221 04	.....	.....	.....	.....	.....	.....	26,847	3,221 04
Herring.....	46,874	468 74	.....	.....	.....	.....	.....	.....	46,874	468 74
Perch.....	53,054	2,607 25	.....	.....	296	14 80	.....	.....	54,250	2,712 05
Red Snapper.....	3,770	74 00	.....	.....	.....	.....	.....	.....	3,770	74 00
Sand Dabs.....	1,417	141 70	.....	.....	.....	.....	.....	.....	1,417	141 70
Shad.....	.....	.....	21,295	1,272 30	.....	.....	.....	.....	21,295	1,272 30
Sea bass.....	4,822	241 10	.....	.....	.....	.....	.....	.....	4,822	241 10
Skates.....	5 18	.....	.....	.....	.....	.....	.....	.....	5 18	.....
Shrimp.....	37,473	7,404 00	.....	.....	.....	.....	.....	.....	37,473	7,404 00
Smelt.....	203,823	23,744 07	479,650	9,593 00	90	40	.....	.....	743,493	33,337 47
Sole.....	94,826	2,844 78	.....	.....	.....	.....	.....	.....	94,826	2,844 78
Sturgeon.....	13,216	132 16	62,800	7,539 00	2,430	243 00	.....	.....	78,446	7,911 16
All other food fish.....	4,382	87 72	45	90	.....	.....	.....	.....	4,431	88 62
Totals.....	6,461,428	\$417,810 00	1,547,093	\$110,714 01	1,315,757	\$70,530 08	1,338,411	\$64,668 60	10,063,280	\$683,722 78
<b>PRESERVED—</b>										
Frozen.....	7,170,947	\$623,040 90	465,200	\$64,848 00	.....	.....	.....	.....	7,636,147	\$687,888 90
Kippered.....	1,551,818	100,807 70	.....	.....	.....	.....	.....	.....	1,551,818	100,807 70
Mild cured.....	2,578,425	579,671 10	407,435	124,651 50	.....	.....	.....	.....	3,075,870	708,729 60
Salted.....	88,922	7,075 24	.....	.....	.....	.....	.....	.....	88,922	7,075 24
Smoked.....	168,478	25,616 36	.....	.....	.....	.....	.....	.....	168,478	25,616 36
Totals.....	11,584,110	\$1,427,201 30	962,635	\$188,809 50	.....	.....	.....	.....	12,546,745	\$1,616,100 80
<b>GRAND TOTALS.....</b>	<b>18,045,538</b>	<b>\$1,845,011 48</b>	<b>2,510,328</b>	<b>\$299,613 51</b>	<b>1,315,757</b>	<b>\$70,530 08</b>	<b>1,338,411</b>	<b>\$64,668 60</b>	<b>28,210,064</b>	<b>\$2,240,822 67</b>

**FISH BY-PRODUCTS.**

**Fiscal Year 1921.**

OUTPUT	Quantity	Value
Oil .....	170,008 gal.	\$37,481 40
Fish meal .....	1,354 tons	84,139 20
Clam shells (Ground).....	189 tons	3,722 64
<b>Total value.....</b>		<b>\$125,343 24</b>

**APPROXIMATE AVERAGE PRICE—**

Oil .....	\$00.226 per gal.
Fish meal .....	62 14 per ton
Clam shells (Ground).....	19 70 per ton

**HALIBUT HANDLED BY DEALERS.**

**Fiscal Year 1921.**

Fresh .....	12,008,649 pounds, valued at \$1,420,331 54
Approximate average price.....	\$00.118 per pound
Halibut is taken mostly in Bering Sea and Alaskan waters and brought to Puget Sound to be marketed.	

**CODFISH HANDLED BY DEALERS.**

**Fiscal Year 1921.**

Fresh or frozen.....	136,000 pounds, valued at \$3,660 00
Cured .....	944,555 pounds, valued at 47,695 00
<b>Total .....</b>	<b>1,080,555 pounds, valued at \$54,355 00</b>

**APPROXIMATE AVERAGE PRICE—**

Fresh or frozen.....	\$00.048 per pound
Cured .....	.05 per pound

**IMPROVEMENTS ON STATE OYSTER RESERVE.**

**Fiscal Year 1921.**

5 Acres, Clifton Oyster Reserve, Mason County, graded and diked with concrete.  
 3½ Acres, North Bay Reserve, Mason County, graded and diked with concrete.

Number Licenses issued to take oysters from State Reserves, 13.  
 Fiscal Year 1921

## OYSTERS SOLD FROM STATE RESERVES.

Fiscal Year 1921.

DISTRICT AND RESERVE	County	NUMBER OF SACKS		
		Seed	Merchant-able	Totals
<b>PUGET SOUND DISTRICT—</b>				
Clifton Reserve.....	Mason		25	25
North Bay Reserve.....	Mason	634		634
Oakland Bay Reserve.....	Mason	2,242.5		2,242.5
Oyster Bay Reserve.....	Mason	674		674
<b>Totals.....</b>		<b>3,550.5</b>	<b>25</b>	<b>3,575.5</b>

## OYSTER INDUSTRY.

Fiscal Year 1921.

(Compiled from reports received from 19 companies or individuals in Puget Sound District, and 4 in Willapa Harbor District.)

	OYSTERS MARKETED		
	No. Sacks		Value
<b>PUGET SOUND DISTRICT—</b>			
Native .....	16,013		\$162,109 00
Eastern .....	1,707		50,870 00
<b>Totals.....</b>		<b>17,720</b>	<b>\$212,979 00</b>
<b>WILLAPA HARBOR DISTRICT—</b>			
Native .....	283		\$1,834 00
Eastern .....	2,640		27,381 30
<b>Totals.....</b>		<b>2,923</b>	<b>\$29,217 30</b>
<b>BOTH DISTRICTS COMBINED—</b>			
Native .....	16,296		\$163,943 00
Eastern .....	4,347		78,253 30
<b>Totals.....</b>		<b>20,643</b>	<b>\$242,196 30</b>

## AVERAGE VALUE OF OYSTERS PER SACK.

	Puget Sound District	Willapa Harbor District
Native .....	\$10 12	\$6 48
Eastern .....	29 80	10 37

## OYSTER LANDS.

DISTRICT	NUMBER OF ACRES				
	Owned	Leased	Native Producing	Eastern Producing	Total Producing
Puget Sound.....	782	13	411½	25	436½
Willapa Harbor.....	3,239	187	870	900	1,770
<b>Totals.....</b>	<b>4,021</b>	<b>200</b>	<b>1,281½</b>	<b>925</b>	<b>2,206½</b>

**\*VALUE OF FISHERIES PRODUCT.**  
**Fiscal Year 1921.**

PRODUCT	Value
Food and shell fish canned.....	\$5,897,880 27
Food and shell fish handled fresh.....	668,722 78
Food and shell fish preserved (other than canned).....	1,616,100 89
Fish by-products.....	125,843 24
Hallbut.....	1,420,331 54
Codfish.....	54,855 00
Oysters.....	29,217 30
<b>Total.....</b>	<b>\$9,806,931 02</b>

\* Value based on average wholesale price.  
 The hallbut and codfish are not strictly Washington products, as these fish are taken mostly in the waters of Bering Sea and Alaska and brought to Puget Sound to be marketed.

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OUTPUT OF SALMON FROM THE STATE HATCHERIES.

Fiscal Year 1921.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other Hatcheries 31, 1921	No. Eggs on Hand March 31, 1921	Number Eggs Lost	Number Eggs Shipped	No. Eggs on Hand March 31, 1922	Number Hatched	Number Fry From Other Hatcheries	No. Fry on Hand March 31, 1921	No. Fry Lost	Number Fry Planted	Number Fry Shipped	No. Fry on Hand March 31, 1922	
<b>OHINOOK SALMON</b>															
<b>PUGET SOUND DIST.—</b>															
Dungeness .....	80	374,700			21,825	12,000		340,875				340,875			
Elwha .....	48	185,000			584,000	*125,000		180,400			400	180,000			
Green River .....	306	5,600,275	4,800,000		584,450			9,720,825			52,218	8,610,000		1,058,610	
Sauish .....			4,800,000		200,000			4,600,000			34,220	1,610,000	11,639,200	1,316,580	
Skokomish .....	7	28,000	4,500,000		168,313			4,419,685	450,000		16,600	16,000		423,400	
Office Sup'v of Fisheries .....			12,000		1,288			10,712			162	4,378,115	**10,560		
Totals .....	1,101	6,187,975	14,172,000		950,478	137,000		19,272,497	450,000		145,167	15,128,990	1,649,750	2,798,590	
<b>COLUMBIA RIVER DIST.—</b>															
Chinook .....	517	2,800,000			141,400			2,757,600			8,800	649,000		1,799,800	
Klamath .....	6,673	36,531,000			1,679,500	20,260,000		14,561,500			27,350	11,699,150		2,900,000	
Wind River .....	338	1,723,355	1,200,000		86,405			2,836,950			21,750	2,810,200			
Totals .....	7,528	41,153,355	1,200,000		1,907,305	20,260,000		20,186,050			57,900	15,428,350		4,699,800	
<b>GRAYS HARBOR DIST.—</b>															
Chehalis .....	50	208,000	4,800,000		52,500			4,955,500			4,050	4,376,450	575,000		
Totals .....	50	208,000	4,800,000		52,500			4,955,500			4,050	4,376,450	575,000		
<b>WILLAPA HARBOR DIST.—</b>															
Naselle .....	354	1,419,200			164,300			1,254,900			6,400	1,248,500			
Willapa .....	1,108	5,168,000	4,800,000		390,300	20,260,000		4,807,700			32,700	4,775,000			
Totals .....	1,462	6,587,200			524,600			6,062,600			39,100	6,023,500			
<b>RFCAPITULATION—</b>															
Puget Sound District .....	1,101	6,187,975	14,172,000		950,478	137,000		19,272,497	450,000		145,167	15,128,990	1,649,750	2,798,590	
Columbia River District .....	7,528	41,153,355	1,200,000		1,907,305	20,260,000		20,186,050			57,900	15,428,350		4,699,800	
Grays Harbor District .....	50	208,000	4,800,000		52,500			4,955,500			4,050	4,376,450	575,000		
Willapa Harbor Dist .....	1,462	6,587,200			524,600			6,062,600			39,100	6,023,500			
Grand Totals .....	10,141	54,136,530	20,172,000		3,434,888	20,397,000		50,476,647	450,000		246,217	40,957,290	2,224,750	7,498,390	

\* 125,000 shipped to State of New Hampshire.  
 † 259,200 shipped to United States Bureau of Fisheries, Birdsview, Wash.  
 ‡ 100,000 shipped to University of Washington.  
 \*\* 10,560 shipped to King County.

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.  
Fiscal Year 1921.

	Number Females Spawnd	Number Eggs Taken	Number Eggs Received From Other H'tcher's	Number Eggs on Hand March 31st, 1921	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1922	Number Fry Hatched	Number Fry Received From Other H'tch's	Number Fry on Hand March 31st, 1921	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
<b>DOG SALMON</b>														
PUGET SOUND DIST.—														
Chambers Creek.....	2,705	7,452,000		281,745	253,845			7,179,900		692,450	7,500	7,774,850		
Dungeness.....										482,559	1,574	1,460,985		
Elwha River.....										1,275,000		1,275,000		
Green River.....										935,565	139	835,426		
Green River, No. 2.....										2,013,275	600	2,013,475		
M. F. Nooksack.....				218,000	1,000			217,000		2,438,000	14,000	2,641,000		
Puyallup River.....										1,403,000	637	1,402,443		
Sauwish.....										2,621,233	860	2,620,643		
Stromomish.....										1,242,325	1,000	1,241,325		
Stromomish.....										2,064,840	1,450	2,063,460		
Tanuya Eyeing Station.....	41	123,000						123,000		1,178,750	130	1,178,600		
Totals.....	2,746	7,275,000		499,745	254,845			7,519,900		16,604,907	28,096	24,066,712		
<b>COLUMBIA RIV. DIST.—</b>														
Wenatchee.....										487,335	2,890	484,955		
Totals.....										487,335	2,890	484,955		
<b>WILLAPA HBR. DIST.—</b>														
Naselle.....										89,735	150	89,685		
Totals.....										89,735	150	89,685		
<b>RECAPITULATION—</b>														
Puget Sound District.....	2,746	7,275,000		499,745	254,845			7,519,900		16,604,907	28,095	24,066,712		
Columbia River Dist.....										487,335	2,890	484,955		
Grays Harbor Dist.....														
Willapa Harbor Dist.....										89,735	150	89,685		
Grand Totals.....	2,746	7,275,000		499,745	254,845			7,519,900		17,181,977	30,625	24,871,252		

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OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.  
Fiscal Year 1921.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other H'tcher's	Number Eggs on Hand March 31st, 1921	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1922	Number Fry Hatched	Number Fry Received From Other H'tch's	Number Fry on Hand March 31st, 1921	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
<b>HUMPBACK SALMON</b>														
PUGET SOUND DIST.—														
Dungeness	3,572	3,990,500	.....	.....	219,000	2,015,000	.....	1,765,500	.....	.....	.....	400,000	.....	1,365,500
Elwha	897	1,278,000	500,000	.....	123,000	.....	1,745,000	.....	.....	.....	10,000	1,535,000	.....	200,000
Green River	259	768,000	1,300,000	.....	63,000	.....	1,377,000	.....	.....	.....	16,570	842,717	.....	547,700
Skykomish	15	29,000	15,000	.....	1,770	.....	24,230	.....	.....	.....	368	23,862	.....	.....
Office Sup'y. of Fish...			15,000	.....	1,000	.....	13,400	.....	.....	.....	900	12,500	.....	.....
Totals	4,743	6,071,500	2,015,000	.....	440,670	2,015,000	.....	5,630,830	.....	.....	29,830	3,475,300	.....	2,113,200
<b>SILVER SALMON</b>														
PUGET SOUND DIST.—														
Chambers Creek	142	393,000	.....	.....	32,500	.....	16,000	314,500	.....	.....	57,430	312,080	.....	56,500
Dungeness	134	354,000	.....	703,656	12,650	.....	345,000	790,006	.....	.....	36,000	822,004	.....	.....
Elwha	24	190,000	.....	.....	3,000	.....	.....	57,000	.....	.....	65,000	65,000	.....	57,000
Green River	566	1,778,000	1,726,750	.....	233,776	.....	.....	3,237,486	.....	.....	1,533,520	4,486,729	.....	321,000
Green River No. 2			.....	.....	26,512	.....	.....	337,350	.....	.....	1,475,985	1,832,295	.....	.....
Nooksack	1,633	5,229,000	.....	494,000	231,400	.....	1,327,000	4,164,000	.....	.....	3,011,175	3,500,350	.....	3,664,850
M. F. Nooksack			.....	1,092,000	4,000	.....	.....	998,000	.....	.....	1,227,000	2,218,000	.....	.....
Pilehuck			.....	.....	.....	.....	.....	.....	.....	.....	45,060	45,000	.....	.....
Puyallup River	1,320	3,665,500	.....	7,167,200	238,450	.....	3,191,550	7,400,700	.....	.....	468,787	467,743	.....	.....
Samish	52	159,000	.....	146,500	3,900	.....	131,600	170,000	.....	.....	2,944,463	9,992,648	.....	343,292
Skokomish	1,097	3,339,250	.....	810,035	107,115	.....	733,066	3,359,085	.....	.....	1,097,920	255,170	.....	24,000
Skykomish			.....	.....	.....	.....	.....	.....	.....	.....	1,021,925	1,828,920	.....	2,546,046
Tahuya Eyeing Sta.			.....	.....	.....	.....	.....	.....	.....	.....	57,325	57,250	.....	.....
Totals	4,970	14,697,750	1,726,750	10,825,252	866,791	.....	5,744,835	20,938,126	.....	.....	12,063,380	25,856,155	.....	7,001,687

\* 1,726,750 received from King County. † 12,500 shipped to King County.

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.  
Fiscal Year 1921.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other Hatcher's	Number Eggs on Hand March 31st, 1921	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1922	Number Fry Hatched	Number Fry Received From Other Hatcher's	Number Fry on Hand March 31st, 1921	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
SILVER SALMON—Continued.														
COLUMBIA RIV. DIST.—														
Chinook	218	565,500		301,700	20,300			545,200		10,900	1,200	100,800		364,100
Pateros Methow		1,038,000			400		63,275	301,300		1,022,325	250	301,000		368,085
Tilton River	346				14,725			960,000		1,063,225	2,455	1,621,865		722,135
Totals	564	1,603,500		301,700	35,425		63,275	1,806,500		3,905	3,905	2,113,685		
GRAYS HARBOR DIST.—														
Chehalis	5,188	17,747,100		1,914,405	661,300		12,337,000	6,683,205		7,075,572	3,624	9,277,643		4,457,510
Humptulps				470,215	9,000			461,215		2,970,355	3,000	3,423,570		
Totals	5,188	17,747,100		2,384,620	670,300		12,337,000	7,124,420		10,045,927	6,624	12,706,213		4,457,510
WILLAPA HARBOR DIST.—														
Naselle River				149,775	375		3,000,000	149,400		631,060	2,570	777,920		
Willapa	2,057	6,756,500		619,500	246,600		3,000,000	4,129,400		1,830,000	20,400	2,430,500		3,514,500
Totals	2,057	6,756,500		769,275	246,975		3,000,000	4,278,800		2,467,060	22,900	3,208,420		3,514,500
RECAPITULATION—														
Puget Sound District	4,970	14,997,750	1,726,750	10,825,252	866,791		5,744,835	20,988,126		12,063,380	133,694	25,856,155		7,001,687
Columbia River Dist.	544	1,668,500		301,700	35,425		63,275	1,966,500		1,033,225	3,905	2,113,685		722,135
Grays Harbor Dist.	5,188	17,747,100		2,384,620	670,300		12,337,000	7,124,420		10,045,927	6,624	12,706,213		4,457,510
Willapa Harbor Dist.	2,057	6,756,500		769,275	246,975		3,000,000	4,278,800		2,467,060	22,900	3,208,420		3,514,500
Grand Totals	12,779	41,104,850	1,726,750	14,290,847	1,819,491		21,145,110	34,147,846		25,569,612	167,153	43,884,473		15,695,882

\* 1,726,750 received from King County.

## OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.

Fiscal Year 1921.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Hatchers	Number Eggs on Hand March 1921	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1922	Number Fry Hatched	Number Fry Received From Other Hatchers	Number Fry on Hand March 31st, 1921	Num- ber Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
<b>PUGET SOUND DIST.—</b>														
Chambers Creek.....	24	112,100	.....	334,450	32,250	.....	.....	414,300	40,000	53,750	13,300	385,000	*109,150	.....
Dungeness.....	64	171,100	.....	6,875	33,100	.....	.....	144,875	.....	.....	625	144,350	.....	.....
Elwha.....	73	133,000	.....	14,000	13,000	.....	15,000	125,000	.....	.....	4,000	121,000	.....	.....
Green River No. 2.....	102	360,500	.....	27,000	74,550	**44,000	.....	218,950	.....	.....	1,650	41,300	†229,000	.....
Nooksack.....	6	20,000	.....	.....	575	.....	.....	19,425	.....	.....	.....	19,425	.....	.....
Pilehuck.....	168	600,000	.....	282,680	62,000	.....	.....	538,680	.....	.....	2,800	335,200	‡200,000	.....
Samish.....	211	737,000	.....	58,760	58,760	§270,500	5,500	676,520	.....	.....	9,737	661,783	§§5,000	.....
Skykomish.....	105	382,530	.....	29,100	30,725	.....	14,475	346,030	.....	.....	2,085	204,865	‡‡100,000	.....
O'ice Sup. of Fish.....	.....	.....	39,500	.....	1,887	.....	.....	38,113	.....	.....	2,058	226,055	.....	.....
Totals.....	753	2,523,930	29,500	694,005	306,347	323,500	35,475	2,592,113	40,000	53,750	36,105	1,973,553	676,205	.....
<b>COLUMBIA RIV. DIST.—</b>														
Patros-Methow.....	129	638,000	.....	47,450	63,000	100,000	.....	475,000	.....	.....	570	.....	†474,430	.....
Tilton River.....	290	627,000	.....	.....	16,400	‡2300,000	.....	358,600	.....	.....	1,885	215,000	††141,105	.....
Totals.....	338	1,265,000	.....	47,450	79,400	400,000	.....	833,600	.....	.....	2,455	215,000	615,535	.....
<b>GRAYS HARBOR DIST.—</b>														
Chehalis.....	400	1,535,050	.....	987,480	86,180	.....	474,300	1,293,050	.....	.....	2,450	1,001,500	‡‡253,001	.....
Humptulps.....	27	97,000	.....	163,450	21,130	.....	.....	229,300	.....	56,955	.....	294,506	.....	.....
Totals.....	427	1,632,050	.....	450,230	107,310	.....	474,300	1,592,350	.....	56,955	4,209	1,296,006	259,001	.....
<b>WILLAPA HARBOR DIST.—</b>														
Nesed River.....	58	194,000	.....	30,455	675	164,200	.....	29,780	.....	.....	380	29,404	.....	.....
North River.....	547	2,384,000	164,200	562,000	349,000	.....	1,426,000	1,239,200	.....	10,000	37,700	1,211,500	.....	.....
Willapa.....	.....	.....	164,200	592,455	389,075	164,200	1,426,000	1,293,980	.....	10,000	38,060	1,240,000	.....	.....
Totals.....	605	2,498,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

\* 109,150 shipped to Kittitas County.

\*\* 44,000 shipped to Yakima County.

† 106,000 shipped to Yakima County.

†† 120,000 shipped to Kittitas County.

‡ 100,000 shipped to Spokane County.

‡‡ 100,000 shipped to Spokane County.

‡‡‡ 30,000 shipped to P. B. Prentice.

‡‡‡‡ 100,000 shipped to State of Connecticut.

‡‡‡‡‡ 30,000 shipped to E. P. Doolittle.

§ 80,000 shipped to F. H. Brunson.

§§ 5,000 shipped to Ralph L. Squires.

‡ 60,000 shipped to Chelan County.

‡‡ 36,055 shipped to King County.

‡‡‡ 60,000 shipped to Okanogan County.

‡‡‡‡ 30,000 shipped to Pierce County.

‡‡‡‡‡ 41,106 shipped to Lewis County.

‡‡‡‡‡‡ 200,000 shipped to Thurston County.

†† 59,001 shipped to Mason County.

‡‡ 140,000 shipped to King County.

‡‡‡ 140,000 shipped to U. S. Bureau of Fisheries,

Emigrant, Montana.

‡‡‡‡ 20,000 shipped to Lewis County.

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.

Fiscal Year 1921.

	Number Females Spawned	Number Eggs Taken	Number Eggs Received From Other Hatcheries	Number Eggs on Hand March 31st, 1921	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1922	Number Fry Hatched	Number Fry Received From Other Hatcheries	Number Fry on Hand March 31st, 1921	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
<b>RECAPITULATION—</b>														
Puget Sound Dist.....	753	2,522,930	37,500	694,006	306,347	323,500	35,475	2,592,113	40,000	53,750	36,106	1,973,533	676,206	.....
Columbia River Dist.....	338	1,265,000	.....	47,450	79,400	400,000	.....	523,850	.....	215,000	2,465	215,000	615,595	.....
Grays Harbor Dist.....	487	1,633,050	.....	439,899	107,330	107,330	474,300	1,502,360	.....	54,955	4,200	1,236,005	239,001	.....
Willapa Harbor Dist.....	603	2,482,600	164,200	522,436	380,075	164,200	1,434,000	1,208,380	.....	10,000	38,980	1,240,900	.....	.....
Grand Totals.....	2,183	7,904,580	203,700	1,784,840	873,152	887,700	1,935,775	6,196,493	40,000	120,706	80,849	4,725,458	1,560,891	.....
<b>ALL SPECIES COMBINED</b>														
<b>PUGET SOUND DIST.—</b>														
Chambers Creek.....	2,871	7,627,100	.....	616,196	313,546	2,027,000	16,000	7,908,700	40,000	713,630	24,150	8,472,530	109,150	56,500
Dungeness.....	3,870	4,869,300	.....	800,330	296,375	345,000	345,000	3,041,255	.....	498,559	6,104	2,108,210	.....	1,365,500
Elwha.....	1,042	1,662,000	500,000	14,000	53,000	15,000	15,000	2,107,000	.....	1,340,000	14,400	3,176,000	.....	267,000
Green River.....	1,701	8,146,275	6,526,750	26,512	910,526	125,000	.....	13,664,011	.....	2,469,085	34,614	14,668,872	.....	1,379,610
Green River No. 2.....	102	399,500	.....	414,350	74,550	44,000	.....	656,300	.....	3,490,300	33,620	3,497,640	226,000	.....
Nooksack.....	1,661	5,249,000	.....	494,000	231,975	1,327,000	1,327,000	4,183,425	.....	3,011,175	19,975	3,519,775	.....	3,054,850
M. F. Nooksack.....	168	600,000	.....	1,220,000	62,000	.....	.....	1,215,000	.....	3,685,000	21,000	4,867,000	200,000	.....
Pilehuck.....	.....	.....	.....	.....	.....	.....	.....	588,000	.....	45,050	2,850	380,200	.....	.....
Puyallup River.....	1,531	4,403,200	6,300,000	7,447,780	560,210	279,500	3,197,050	14,114,220	.....	1,981,847	1,681	1,980,186	.....	.....
Samish.....	52	159,000	.....	146,500	3,940	.....	181,600	170,000	450,000	5,565,696	100,349	15,727,735	1,644,200	2,207,572
Skokomish.....	1,184	3,826,780	4,560,000	839,135	307,925	.....	748,060	8,169,980	.....	3,086,845	82,468	8,599,282	100,000	2,646,045
Snohomish.....	.....	.....	.....	.....	.....	.....	.....	123,000	.....	1,178,780	180	1,178,600	.....	.....
Tahuya Eyeing Station.....	41	123,000	.....	.....	.....	.....	.....	62,225	.....	303,925	200	486,725	.....	.....
Office Sup'r Fisheries.....	.....	.....	.....	.....	4,275	.....	.....	.....	.....	.....	.....	.....	59,100	.....
Totals.....	14,313	37,056,155	17,953,250	12,019,002	2,819,131	2,475,500	5,786,310	56,953,466	490,000	28,712,007	378,861	70,530,710	2,338,456	11,913,477

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Concluded.  
Fiscal Year 1921.

ALL SPECIES COMBINED—Continued.	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other Hatcher's	Number Eggs on Hand March 31st, 1921	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1922	Number Fry Hatched	Number Fry Received From Hatcher's	Number Fry on Hand March 31st, 1921	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
<b>COLUMBIA RIV. DIST.—</b>														
Chinook .....	735	3,464,500			161,700	1,670,600	20,260,000	3,302,800		10,900	10,000	1,139,800		2,183,900
Kalama .....	6,673	36,531,000			1,670,600	20,260,000		14,501,800			22,350	11,689,150		2,800,000
Pateros-Methow .....	120	638,000		301,700	63,400	100,000		176,300			800	307,050	474,430	
Tilton River .....	555	1,663,000		47,450	31,125	300,000	63,275	1,318,000		1,022,335	4,340	1,836,825	141,165	358,065
Wenatchee .....								2,836,950		467,335	2,380	484,965		
Wind River .....	338	1,723,355	1,200,000		86,406						26,750	2,810,200		
Totals .....	8,430	44,021,855	1,200,000	349,150	2,022,130	20,660,000	63,275	22,825,600		1,520,566	66,640	18,241,900	615,596	5,421,925
<b>GRAYS HARBOR DIST.—</b>														
Chenails .....	5,038	19,491,150	4,800,000	2,201,885	799,860		12,811,300	12,881,755		7,075,572	10,133	14,685,582	884,001	4,457,510
Humtupluis .....	27	97,000		633,665	30,150			700,515		3,027,310	4,750	3,723,075		
Totals .....	5,725	19,588,150	4,800,000	2,835,550	830,130		12,811,300	13,582,270		10,102,882	14,883	18,378,668	884,001	4,457,510
<b>WILLAPA HARBOR DIST.—</b>														
Naselle River .....	354	1,419,200		180,230	165,350			1,484,080		720,815	9,490	2,145,405		
North River .....	58	194,000			30,400	164,200				1,846,000	90,800	8,417,000		3,514,500
Willapa .....	3,712	14,212,500	164,200	1,181,500	955,900		4,426,000	10,176,300						
Totals .....	4,124	15,829,300	164,200	1,361,730	1,151,650	164,200	4,426,000	11,670,380		2,566,815	100,290	10,562,405		3,514,500
<b>RECAPITULATION—</b>														
Puget Sound Dist.....	14,313	37,054,135	17,683,250	12,019,022	2,819,131	2,475,500	5,780,310	55,953,469	490,000	28,712,087	372,851	70,530,710	2,338,455	11,913,477
Columbia River Dist.....	8,430	44,021,855	1,200,000	349,150	2,022,130	20,660,000	63,275	22,825,600		1,620,560	66,640	18,241,900	615,596	6,421,925
Grays Harbor Dist.....	5,725	19,588,150	4,800,000	2,835,550	830,130		12,811,300	13,582,270		10,102,882	14,883	18,378,668	884,001	4,457,510
Willapa Harbor Dist.....	4,124	15,829,300	164,200	1,361,730	1,151,650	164,200	4,426,000	11,670,380		2,566,815	100,290	10,562,405		3,514,500
Grand Totals.....	32,592	116,492,460	24,117,450	16,556,452	6,823,041	23,239,700	23,080,855	103,971,716	490,000	42,902,294	554,674	117,713,773	3,788,141	26,307,422

**SUMMARY OF OUTPUT OF SALMON FROM STATE HATCHERIES**  
Fiscal Year 1921.

	CHINOOK	DOG	HUMPBACK	SILVER	STEEL-HEAD	TOTALS
Number females spawned.....	10,141	2,746	4,743	12,779	2,188	32,562
EGGS Taken by state hatcheries.....	54,136,530	7,275,000	6,071,500	41,104,860	7,904,860	116,492,460
Received from King County.....				1,726,760		1,726,760
Totals.....	54,136,530	7,275,000	6,071,500	42,831,600	7,904,860	118,219,210
On hand April 1, 1921.....		499,745		14,280,847	1,784,840	16,565,432
Grand Totals.....	54,136,530	7,774,745	6,071,500	57,112,447	9,689,420	134,784,642
Lost	3,434,883	254,845	440,670	1,819,491	873,152	6,823,041
Furnished to University of Washington (experimental purposes).....	100,000				140,000	100,000
Furnished to United States Bureau of Fisheries.....						140,000
Furnished to county hatcheries for hatching and planting as follows:						
King County.....						140,000
Lewis County.....						20,000
Yakima County.....						44,000
Sold to State of Connecticut.....						100,000
Sold to State of New Hampshire.....						125,000
Sold to J. H. Brunson (private hatchery).....						80,000
Sold to E. P. Doolittle (private hatchery).....						30,000
Sold to P. B. Prentice (private hatchery).....						30,000
On hand March 31, 1922.....				21,145,110	1,985,775	23,080,886
FRY	50,476,647	7,519,900	5,630,830	34,147,846	6,198,493	108,971,716
Hatched	17,181,977	25,599,612		25,599,612	120,705	42,902,294
Lost	246,217	30,625	29,830	167,153	80,849	554,674
Furnished to counties (in lieu of trout).....	10,560		12,500		1,028,461	1,061,511
Furnished to United States Bureau of Fisheries.....	259,200					259,200
Planted	40,967,290	24,671,252	3,475,300	43,884,473	4,725,458	117,713,773
On hand March 31, 1922.....	7,498,390		2,113,200	15,686,822		25,307,422

**PERCENTAGE OF LOSS ON EGGS AND FRY.**  
Fiscal Year 1921.

SPECIE	Loss on Eggs	Loss on Fry	SPECIE	Average Number Eggs
Chinook.....	6%	0.4%	Chinook.....	5,888
Dog.....	8.5%	0.4%	Dog.....	2,649
Humpback.....	7%	0.5%	Humpback.....	1,280
Silver.....	4%	0.4%	Silver.....	3,216
Steelhead.....	11%	1.3%	Steelhead.....	8,620

## ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS.

Fiscal Year 1921.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
		<b>OLALLAM COUNTY</b>			
1921					
June 12	Leo Bennett	Operating set net in mouth of Dungeness River.	Guilty	\$50.00	
June 12	Herman Moorbeck	Operating set net in mouth of Dungeness River.	Guilty	100 00	
June 14	August Peterson	Trolling commercially without license.	Acquitted		
June 14	John Smith	Trolling commercially without license.	Acquitted	5 00	
June 14	Z. Fletcher	Trolling commercially without license.	Acquitted		
June 14	O. Blaser	Trolling commercially without license.	Acquitted		
June 14	D. C. Garranger	Trolling commercially without license.	Guilty	25 00	
June 14	H. Groth	Trolling commercially without license.	Acquitted		
June 21	J. W. Jorgensen	Possession of salmon brought from outside three mile limit into closed waters.	Guilty	50 00	\$230 00
		<b>CLARKE COUNTY</b>			
1921					
April 21	Charles Greenberg	Transporting salmon during closed season.	Guilty	\$75 00	
		<b>COOWLITZ COUNTY</b>			
1922					
Mar. 5	August Mattila	Operating dip net without license.	Guilty	\$25 00	
Mar. 5	Elmer Krobus	Operating dip net without license.	Guilty	50 00	
Mar. 19	John Karmitz	Possession of salmon during closed season.	Guilty	10 00	85 00
		<b>KING COUNTY</b>			
1921					
April 12	S. Morviato	Fishing without license.	Guilty	\$2 25	
April 12	H. Hasogi	Fishing without license.	Guilty	2 25	
April 12	Masoo Kuswose	Fishing without license.	Guilty	2 25	
May 9	G. Tawaka	Operating as wholesale dealer without license.	Guilty	25 00	
May 9	Angelo Sismanis	Operating as short salmon.	Guilty	25 00	
May 9	Frank Tarras	Operating as fish buyer without license.	Guilty	10 00	
May 19	G. Shields	Operating as wholesale dealer without license.	Not guilty		
June 7	G. Maeguchi	Operating set lines without license.	Guilty	15 00	
Oct. 18	J. Doe Nelson	Possession of short salmon.	Guilty	10 00	
Oct. 20	H. R. Kirkpatrick	Selling short salmon.	Guilty	25 00	
Oct. 25	Geo. F. Hoecker	Possession of short salmon.	Not guilty		

ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS.—Continued.

Fiscal Year 1921.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
KING COUNTY (Concluded)					
1922	Joe Mick	Possession of salmon taken in closed waters.	Guilty	\$25 00	
Jan. 5	K. Yamashita	Possession of salmon taken in closed waters.	Guilty	25 00	
Jan. 5	George Meholas	Possession of salmon taken in closed waters.	Guilty	25 00	
Jan. 27	R. Sakl	Buying short salmon.	Dismissed	25 00	
Jan. 27	Christ Jensen	Buying short salmon.	Guilty	48 00	
Jan. 28	John J Coffey	Possession of short salmon.	Ball forfeited	40 00	
Jan. 30	Blanc's Cafe	Possession of salmon taken in closed waters.	Ball forfeited	30 00	
Jan. 31	L. Le	Possession of short salmon.	Guilty	26 00	
Feb. 3	Don's Cafe	Possession of short salmon.	Guilty	10 00	
Feb. 3	Savoys Cafe	Possession of short salmon.	Guilty	5 00	
Feb. 3	Levy Nix	Selling fish at retail without license.	Guilty	5 00	
Feb. 3	N. Chumides	Selling fish at retail without license.	Guilty	5 00	
Feb. 4	Joseph Watts	Selling fish at retail without license.	Guilty	5 00	
Feb. 4	E. K. Herrett.	Selling fish at retail without license.	Guilty	5 00	
Feb. 8	Tom Rodgers	Possession of more than 25 salmon in one day	Guilty	5 00	
Feb. 15	Gus Steiner	Selling fish at retail without license.	Guilty	5 00	
Feb. 15	J. Brown	Operating set nets in Duwamish River.	Guilty	10 00	
Feb. 20	H. Hook	Casting sawdust in Duwamish River.	Not guilty		
Feb. 20	G. Nash	Operating sawdust in Duwamish River.	Dismissed		
Feb. 28	A. Empens	Operating set nets in Duwamish River.	Not guilty		
Feb. 28	C. O. Sheldon.	Operating set nets in Duwamish River.	Not guilty		
Mar. 20	A. Sanden	Selling fish at retail without license.	Ball forfeited	10 00	
Mar. 20	K. Sekuaina	Selling fish at retail without license.	Ball forfeited	10 00	439 75
PACIFIC COUNTY					
1921	John Richards	Illegal possession of fish.	Guilty	\$75 00	
June 25	N. P. Olsen	Buying illegal fish.	Guilty	75 00	
June 25	Gus Johnson	Illegal possession of fish.	Guilty	25 00	
June 25	Albert Erickson	Illegal possession of fish.	Guilty	15 00	
June 25	C. Carlson	Illegal possession of fish.	Guilty	25 00	
June 25	A. Bell	Illegal possession of fish.	Guilty	25 00	
July 12	P. R. Johnson	Illegal possession of fish.	Guilty	25 00	
Aug. 9	Sol Michaels	Operating troll boat without license.	Guilty	50 00	
Aug. 10	Olva Wilfala	Operating troll net during weekly closed season.	Acquitted		
Aug. 11	A. Fulllemeny	Allen fishing with Union Fishermen's Co-Op. Pkg. Co. Cannery license	Guilty	50 00	

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ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS—Continued.

Fiscal Year 1921.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
<b>PACIFIC COUNTY (Concluded)</b>					
1921	Walter Sweeny	Fishing during weekly closed season	Guilty	25 00	
Aug. 13	T. Johnson	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Frank Holman	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	R. Hendrickson	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	O. Erickson	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	John Svicanavich	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	A. Rosh	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Ted Peterson	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Pete O'Dell	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Anton Kordich	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Axel Berg	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Steen Aalas	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	John Marinovich	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Tom Johnson	Fishing during weekly closed season	Guilty	25 00	
Aug. 13	Axel Johnson	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Gideon Martins	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Gus Lempl	Fishing during weekly closed season	Guilty	50 00	
Aug. 13	Wm. Kangas	Operating gill net during weekly closed season	Guilty	50 00	
Aug. 21	Olva Kangas	Boat puller with Wm. Kangas	Guilty	25 00	
Aug. 21	Charles Anderson	Maintaining fake apron on trap during weekly closed season	Guilty	750 00	
Aug. 21	Charles Anderson	Maintaining fake apron on trap during weekly closed season	Guilty	750 00	
Aug. 21	Frank Johnson	Fishing during weekly closed season	Guilty	25 00	
Aug. 23	Arnold Mattison	Operating gill net during weekly closed season	Dismissed		
Aug. 23	Ivor Karl	Operating gill net during weekly closed season	Dismissed		
Aug. 26	Gus Peterson	Buying fish for Anderson Fish Company without license and bond	Dismissed		2,745 00
<b>PIERCE COUNTY</b>					
1921	Sam Paraulich and crew of five men	Catching and having in possession short salmon	Guilty	\$80 00	
May 11	G. Hornichi	Possession of short salmon	Guilty	5 00	
May 11	R. W. Hammer	Possession of short salmon	Guilty	12 50	
May 11	G. W. Eden	Buying fish without license	Guilty	10 00	
May 11	J. Swanes	Selling short salmon	Guilty	12 50	
May 11	K. Yamamoto	Possession of short salmon	Guilty	5 00	
June 21	Joseph Maddock	Operating as wholesale dealer without license	Dismissed		
Sept. 23	Andro Betnich	Fishing in closed waters	Guilty	50 00	
Dec. 15	G. Phill	Possession of illegally caught salmon	Dismissed		
1922	Paul Hammer	Possession of salmon taken in closed waters	Guilty	75 00	230 00

ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS—Concluded.

Fiscal Year 1921.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
1921 Aug. 26	A. Bezich	SAN JUAN COUNTY Fishing during closed season.	Bail forfeited.	\$250 00	250 00
1922 Feb. 3 Feb. 10 Feb. 12	Mike Woolich Joe Matclich Mike Frank	SKAGIT COUNTY Operating drag seine without license. Shipping short crabs. Shipping short crabs.	Gulley Gulley Gulley	\$10 00 10 00 10 00	30 00
1921 May 14 May 14 May 28 May 28 May 29 May 29 May 29 May 29 May 29 May 29 May 29 May 29 May 29 May 29 May 29 Nov. 25 Nov. 25 Nov. 25	Anthony Pletnich John Bussanich Aron O. Holm Basil Kourkos Paracos Collares Louis Poletis A. Tudor Minas Hagermanis Nick Maljot John Projcich Andrew Radovich Gargo Bokovich Glenn Bliss Nick Tomlich	SNOHOMISH COUNTY Operating gill net without license. Operating gill net without license. Operating gill net over 500 ft. in length with less than 5-in. mesh Operating gill net over 500 ft. in length with less than 5-in. mesh Operating gill net over 500 ft. in length with less than 5-in. mesh Operating gill net over 500 ft. in length with less than 5-in. mesh Operating gill net over 500 ft. in length with less than 5-in. mesh Operating gill net over 500 ft. in length with less than 5-in. mesh Fishing in closed waters. Fishing in closed waters. Fishing in closed waters. Fishing in closed waters. Fishing in closed waters. Fishing in closed waters. Fishing in closed waters. Fishing in closed waters.	Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley Gulley	\$15 00 15 00 15 00 15 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00	325 00
1921 June 11 Aug. 17 Oct. 7 Oct. 26	Ray Hookstra I. Seche D. Suanich B. Simanson	WHATCOM COUNTY Fishing without license. Fishing without license. Fishing in closed waters. Fishing without license.	Gulley Gulley Dismissed Gulley	\$5 00 50 00 ..... 25 00	80 00
	Total.			.....	\$4,414 75

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**NUMBER AND VALUE OF CANNERIES AND FACTORIES OPERATED, AND THEIR FISHING APPLIANCES, AND CAPITAL INVESTED.**

Fiscal Year 1921.

	PUGET SOUND DISTRICT		COLUMBIA RIVER DISTRICT		GRAYS HARBOR DISTRICT		WILLAPA HARBOR DISTRICT		ALL DISTRICTS COMBINED	
	Num-ber	Value	Num-ber	Value	Num-ber	Value	Num-ber	Value	Num-ber	Value
Canneries, salmon (buildings and machinery).	32	\$2,234,847 03	9	\$300,502 83	5	\$25,512 25	1	\$31,802 47	47	\$2,592,756 18
Canneries, other than salmon.	4	25,500 00			10	90,614 22	4	7,500 00	18	123,614 22
Factories, by-products.	2	175,000 00							2	175,000 00
Warehouses, cold storages, smoke houses, packing plants, fuel houses, residences for labor, real estate.		830,447 50		113,467 58		5,740 37		14,765 78		964,421 23
Automobiles, trucks and other land conveyances.	16	14,226 05	2	1,800 00	9	3,500 00	5	2,050 00	32	21,576 05
Steamboats.	11	100,144 79							11	100,144 79
Launches.	26	140,118 70	17	39,246 46	2	4,000 00	2	1,800 00	47	189,165 16
Scows.	195	133,495 92	12	6,114 87	2	75 00			209	139,685 79
Cannery tenders.	28	240,682 84	6	15,682 36					34	256,365 20
Fishing boats.	10	23,255 00	194	114,917 39			3	500 00	209	138,672 32
Pile drivers or pullers.	23	171,571 50	3	11,874 50			1	1,200 00	27	114,636 33
Pound net locations operated.	97	940,233 22	17	28,270 11	10	41,000 00	4	2,000 00	128	1,011,532 33
Pound net locations not operated.	60	462,950 00			1	5,000 00			61	467,950 00
Stationary or scow fish wheels.			10	37,697 30					10	37,697 30
Net racks.		6,807 05	221	193,775 00	2	50 00			223	200,632 05
Nets and seines.		2,205 05	82	4,801 07					82	47,067 02
Miscellaneous equipment.	11	195,100 02		92,420 61		1,375 12		1,086 43	103	290,041 18
Total invested in plant and equipment.		\$5,645,637 37		\$900,189 01		\$176,806 96		\$32,763 68		\$6,875,467 02
Operating expenses.		5,859,751 12		1,272,151 53		420,567 50		37,383 82		7,629,853 97
Grand total capital invested.		\$11,545,388 49		\$2,202,320 54		\$597,434 46		\$100,177 50		\$14,505,320 99

**NUMBER AND EARNINGS OF LABORERS EMPLOYED IN OPERATION OF CANNERIES, FACTORIES AND THEIR APPLIANCES.**  
**Fiscal Year 1921.**

	PUGET SOUND DISTRICT			COLUMBIA RIVER DISTRICT			GRAYS HARBOR DISTRICT		
	Number Em- ployed	Average Season's Earnings	Total Earnings	Number Em- ployed	Average Season's Earnings	Total Earnings	Number Em- ployed	Average Season's Earnings	Total Earnings
Clerical Capacity—									
Male .....	80	\$2,281 65	\$180,922 55	27	\$1,533 98	\$41,517 69	7	\$858 69	\$6,010 83
Female .....	22	489 00	10,757 92	5	1,489 06	7,445 28	3	766 67	2,300 00
etc.—									
Operating canneries, factories, warehouses, etc.—									
White labor—male .....	754	511 77	385,879 28	41	1,333 38	53,438 47	128	327 84	41,865 89
White labor—female .....	474	139 73	66,331 83	20	270 32	5,406 55	185	163 08	30,171 26
Oriental labor .....	416	410 81	170,808 28	158	216 83	34,269 06			
Indian labor .....	108	233 76	25,246 62						
Operating pile drivers and pullers, boats, scows, nets and other fishing appliances.	591	643 51	370,828 03	54	634 45	34,260 06	192	110 67	21,250 00
Miscellaneous labor .....	100	259 56	25,954 64	18	278 54	5,033 69	3	1,200 00	3,600 00
<b>Totals .....</b>	<b>2,545</b>	<b>\$485 78</b>	<b>\$1,236,328 65</b>	<b>323</b>	<b>\$561 49</b>	<b>\$181,361 80</b>	<b>518</b>	<b>\$203 08</b>	<b>\$105,197 98</b>

	WILLAPA HARBOR DISTRICT			ALL DISTRICTS COMBINED		
	Number Em- ployed	Average Season's Earnings	Total Earnings	Number Em- ployed	Average Season's Earnings	Total Earnings
Clerical Capacity—						
Male .....	1	\$120 00	\$120 00	114	\$2,004 04	\$228,461 07
Female .....				31	665 26	20,623 20
Operating canneries, factories, warehouses, etc.—						
White labor—male .....	15	311 61	4,674 20	988	517 97	486,867 84
White labor—female .....	32	85 83	2,746 86	711	147 19	104,665 99
Oriental labor .....				574	357 44	206,158 34
Indian labor .....				108	233 76	25,246 62
Operating pile drivers and pullers, boats, scows, nets and other fishing appliances				887	508 76	425,838 09
Miscellaneous labor .....	50	129 50	6,475 00	171	240 13	41,063 33
<b>Totals .....</b>	<b>98</b>	<b>\$143 02</b>	<b>\$14,016 06</b>	<b>3,484</b>	<b>\$441 13</b>	<b>\$1,536,904 48</b>

**OUTPUT OF THE PRIVATE FISH HATCHERIES.**

Fiscal Year 1921.

Spawn sold .....	562,000
Fry sold .....	1,056,022
Fish sold .....	11,388



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# STATISTICS

FOR

FISCAL YEAR 1922

April 1, 1922, to March 31, 1923.

## FISHERIES DEPARTMENT

STATE OF WASHINGTON

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Appropriations, Receipts and Disbursements; Output of Salmon  
Hatcheries and Costs; Licenses Issued; Take and  
Value of Food Fishes; and Other Information  
Regarding the Food Fishing Industry.

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**APPROPRIATION AND EXPENDITURES OF FISHERIES FUND.**

Fiscal Year 1922.

FUND	Appropriation for Two Years	Expended Fiscal Year 1921	Expended Fiscal Year 1922
Salary of Supervisor of Fisheries, of Inspectors and employees; traveling expenses of Supervisor, Inspectors and employees; rent and incidentals; construction, repair and maintenance of salmon hatcheries; construction of new hatcheries; patrol service; improvements, replacements, destruction of seals; printing, and for the other necessary expenses of the office of the Supervisor of Fisheries.....	\$285,285 00	\$130,872 45	\$120,092 40

**ITEMIZATION OF EXPENDITURES OF FISHERIES FUND.**

	Salaries	Labor	Mileage	Subsistence	General Expense	Maintenance	Improvements	Total Cost of Operation	Egg Output	Cost Per Thousand
Office expense.....	\$4,900 00		\$1,371 60	\$1,688 68	\$14,826 82	\$19 70	\$40 50	\$22,344 30		
Repair and maintenance of hatcheries.....	15,373 78	\$17,453 19	379 20	619 31	7,757 36	3,171 15	5,575 17	50,323 16	113,335 860	\$0 44
Patrol service.....	1,788 00	2,379 13	101 28	570 10	7,689 13	2,706 63	2,001 88	17,246 15		
Sundry expense.....	224 00	1,011 78			3,448 07			4,683 86		
Biological expense.....					1,348 63			1,348 63		
Alaska .....	960 00	8,890 28	769 40	517 16	12,875 97	127 50		24,140 31		
<b>Totals.....</b>	<b>\$22,545 78</b>	<b>\$29,734 38</b>	<b>\$2,621 48</b>	<b>\$3,583 26</b>	<b>\$47,955 98</b>	<b>\$6,023 98</b>	<b>\$7,617 55</b>	<b>\$120,092 40</b>		

**APPROPRIATION AND EXPENDITURES OF STATE OYSTER RESERVE FUND.**

Fiscal Year 1932.

F U N D	Appropriation for Two Years	Expended Fiscal Year 1931	Expended Fiscal Year 1932
For the improvement and protection of the state oyster reserve.....	\$32,300 00	\$16,455 54	\$2,850 88

**ITEMIZATION OF EXPENDITURES OF STATE OYSTER RESERVE FUND.**

Patrol service.....	\$1,831 23
Improvement of oyster beds.....	1,019 50
Totals.....	\$2,850 88



**RECEIPTS OF THE FISHERIES DEPARTMENT.**  
Fiscal Year 1922.

CREDITED TO THE FISHERIES FUND		Puget Sound District	Columbia River District	Grays Harbor District	Willapa Harbor District	Entire State	Totals
<b>Licenses—</b>							
4,888 Fishing .....		\$16,424 88	\$12,400 14	\$3,130 95	\$4,198 00		\$33,213 97
81 Buyer's, at \$1.00 .....		42 00	37 00	1 00	1 00		81 00
10 Snow buyer's, at \$50.00 .....			500 00				500 00
769 Retail dealer .....		436 00	287 00	59 60	17 00		799 60
109 Wholesale dealer .....		400 00	1,400 00	110 00	80 00		1,990 00
6 Broker .....		50 00	10 00	10 00			70 00
24 Freezer .....		180 00	40 00	20 00			240 00
27 Halibut dealer .....		125 00		10 00			135 00
1 Codfish, curing and curing .....		5 00					5 00
3 By-products, manufacturing .....		75 00					75 00
12 Private hatchery .....		150 00	150 00				300 00
4 Private hatchery product dealer .....		7 50	2 50				10 00
7 Hotel serving private hatchery product .....		5 00					5 00
12 Permits to collect birds .....			2 00			12 00	14 00
33 Salmon cannery .....		375 00	225 00	175 00	50 00		825 00
82 Shell fish cannery .....		60 00	30 00	300 00	90 00		480 00
313 1921 licenses .....		136 00	147 00	159 00	18 00		460 00
5,951 Total .....							\$39,192 97
<b>Taxes—</b>							
Catch tax received .....		57,247 41	26,030 03	9,143 02	2,694 59		95,115 05
<b>Fines—</b>							
Salmon spawn .....			457 98				457 98
Confiscated gear .....		253 32	50 00				303 32
Confiscated fish .....		37 42	63 60	53 60			154 62
<b>Miscellaneous—</b>							
Transfers .....		19 00	28 00	4 00	1 00		52 00
Miscellaneous receipts .....		565 14	21 05		2 00		578 19
Refunds, not citizens .....		112 90	833 25	28 00	1 00		1,055 15
Refunds, overpayment .....		1,236 07	326 87	2 83	120 10		1,685 87
Items 3/30 and 3/31-25, Cr. by State Treasurer in (Cr.) .....		20 41	243 71	2 28	2 38		272 78
1922-23 but not included in above items .....		8 75	12 40	3 26			24 41
Collections reported by Fisheries Collector for State Treasurer .....		\$77,961 89	\$42,837 43	\$13,215 54	\$4,288 16	\$12 00	\$138,317 03
Collections reported by State Treasurer .....							2,396 40
Fines .....							512 46
Interest earnings .....							27 00
Sale of public property .....							91 37
Total credited to Fisheries Fund .....							\$141,345 64

RECEIPTS OF THE FISHERIES DEPARTMENT—Concluded.

Fiscal Year 1922.

CREDITED TO THE STATE OYSTER RESERVE FUND	Puget Sound District	Columbia River District	Grays Harbor District	Willapa Harbor District	Entire State	Totals
5 Oyster permits at \$5.00.....	\$25 00					\$25 00
Oysters sold (Direct to Treasurer).....	1,589 63					1,589 63
Oyster leases (Direct to Treasurer).....	764 89					764 89
Collected by Supervisor of Fisheries.....	\$2,379 52					\$2,379 52
Collections reported by State Treasurer—						
Interest earnings.....						18 60
Secretary Oyster Commission, C. P. L.....						197 30
Commissioner Public Lands.....						1,161 90
Totals.....						\$1,377 80
Total credited to Oyster Reserve Fund.....						\$3,757 32
Total receipts.....						145,102 96

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YEARLY COMPARATIVE TABLE OF RECEIPTS.

YEAR	FISHERIES FUND						OYSTER RESERVE FUND				Grand Total	
	Licenses	Taxes	Sales	Miscellaneous	Fines and Interest Earnings	Total	Licenses	Sales	Interest Earnings	Total		
1905	\$39,508 20	\$10,567 88		\$471 95		\$50,638 03		\$4,464 00			\$4,464 00	\$55,062 03
1906	41,564 96	2,908 38		264 62		45,122 96		3,766 70			3,766 70	48,869 66
1907	38,538 10	9,158 18				47,696 28		4,264 90			4,264 90	51,961 18
1908	39,884 40	3,819 57				43,703 97		2,389 80			2,389 80	46,066 77
1909	40,902 00	17,069 36				57,971 36		4,021 65			4,021 65	61,993 01
1910	46,942 90	5,331 91	\$110 70	16 80		51,274 81		1,186 00			1,186 00	52,460 81
1911	49,174 90	14,370 19			\$1,010 83	64,555 92		3,602 35			3,602 35	68,218 27
1912	57,762 10	6,190 47				63,952 57	\$90 00	1,032 75			1,032 75	65,015 32
1913	56,519 25	32,406 74	23 10	17 50	6,716 37	94,681 96		2,585 90			2,585 90	97,327 86
1914	59,421 70	9,594 16		63 57	2,917 75	71,969 14		574 57			574 57	72,578 71
1915 (8 months)	48,166 91	29,853 02	1 96		352 25	78,590 83		2,660 86			2,660 86	81,506 69
1916	45,767 01	35,856 05	655 76	54 38	1,418 76	83,752 56		2,970 38		\$114 23	2,970 38	84,846 17
1917 (4 months)	1,835 46	9,235 93	3 00		949 40	12,054 16						12,054 16
1918	56,751 76	65,118 71	20,236 46	234 50	3,981 94	146,823 87		5,545 70	61 76		5,702 55	152,025 92
1919	48,119 04	36,965 01	12,801 81	237 25	4,387 25	102,011 36		507 34			507 34	102,528 70
1920	52,833 33	45,573 91	16,667 44	237 00	6,913 54	122,225 22		7,870 00	68 38		7,938 38	130,228 60
1921	47,484 87	27,917 02	2,842 92	630 68	7,295 14	86,170 63		5,491 75	112 70		5,604 45	91,855 08
1922	50,587 96	124,004 48	606 79	134 63	71 41	175,465 27		5,717 98	1,805 51		7,523 49	183,053 76
1922	39,192 97	95,115 65	915 92	3,003 39	3,027 71	141,245 64		2,354 52	1,377 80		3,732 32	145,102 96

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LICENSES ISSUED.  
Fiscal Year 1922.

	PUGET SOUND		COLUMBIA RIVER		GRAYS HARBOR		WILLAPA HARBOR		ALL DISTRICTS COMBINED	
	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected
<b>FISHING LICENSES—</b>										
Pound net.....	194	\$9,700 00							194	\$9,700 00
First class pound net.....		\$30 00							78	1,950 00
Second class pound net.....		25 00							78	1,950 00
Pound net.....	150	2,385 00	78	\$1,950 00					159	2,385 00
Stationary fish wheel.....		35 00			47	\$705 00	32	\$480 00	79	1,185 00
Scow fish wheel.....		25 00	15	525 00					15	525 00
Set net.....	37	138 75	8	200 00					8	200 00
Gill net.....	119	1,093 30	163	611 25	183	686 25	12	45 00	395	1,481 25
Drag seine.....		7 50 and 1c	471	5,106 35	62	487 70	27	227 50	679	6,913 85
Purse seine.....	106	751 17	42	1,175 34					150	1,926 51
Reef net.....	123	3,382 50	3	82 50			1	27 50	127	3,492 50
Set line.....	8	40 00							8	40 00
Hook and line.....	63	63 00	52	52 00			2	2 00	117	117 00
Dip bag net.....	163	330 00	120	258 00	6	12 00	3	6 00	308	606 00
Smelt drag bag net.....	1 00 and 3c	4 00	78	78 00					82	82 00
Brush weir.....	51	319 01							51	319 01
Bean trawl.....	4	100 00							4	100 00
Clams and mussels.....	15	150 00							15	150 00
Clam bait.....	121	121 00	18	18 00	1,222	1,222 00	343	343 00	1,704	1,704 00
Crabs.....	15	15 00			4	4 00	16	16 00	35	35 00
Gill net extension.....	119	119 00	1	1 00	14	14 00	51	51 00	185	185 00
Drag seine extension.....		.01 per ft.		12 70						12 70
Smelt drag bag net extension.....		.02 per ft.		6 00						6 00
Puget Sd. pound net No. 102 double header.....		.08 per ft.		5 40						5 40
Totals.....	1,146	\$16,424 88	1,217	\$12,460 14	1,538	\$3,130 95	487	\$1,198 00	4,388	\$33,213 97

\* This Puget Sound pound net increased to double header upon payment of \$50.00.

**LICENSES ISSUED—Concluded.**  
**Fiscal Year 1922.**

	PUGET SOUND		COLUMBIA RIVER		GRAYS HARBOR		WILLAPA HARBOR		ALL DISTRICTS COMBINED	
	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected	Number Licenses	Amount Collected
<b>DEALERS AND MISCELLANEOUS LICENSES—</b>										
Buyer's.....	42	\$42 00	37	\$37 00	1	\$1 00	1	\$1 00	81	\$81 00
Scow buyer's.....	50 00		10	500 00					10	500 00
Retail dealer.....	1 00	438 00	287	287 00	58	59 00	17	17 00	749	739 00
Wholesale dealer.....	10 00	400 00	140	1,400 00	11	110 00	8	80 00	199	1,990 00
Broker.....	10 00	5 00			1	10 00			6	60 00
Freezer.....	10 00	180 00		40 00	2	20 00			24	240 00
Hallbut dealer.....	5 00	125 00			2	10 00			27	135 00
Codfish, canning and curing.....	5 00	5 00							1	5 00
By-products, manufacturing.....	25 00	3 75 00							3	75 00
Private hatchery.....	25 00	6 150 00		150 00					12	300 00
Private hatchery product dealer.....	2 50	3 7 50		2 50					4	10 00
Hotel serving private hatchery product.....	1 00	5 00		2 00					7	7 00
Permit to collect birds.....	1 00								12	12 00
<b>Totals.....</b>	<b>584</b>	<b>\$1,475 50</b>	<b>487</b>	<b>\$2,418 50</b>	<b>76</b>	<b>\$210 00</b>	<b>38</b>	<b>\$110 00</b>	<b>1,185</b>	<b>\$4,214 00</b>
<b>CANNERY LICENSES—</b>										
Salmon.....	15	\$275 00	9	\$225 00	7	\$175 00	2	\$50 00	33	\$825 00
Shell fish.....	4	60 00	2	30 00	20	300 00	6	90 00	32	480 00
<b>Totals.....</b>	<b>19</b>	<b>\$335 00</b>	<b>11</b>	<b>\$255 00</b>	<b>27</b>	<b>\$475 00</b>	<b>8</b>	<b>\$140 00</b>	<b>65</b>	<b>\$1,305 00</b>
<b>MISCELLANEOUS RECEIPTS—</b>										
1921 Licenses.....	96	\$135 00	80	\$147 00	124	\$159 00	4	\$18 00	313	\$469 00
<b>RECAPITULATION—</b>										
Fishing licenses.....	1,146	\$16,424 88	1,217	\$12,460 14	1,538	\$8,130 95	487	\$1,198 00	4,388	\$33,213 97
Dealers and miscellaneous licenses.....	584	1,475 50	487	2,418 50	76	210 00	38	110 00	1,185	4,214 00
Cannery licenses.....	19	435 00	11	255 00	27	475 00	8	140 00	65	1,305 00
1921 Licenses.....	96	135 00	80	147 00	124	159 00	4	18 00	313	469 00
<b>GRAND TOTALS.....</b>	<b>1,845</b>	<b>\$18,471 38</b>	<b>1,804</b>	<b>\$15,280 64</b>	<b>1,765</b>	<b>\$8,974 95</b>	<b>537</b>	<b>\$1,463 00</b>	<b>5,951</b>	<b>\$39,123 97</b>

YEARLY COMPARATIVE TABLE OF LICENSES ISSUED.

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922
<b>PUGET SOUND DISTRICT</b>																		
<b>FISHING LICENSES—</b>																		
Pound net, double head.....	1	258	277	219	231	231	268	300	311	270	297	275	280	250	259	243	222	191
Pound net.....	574	618	806	806	813	829	836	859	877	458	458	559	541	638	646	686	439	318
Set net.....	348	310	329	362	366	403	459	377	437	544	512	449	537	417	540	364	346	110
Gill net.....	69	123	176	283	242	307	307	243	258	354	187	189	218	185	187	144	116	106
Drag seine.....	91	79	64	69	95	127	137	169	252	288	362	275	420	204	258	172	252	123
Purse seine.....																		
Reef net.....																		
Set line.....																		
Hook and line.....																		
Small drug bag net.....																		
Smelt and herring.....																		
Brush weir.....																		
Beam trawl.....																		
Clams and mussels.....																		
Clams for bait.....																		
Crabs.....																		
Totals.....	1,341	1,407	1,544	1,782	1,621	1,741	2,016	1,953	2,035	1,914	2,337	2,093	3,305	3,043	3,416	2,375	2,008	1,146
<b>DEALERS AND MISC. LICENSES—</b>																		
Buyer's.....																		
Snow buyer's.....																		
Retail dealers.....	67	161	224	240	233	253	263	269	290	351	426	346	300	680	771	583	440	489
Wholesale dealer.....																		
Brokers.....																		
Prozers.....																		
Hallbut wholesale dealer or broker.....																		
Codfish canning and curing.....																		
By-product manufacturing.....																		
Private hatchery.....	1	5	3	4	4	2	2	1	3	5	5	2	2	2	2	2	2	2
Private hatchery, private dealer.....																		
Total serving private hatchery product.....																		
Permit to collect birds.....																		
Totals.....	68	166	227	247	249	262	269	269	310	398	539	437	634	907	974	778	603	584
<b>MISCELLANEOUS RECEIPTS.</b>																		
<b>CANNERY LICENSES.</b>																		
	24	13	14	10	23	14	22	22	32	22	45	38	52	41	43	23	26	19

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YEARLY COMPARATIVE TABLE OF LICENSES ISSUED--Continued.

	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922
<b>PUGET SOUND DISTRICT--</b>																	
Continued.																	
<b>RECAPITULATION--</b>																	
Fishing licenses.....	1,341	1,407	1,544	1,621	1,741	2,016	1,963	2,085	1,914	2,337	2,003	3,305	3,043	3,416	2,315	2,038	1,146
Dealers and miscellaneous licenses.....	68	166	227	249	262	269	289	310	368	639	437	634	907	974	778	584	584
Miscellaneous receipts.....												1	9	55	7	26	96
Totals.....	1,409	1,573	1,771	2,049	2,003	2,285	2,222	2,345	2,282	2,976	2,530	3,940	3,950	4,445	3,100	2,782	1,828
Cannery licenses.....	24	13	14	10	23	14	22	32	22	45	38	52	41	43	23	28	19
Grand Totals.....	1,433	1,586	1,785	2,059	2,017	2,307	2,244	2,377	2,304	2,921	2,568	3,992	4,000	4,488	3,123	2,810	1,845
<b>COLUMBIA RIVER DISTRICT</b>																	
<b>FISHING LICENSES--</b>																	
First class pound net.....	23	25	20	21	18	30	27	17	14	20	33	74	131	132	126	92	78
Second class pound net.....	351	365	322	274	232	244	247	230	242	228	225	208	139	145	144	132	159
Stationary fish wheel.....	9	10	15	15	14	11	15	16	17	12	17	17	17	17	18	16	15
Scow fish wheel.....	4	7	4	4	6	6	7	9	11	9	10	11	8	10	9	9	8
Gill net.....	79	120	102	142	214	230	301	221	272	218	194	200	199	231	200	150	103
Chit net.....	444	646	630	846	768	677	738	586	401	676	633	601	527	517	488	523	471
Drag seine.....	60	35	47	30	30	27	23	25	45	39	36	46	46	45	40	37	42
Purse seine.....		1	8	2	3	1				6	19	24	30	43	64	56	3
Set line.....										13	27						52
Hook and line.....												167	232	330	266	176	129
Bag net.....									143	3	210	262	190	118	125	96	78
Smeit and herring.....										92			2				
Beam trawl.....																	
Chams and mussels.....																	
Chams for bait.....																	
Crabs.....																	
Totals.....	970	1,247	1,143	1,376	1,078	1,216	1,332	1,104	1,150	1,337	1,417	1,642	1,513	1,563	1,517	1,349	1,217

YEARLY COMPARATIVE TABLE OF LICENSES ISSUED—Continued.

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	
<b>COLUMBIA RIVER DISTRICT—</b>																			
Continued.																			
<b>DEALERS AND MISC. LICENSES—</b>																			
Buyers.....	20	19	10	7	3	5	3	3	12	14	.....	3	6	9	8	13	11	37	
Scow buyers.....	108	80	79	98	141	209	216	212	225	243	260	230	237	185	191	208	199	287	
Retail dealer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Wholesale dealer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Broker.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Haibut wholesale dealer or broker.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Freezer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
By-product, manufacturing.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Private hatchery.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Private hatchery product dealer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hotel serving private hatchery product.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Permit to collect birds.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Totals.....	134	98	95	106	144	214	219	215	237	257	276	258	284	225	241	259	241	487	
<b>MISCELLANEOUS RECEIPTS.....</b>																			
<b>CANNERY LICENSES.....</b>																			
.....	9	8	7	6	6	6	6	6	.....	2	.....	.....	4	7	3	7	.....	89	
<b>RECAPITULATION—</b>																			
Fishing licenses.....	970	1,247	1,143	1,376	1,257	1,078	1,216	1,332	1,104	1,150	1,337	1,417	1,642	1,513	1,593	1,517	1,849	1,217	
Dealers and miscellaneous licenses.....	134	98	95	106	144	214	219	215	237	257	276	258	284	225	241	259	241	487	
Miscellaneous receipts.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Totals.....	1,104	1,346	1,238	1,481	1,401	1,292	1,435	1,547	1,341	1,409	1,613	1,675	1,926	1,745	1,857	1,793	1,590	1,798	
<b>Cannery licenses.....</b>																			
.....	9	8	7	6	6	6	6	6	.....	8	12	7	9	10	9	9	9	11	
Grand Totals.....	1,113	1,354	1,245	1,487	1,407	1,298	1,441	1,553	1,347	1,417	1,625	1,682	1,939	1,756	1,846	1,792	1,599	1,804	

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YEARLY COMPARATIVE TABLE OF LICENSES ISSUED—Continued.

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	
<b>GRAYS HARBOR DISTRICT</b>																			
<b>FISHING LICENSES—</b>																			
Pound net.....	16	20	21	17	18	21	32	42	38	32	31	36	53	52	48	49	47	47	
Set net.....	75	114	100	100	60	110	240	302	255	249	136	141	276	316	349	290	242	183	
Gill net.....	68	63	54	36	30	79	111	72	65	117	80	113	105	94	117	45	60	62	
Drag seine.....					1		4	7	13	12	4		3	2	1		2		
Purse seine.....																			
Set line.....											1								
Hook and line.....													13	25	72	29	36	76	
Clams and mussels.....											618	347	284	304	476	418	608	1,222	
Clams for bait.....																			
Crabs.....											38	8	13	10	5	15	11	14	
Totals.....	159	197	175	153	98	210	387	423	372	410	908	645	749	893	1,068	851	1,007	1,538	
<b>DEALERS AND MISC. LICENSES—</b>																			
Buyer's.....												2	1	2	4	5	3	1	
Scow buyer's.....						3	2	3	7	4									
Retail dealer.....						14	16	12	37	39	28	38	31	42	48	50	41	50	
Wholesale dealer.....	1	7	6	5	7	14	16	12	37	39	28	38	31	42	48	50	41	50	
Freezer.....											8	11	11	9	14	14	11	12	
Hallbut wholesale dealer or broker.....													1						
Totals.....	1	7	9	6	10	16	19	15	44	43	36	51	44	53	66	69	55	76	
<b>MISCELLANEOUS RECEIPTS.....</b>																			
													10	4	83	43	90	124	
<b>CANNERY LICENSES.....</b>																			
	2	2	1	1	1	3	5	6	8	7	8	19	21	21	20	14	21	27	
<b>RECAPITULATION—</b>																			
Fishing licenses.....	159	197	175	153	98	210	387	423	372	410	908	645	749	893	1,068	851	1,007	1,538	
Dealers and miscellaneous licenses.....	1	7	9	6	10	16	19	15	44	43	36	51	44	53	66	69	55	76	
Miscellaneous receipts.....													10	4	83	43	90	124	
Totals.....	160	204	184	159	108	226	406	438	416	453	944	696	808	940	1,217	963	1,152	1,738	
<b>Cannery licenses.....</b>																			
	2	2	1	1	1	3	5	6	8	7	8	19	21	21	20	14	21	27	
Grand Totals.....	162	206	185	160	109	229	411	444	424	460	952	715	824	881	1,237	977	1,173	1,765	

YEARLY COMPARATIVE TABLE OF LICENSES ISSUED—Continued.

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	
<b>WILLAPA HARBOR DISTRICT</b>																			
<b>FISHING LICENSES—</b>																			
Pound net.....	50	74	45	51	42	40	51	67	33	44	50	53	48	62	68	64	55	32	
Set net.....	36	52	53	64	65	152	109	231	109	171	81	101	222	184	174	174	95	12	
Gill net.....	5	2	17	16	15	14	80	65	29	52	46	54	84	58	76	32	43	27	
Drag seine.....		3	1	3	7	3	4					1			2	58	78	1	
Purse seine.....																10	16	6	
Hook and line.....												3	2	9	10	1	1	5	
Bag net.....											164	134	43	62	164	206	285	343	
Clams and mussels.....											19	13	18	19	13	22	10	16	
Clams for bait.....											160	129	90	56	52	55	66	51	
Crabs.....																			
Totals.....	91	131	116	134	129	209	424	423	171	267	501	475	583	449	551	579	603	487	
<b>DEALERS AND MISC. LICENSES—</b>																			
Buyers.....													9	5	8	2	2	1	
Retail dealer.....						17	13	7	6	14	13	13	11	16	23	23	23	17	
Wholesale dealer.....			1	2	4	4	17	13	7	6	19	14	10	10	17	15	15	8	
Permit to collect birds.....																		12	
Totals.....			1	2	4	17	13	7	6	14	37	27	30	31	48	40	40	38	
<b>MISCELLANEOUS RECEIPTS.</b>																			
<b>CANNERY LICENSES.</b>																			
<b>RECAPITULATION—</b>																			
Fishing licenses.....	91	131	116	134	129	209	424	423	171	267	501	475	583	449	551	579	603	487	
Dealers and miscellaneous licenses.....			1	2	4	17	13	7	6	14	37	27	30	31	48	40	40	38	
Miscellaneous receipts.....													4	4	10	4	5	4	
Totals.....	91	131	117	136	133	226	437	430	177	281	538	502	617	484	619	623	648	529	
Cannery licenses.....	2	2	2	2	1	1	2	3	2	2	2	5	5	5	9	6	5	8	
Grand Totals.....	93	133	119	138	134	227	439	433	179	283	540	507	622	489	628	629	653	537	

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YEARLY COMPARATIVE TABLE OF LICENSES ISSUED—Continued.

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	
ALL DISTRICTS COMBINED																			
FISHING LICENSES—																			
Pound net.....	689	761	630	626	587	600	647	712	620	602	610	620	644	636	647	626	560	510	
Fish wheel.....	13	17	22	19	20	18	17	22	26	28	27	28	28	25	27	27	25	23	
Set net.....	764	904	1,010	1,123	962	1,142	1,372	1,683	1,392	1,150	994	977	1,356	1,845	1,440	1,024	771	385	
Gill net.....	845	1,041	1,020	1,200	1,150	1,069	1,257	1,272	1,107	1,114	1,314	1,249	1,827	1,006	1,250	929	972	679	
Drag seine.....	129	179	224	339	280	287	342	273	276	411	368	294	283	235	285	184	185	150	
Purse seine.....	91	80	72	78	97	136	138	169	252	288	16	13	13	301	345	386	127	127	
Reef net.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hook and line.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	87	81	.....	.....	.....	.....	.....	.....	
Bag net.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Smelt drag bag net.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Smelt and herring.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Brush weir.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Beam trawl.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Clams and mussels.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Clams for bait.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Crabs.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Totals.....	2,561	2,982	2,978	3,445	3,105	3,238	4,043	4,131	3,682	3,741	5,082	4,630	6,279	5,808	6,638	5,202	5,062	4,388	
DEALERS AND MISC. LICENSES—																			
Buyer's.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Scow buyer's.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Retail dealer.....	26	19	19	8	6	7	6	6	19	18	32	27	178	118	134	72	103	81	
Wholesale dealer.....	176	248	310	354	385	403	508	491	561	647	4	627	639	923	983	894	703	760	
Broker.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Freezer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Halibut wholesale dealer or broker.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Codfish, canning and curing.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
By product manufacturing.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Private hatchery.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Private hatchery product dealer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Hotel serving private hatchery product.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Permit to collect birds.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Totals.....	208	272	332	380	407	500	520	506	507	682	888	773	992	1,216	1,329	1,146	899	1,185	

YEARLY COMPARATIVE TABLE OF LICENSES ISSUED—Concluded.

	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	
ALL DISTRICTS COMBINED— Continued.																			
*MISCELLANEOUS RECEIPTS.....	37	25	24	19	31	24	35	37	48	39	67	69	87	77	81	52	68	65	313
CANNERY LICENSES.....										2									
RECAPITULATION—																			
Fishing licenses.....	2,561	2,982	2,978	3,445	3,106	3,238	4,043	4,131	3,682	3,741	5,083	4,630	6,279	5,806	6,638	5,262	5,062	4,393	4,989
Dealers and miscellaneous licenses.....	218	272	332	380	407	509	520	506	507	682	888	773	992	1,216	1,229	1,146	999	1,185	999
Miscellaneous receipts.....										2			19	24	151	61	121	313	313
Totals.....	2,764	3,254	3,310	3,825	3,512	3,747	4,563	4,637	4,279	4,425	5,971	5,403	7,290	7,048	8,118	6,469	6,172	5,886	5,886
Cannery licenses.....	37	25	24	19	31	24	35	37	48	39	67	69	87	77	81	52	68	65	313
Grand Totals.....	2,801	3,279	3,334	3,844	3,543	3,771	4,598	4,674	4,327	4,464	6,038	5,472	7,377	7,125	8,199	6,521	6,235	5,951	5,951

\* This item represents receipts which were issued in lieu of licenses, upon payment of license fees, to persons who had operated the previous year without securing licenses as required by law.

CATCH OF SALMON AND VALUE.  
Fiscal Year 1922.

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	Number Dog or Chum Salmon	Number Humpback Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>PUGET SOUND DISTRICT—</b>							
Pound nets.....	186,945	89,427	26,353	463,397	399,431	5,938	1,171,491
Set nets.....	320	72	.....	1,177	.....	.....	1,575
Gill nets.....	11,412	6,572	291	29,591	9,394	.....	57,260
Drug seines.....	3,796	4	577	613	.....	.....	12,868
Purse seines.....	5,184	405,905	5,067	370,810	88,277	606	875,839
Reef nets.....	8	250	11	3,164	682	.....	4,115
Set lines.....	688	.....	.....	3,226	.....	.....	382
Hook and lines.....	.....	.....	.....	.....	10	31	23,965
Totals.....	206,350	502,230	32,280	892,360	505,551	6,696	2,147,485
Value.....	\$500,061 00	\$87,800 25	\$3,228 90	\$312,326 00	\$303,330 60	\$8,035 20	\$1,214,872 95
<b>(COLUMBIA RIVER DISTRICT—</b>							
First class pound nets.....	31,486	5,300	.....	34,811	9,631	27,192	102,420
Second class pound nets.....	21,663	11,073	.....	30,384	16,000	23,647	122,677
Stationary fish wheels.....	4,035	.....	.....	.....	31,228	2,016	37,980
Scow fish wheels.....	4,784	.....	.....	.....	1,228	.....	17,378
Set nets.....	1,750	250	26	700	7,879	4,953	16,407
Gill nets.....	71,621	3,630	.....	13,543	48,209	18,974	154,496
Drug seines.....	8,377	404	.....	14,032	9,704	12,122	38,798
Hook and lines.....	4,900	.....	.....	54,024	129	.....	59,156
Dip bag nets.....	62	.....	.....	.....	111	4	177
Totals.....	148,687	20,672	26	161,643	134,729	81,697	547,454
Value.....	\$892,533 09	\$3,100 80	\$2 00	\$56,035 05	\$74,100 95	\$86,568 82	\$612,871 80

CATCH OF SALMON AND VALUE—Concluded.

Fiscal Year 1922.

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	Number Dog or Chum Salmon	Number Humpback Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>GRAYS HARBOR DISTRICT—</b>							
Pound nets.....	15,926	29,451	.....	48,274	.....	282	93,483
Set nets.....	2,453	22,025	.....	25,780	117	1,422	51,797
Gill nets.....	11,222	19,671	.....	26,002	.....	30	57,925
Hook and lines.....	508	.....	.....	1,480	.....	.....	2,078
Totals.....	30,199	71,147	.....	102,136	117	1,734	206,333
Value.....	\$53,150 24	\$10,672 05	.....	\$85,747 60	\$64 35	\$1,560 60	\$101,194 84
<b>ULLAPA HARBOR DISTRICT—</b>							
Pound nets.....	1,003	3,576	.....	3,130	.....	.....	7,709
Set nets.....	2	12	.....	62	.....	114	190
Gill nets.....	3,441	8,679	.....	1,859	.....	.....	13,979
Hook and lines.....	.....	.....	.....	136	.....	.....	136
Totals.....	4,446	12,297	.....	5,187	.....	114	22,014
Value.....	\$7,824 96	\$1,840 05	.....	\$1,815 45	.....	\$102 60	\$11,588 06
<b>ALL DISTRICTS COMBINED—</b>							
Pound nets.....	257,023	138,827	29,353	600,006	424,962	51,059	1,498,230
Stationary fish wheels.....	4,035	.....	.....	.....	31,938	2,016	37,980
Scow fish wheels.....	4,754	.....	.....	700	11,228	695	17,378
Set nets.....	4,531	22,395	39	28,542	7,996	6,480	69,669
Gill nets.....	97,696	38,503	291	72,104	57,618	17,004	283,259
Drag seines.....	12,173	408	577	6,732	17,461	12,243	49,594
Purse seines.....	5,184	405,905	5,957	370,810	88,277	606	875,830
Reef nets.....	8	250	11	3,164	682	.....	4,115
Set lines.....	6,105	.....	.....	382	.....	.....	6,487
Hook and lines.....	62	.....	.....	78,806	139	154	85,354
Dip bag nets.....	.....	.....	.....	.....	111	4	117
Totals.....	391,691	606,316	32,315	1,161,326	640,397	90,241	2,922,286
Value.....	\$653,570 48	\$103,503 15	\$3,231 50	\$406,324 10	\$377,465 90	\$96,237 23	\$1,940,622 35

\* Value based on average price paid fishermen.

YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES.

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>PUGET SOUND DISTRICT—</b>							
<b>1913</b>							
Pound nets.....	212,507	159,473	11,353,709	731,329	11,549,669	17,137	24,023,824
Gill nets.....	77,537	445,384	4,554,001	493,786	10,049,295	26,148	15,646,151
Set nets.....							
Drag seines.....							
Purse seines.....							
Totals.....	290,044	604,857	15,907,710	1,225,115	21,598,964	43,285	39,669,975
<b>1914</b>							
Pound nets.....	224,397	254,154	25,888	479,155	2,107,398	25,833	3,116,825
Gill nets.....	201,582	1,431,983	49,603	1,020,151	1,344,004	38,785	4,086,108
Set nets.....							
Drag seines.....							
Purse seines.....							
Totals.....	425,979	1,686,137	75,491	1,499,306	3,451,402	64,618	7,202,933
<b>1915</b>							
Pound nets.....	244,011	180,180	2,907,463	525,356	583,729	17,510	4,468,249
Gill nets.....	24,334	93,151	35,983	127,327	18,913	4,809	304,577
Set nets.....	6,969	21,495	38,030	63,784	2,476	5,885	138,639
Drag seines.....	2,910	20,541	2,271	6,099	58	58	31,937
Purse seines.....	22,634	1,566,895	4,361,203	382,750	197,569	10,130	6,541,131
Hook and lines.....	18						18
Reef nets.....	192	827	23,238	3,070	1,640		28,967
Drag bag nets.....	124	1,055	525	510			2,214
Totals.....	301,192	1,884,144	7,368,713	1,108,806	804,385	38,452	11,505,782
<b>1916</b>							
Pound nets.....	244,011	180,181	9,294	525,356	583,729	17,511	1,560,082
Gill nets.....	24,334	93,151	1,591	127,327	18,913	4,870	270,186
Set nets.....	6,970	21,496	478	63,785	2,476	5,885	101,001
Drag seines.....	2,911	20,541	33	6,099	58	58	29,700
Purse seines.....	22,635	1,566,895	56,702	382,750	197,570	10,130	2,236,682
Hook and lines.....	192	828		3,071	1,641		5,732
Reef nets.....	125	1,055		510			1,690
Drag bag nets.....							
Totals.....	301,178	1,884,147	68,068	1,108,898	804,387	38,455	4,205,163
<b>1917</b>							
Pound nets.....	285,484	131,804	4,426,436	485,631	2,849,345	12,573	8,191,273
Gill nets.....	77,581	84,818	134,470	96,082	113,669	3,133	509,753
Set nets.....	13,622	16,098	9,417	44,476	286	10,191	94,090
Drag seines.....	4,181	27,973	4,536	12,650	938	10	50,297
Purse seines.....	38,155	832,922	8,711,055	232,703	1,069,191	2,184	11,806,210
Hook and lines.....	21,792	580	1,288	58,089	946	42	82,898
Reef nets.....	49	820	57,978	6,611	7,558		73,016
Totals.....	440,864	1,095,015	13,345,280	986,242	4,961,933	28,133	20,897,467
<b>1918</b>							
Pound nets.....	381,450	173,782	60,181	703,173	495,910	11,958	1,826,463
Set nets.....	15,121	26,446	554	97,796	154	8,316	148,387
Gill nets.....	28,946	93,638	1,518	178,810	17,652	2,453	333,017
Drag seines.....	964	59,788	23	24,681	77		85,593
Purse seines.....	14,781	799,833	3,097	513,973	45,073	11,915	1,388,679
Reef nets.....	1,515	914	12,448	12,694	2,036		29,547
Hook and lines.....	24,437	190	28	106,406	529	8	131,548
Drag bag nets.....	3	2,050		52			2,105
Totals.....	477,246	1,156,571	77,849	1,637,525	561,431	34,650	3,945,272

**YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Continued.**

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>PUGET SOUND DISTRICT—Concluded</b>							
1919							
Pound nets.....	257,638	185,292	2,081,944	711,429	453,965	11,818	3,702,066
Set nets.....	9,823	30,000	5,431	72,491	60	8,529	126,334
Gill nets.....	47,022	62,938	37,584	129,895	4,803	2,275	284,517
Drag seines.....	726	80,835		12,113			83,674
Purse seines.....	12,250	1,112,404	2,513,521	427,586	283,660	1,868	4,351,289
Reef nets.....	962	3,404	29,042	9,639	3,210	50	46,307
Hook and lines.....	19,345	47	298		996	158	20,844
Bag nets.....		171					171
<b>Totals.....</b>	<b>347,766</b>	<b>1,475,001</b>	<b>4,667,820</b>	<b>1,363,153</b>	<b>746,694</b>	<b>24,698</b>	<b>8,625,222</b>
1920							
Pound nets.....	217,245	111,433	13,753	247,651	566,304	9,837	1,195,223
Set nets.....	7,953	5,658	33	39,634	464	5,475	59,217
Gill nets.....	22,482	19,534	157	70,920	3,241	2,565	118,899
Drag seines.....	123	5,073		2,370		2	7,568
Purse seines.....	17,715	541,213	4,943	158,467	53,083	14	775,435
Reef nets.....	60	143	13	2,361	313		2,800
Hook and lines.....	6,348	16	667	49,102	208	226	55,567
<b>Totals.....</b>	<b>271,926</b>	<b>683,070</b>	<b>19,546</b>	<b>569,506</b>	<b>652,613</b>	<b>18,119</b>	<b>2,214,799</b>
1921							
Pound nets.....	224,099	32,414	1,967,899	293,409	859,596	5,086	3,382,503
Set nets.....	4,833	3,252					8,085
Gill nets.....	26,910	20,323	87,271	101,989	48,404	56	284,953
Drag seines.....	415	471	17,131	1,556	3,195		22,768
Purse seines.....	9,063	211,198	2,303,006	334,904	221,152	709	3,079,784
Reef nets.....	56	334	19,289	3,749	2,626		26,084
Hook and lines.....	3,616	2,201	429	26,662		3	32,911
Bag nets.....			6,500	252	500		7,261
<b>Totals.....</b>	<b>268,982</b>	<b>270,193</b>	<b>4,401,516</b>	<b>762,221</b>	<b>1,135,473</b>	<b>5,914</b>	<b>6,844,299</b>
1922							
Pound nets.....	196,945	89,427	26,353	463,397	399,431	5,988	1,171,491
Set nets.....	326	72		1,177			1,575
Gill nets.....	11,412	6,572	291	29,591	9,394		57,260
Drag seines.....	3,796	4	577	613	7,757	121	12,848
Purse seines.....	5,184	405,905	5,057	370,810	88,277	606	875,839
Reef nets.....	8	250	11	8,164	682		4,115
Set lines.....				382			382
Hook and lines.....	689			23,226	10	31	23,955
<b>Totals.....</b>	<b>208,359</b>	<b>502,230</b>	<b>32,280</b>	<b>892,360</b>	<b>505,551</b>	<b>6,696</b>	<b>2,147,485</b>
<b>COLUMBIA RIVER DISTRICT—</b>							
1913							
Pound nets.....	99,660	25,667	5,621	169,280	56,288	33,972	395,488
Fish wheels.....							
Gill nets.....							
Set nets.....							
Drag seines.....	362,670	42,065		100,360	38,856	93,014	636,965
<b>Totals.....</b>	<b>462,330</b>	<b>67,732</b>	<b>5,621</b>	<b>269,640</b>	<b>95,144</b>	<b>131,986</b>	<b>1,032,453</b>
1914							
Pound nets.....	142,378	29,359	2,509	178,306	140,893	79,028	572,473
Fish wheels.....							
Gill nets.....							
Set nets.....							
Drag seines.....	453,811	180,320	4,731	185,847	199,553	60,982	1,085,244
<b>Totals.....</b>	<b>596,189</b>	<b>209,679</b>	<b>7,240</b>	<b>364,153</b>	<b>340,446</b>	<b>140,010</b>	<b>1,657,717</b>



YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Continued.

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>COLUMBIA RIVER DISTRICT—Continued.</b>							
1915							
Pound nets.....	174,921	35,016	4,710	89,898	11,701	60,889	377,135
Stationary fish wheels..	8,441			59	25,980	5,880	39,860
Scow fish wheels.....	5,199				6,546	641	12,386
Gill nets.....	129,162	19,775	1,249	10,251	4,347	21,571	186,354
Set nets.....	2,659	1,006	433	919	1,158	4,199	10,374
Drag seines.....	32,890	323	37	4,200	7,646	16,547	61,646
Purse seines.....	14,095	3,593	35,360	8,252	402	9,421	71,173
Totals.....	367,367	59,716	41,779	113,579	57,840	118,647	758,928
1916							
Pound nets.....	174,921	35,016	2,940	89,898	11,702	60,889	374,466
Stationary fish wheels..	8,442			60	25,979	5,880	39,861
Scow fish wheels.....	5,199				6,547	641	12,387
Gill nets.....	129,163	19,776	2,261	10,252	4,347	21,571	187,370
Set nets.....	2,660	1,006	121	918	1,157	4,199	10,060
Drag seines.....	32,891	327		4,200	7,647	16,548	61,613
Purse seines.....	14,095	3,593		8,253	402	9,422	35,325
Totals.....	367,371	59,717	4,422	113,581	57,841	118,650	721,582
1917							
First class pound net...	71,798	7,321	61	33,068	3,378	23,894	139,490
Second class pound net.	58,412	19,148	37	46,927	2,237	17,623	144,384
Stationary fish wheels..	11,668				34,524	5,565	54,757
Scow fish wheels.....	7,609				10,359	890	18,858
Gill nets.....	461,810	37,260	1,029	24,112	11,442	69,667	605,320
Set nets.....	7,015	4,468	405	509	3,896	7,379	23,792
Drag seines.....	24,009	1,593		19,565	2,311	14,890	62,368
Purse seines.....	11,583	246	34,634	3,698	9,484	677	60,232
Hook and lines.....	26,479	29		14,851	750	133	42,242
Bag nets.....	79						79
Totals.....	680,462	70,065	36,226	142,700	78,381	143,688	1,151,522
1918							
First class pound net...	80,228	8,491	172	74,146	11,882	40,847	215,766
Second class pound net.	15,639	3,196		22,087	6,189	13,155	60,266
Stationary fish wheels..	6,690				59,552	5,005	71,247
Scow fish wheels.....	2,965			11	42,231	1,671	46,878
Set nets.....	4,682	1,028	6,518	1,890	21,195	7,782	43,695
Gill nets.....	217,422	32,792	3,080	51,793	106,823	49,003	461,503
Drag seines.....	21,384	700	227	6,983	13,569	19,321	62,684
Purse seines.....	43,278		385	24,318	187	3,480	71,648
Hook and lines.....	58,369	20		62,726	1,149	199	122,463
Drag bag nets.....	126			26		101	253
Totals.....	450,783	46,827	10,382	243,970	262,777	141,694	1,156,403
1919							
First class pound net...	64,785	23,636	17	50,850	5,627	31,144	176,059
Second class pound net.	23,499	8,022		15,770	2,043	11,859	62,098
Stationary fish wheels..	7,374				11,010	2,196	20,580
Scow fish wheels.....	6,618				7,196	717	14,531
Set nets.....	3,028	3,253	10	465	3,397	3,491	14,154
Gill nets.....	162,586	72,711	741	22,385	11,421	26,824	296,698
Drag seines.....	24,439	57	32	13,128	9,404	14,037	61,097
Purse seines.....	76,819			16,290	332	1,161	94,603
Hook and lines.....	54,918		500	80,395	876	254	136,913
Totals.....	424,000	108,579	1,300	199,253	51,217	91,683	876,698

YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Continued.

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>COLUMBIA RIVER DISTRICT—Concluded.</b>							
1920	54,961	28,029		23,197	964	16,388	123,574
First class pound net...	17,061	5,940		8,508	967	6,989	39,465
Second class pound net.	6,019				13,262	5,419	24,699
Stationary fish wheels.	5,175				5,167	1,463	11,805
Scow fish wheels.	3,141	496		389	1,296	3,027	8,338
Set nets.	154,544	5,233		6,962	2,158	16,237	185,029
Gill nets.	18,206	1,750		4,772	2,559	10,493	37,870
Drag seines.	39,833	1,127		4,045	26	1,725	46,556
Purse seines.	51,554	217		30,524	32	185	88,512
Hook and lines.							
Totals.	350,393	42,791		84,297	28,428	61,871	565,778
1921	36,910	1,200	21	32,732	1,316	21,409	93,588
First class pound net...	11,850	500	1	15,789	1,753	11,467	41,360
Second class pound net.	7,206				17,051	2,648	26,915
Stationary fish wheels.	3,016				7,227	665	10,908
Scow fish wheels.	1,837	88	4	1,247	1,646	2,632	7,504
Set nets.	102,142	296	2,922	6,618	6,440	18,573	136,991
Gill nets.	7,897	5	300	2,736	112	5,949	16,999
Drag seines.	15,653		835	179	790	332	17,788
Purse seines.	13,503	6		59,343	8	175	73,035
Hook and lines.							
Totals.	200,014	2,095	4,083	118,643	36,359	63,900	425,088
1922	31,486	5,300		34,811	9,631	21,192	102,420
First class pound net...	21,663	11,073		50,394	15,900	23,647	122,677
Second class pound net.	4,035				31,938	2,016	37,989
Stationary fish wheels.	4,784			700	11,228	666	17,378
Scow fish wheels.	1,750	256	26	1,543	7,379	4,953	16,407
Set nets.	71,621	3,639		14,052	48,209	16,974	154,495
Gill nets.	8,377	404		6,119	9,704	12,122	36,726
Drag seines.	4,909			54,024	129	123	59,185
Hook and lines.	62				111	4	177
Dip bag nets.							
Totals.	148,687	20,672	26	161,643	134,729	81,697	547,454
<b>GRAYS HARBOR DISTRICT—</b>							
1913							
Pound nets.	5,601	19,447		53,942		288	79,278
Gill nets.							
Set nets.	79,046	53,092	38,844	35,315	263,198	86,494	555,989
Drag seines.							
Totals.	82,647	72,539	38,844	89,257	263,198	86,782	635,287
1914							
Pound nets.	17,878	24,972	347	48,824	639	8,858	101,518
Gill nets.							
Set nets.	16,865	107,752	85	151,615	80,814	18,131	375,262
Drag seines.							
Totals.	34,743	132,724	432	200,439	81,453	26,989	476,790
1915							
Pound nets.	23,471	35,728		41,666	82	1,018	101,965
Gill nets.	12,609	32,763	73	17,963	21	985	64,474
Set nets.	7,072	15,983		14,777	28	1,992	39,852
Drag seines.	673	17		2,300			2,999
Totals.	43,825	84,491	73	76,715	131	3,995	209,290

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**YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Continued.**

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>GRAYS HARBOR DISTRICT—Concluded.</b>							
1916							
Pound nets.....	23,471	35,728	1,028	41,666	82	1,018	102,993
Gill nets.....	12,070	32,763	300	17,062	22	984	64,761
Set nets.....	7,071	15,982		14,776	28	1,902	39,849
Drag seines.....	672	17		2,300			2,998
Totals.....	43,884	84,490	1,388	76,713	132	3,994	210,601
1917							
Pound nets.....	16,636	15,702		35,186		2,227	69,751
Gill nets.....	18,884	8,428		14,071	120	422	41,925
Set nets.....	13,491	19,048	8	39,008	3	3,608	75,286
Hook and lines.....	449			1,899			2,348
Totals.....	49,460	43,178	8	90,224	123	6,317	189,310
1918							
Pound nets.....	2,307	2,865		9,212		7	14,391
Set nets.....	7,666	11,992	161	54,630	326	3,354	78,129
Gill nets.....	18,903	12,782		70,595	825	515	103,620
Hook and lines.....	510	111		5,695			6,316
Totals.....	29,386	27,750	161	140,132	1,151	3,876	202,456
1919							
Pound nets.....	8,666	65,899		23,295		1,088	98,948
Set nets.....	9,178	65,386	4,205	35,199	662	5,105	119,735
Gill nets.....	6,780	52,839		37,050		414	97,092
Drag seines.....	5						5
Hook and lines.....	2,317						2,317
Totals.....	26,946	184,124	4,205	95,553	662	6,607	318,097
1920							
Pound nets.....	13,034	13,887		35,526		1,067	63,514
Set nets.....	4,318	2,882	150	19,697	30	3,413	30,490
Gill nets.....	9,732	1,953		10,011	1,006	419	32,120
Hook and lines.....	667			119			786
Totals.....	27,751	18,722	150	74,353	1,036	4,899	126,910
1921							
Pound nets.....	12,967	5,069		32,377		136	50,579
Set nets.....	4,953	3,748	79	13,978	194	2,198	25,150
Gill nets.....	18,031	9,821	295	30,616	1,372	12	60,147
Hook and lines.....	1,774			2,704			4,538
Totals.....	37,725	18,668	374	79,735	1,566	2,346	140,414
1922							
Pound nets.....	15,926	29,451		48,274		282	93,933
Set nets.....	2,453	22,025		25,780	117	1,422	51,797
Gill nets.....	11,222	19,671		26,692		30	57,525
Hook and lines.....	598			1,480			2,078
Totals.....	30,199	71,147		102,136	117	1,734	205,833
<b>WILLAPA HARBOR DISTRICT—</b>							
1913							
Pound nets.....	1,023	22,445		13,347			37,715
Gill nets.....							
Set nets.....	3,802	42,243		11,537		6,449	64,031
Totals.....	5,725	64,688		24,884		6,449	101,749

**YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Continued.**

DISTRICT, AND GEAR WITH WHICH TAKEN	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>WILLAPA HARBOR DISTRICT—Concluded.</b>							
1914							
Pound nets.....	8,561	16,336	66	21,716	1,278	800	48,847
Gill nets.....	11,527	45,968		44,272		180	101,986
Set nets.....							
Totals.....	20,088	62,334	66	65,988	1,278	1,079	150,833
1915							
Pound nets.....	16,831	46,440	531	27,102		191	91,095
Gill nets.....	6,513	4,750		4,939		103	16,296
Set nets.....	4,912	14,988		6,459	415	388	27,112
Totals.....	28,256	66,128	531	38,491	415	682	134,503
1916							
Pound nets.....	16,832	46,440	362	27,102		191	90,927
Gill nets.....	6,512	4,750		4,931		102	16,295
Set nets.....	4,911	14,989	1,866	6,460	416	388	28,980
Totals.....	28,255	66,129	2,228	38,493	416	681	136,202
1917							
Pound nets.....	11,054	37,076		24,568		1,041	73,739
Gill nets.....	10,352	13,232	42	8,451		171	32,248
Set nets.....	4,088	31,457		8,998	85	825	45,423
Hook and lines.....	2			381			383
Totals.....	25,496	81,765	42	42,308	85	2,037	151,793
1918							
Pound nets.....	8,204	22,066		42,234		14	72,518
Set nets.....	1,315	16,361		22,418	94	560	40,757
Gill nets.....	6,064	5,080		17,027	3	43	28,217
Hook and lines.....	74			506			580
Totals.....	15,657	43,507		82,185	97	626	142,072
1919							
Pound nets.....	6,694	96,938		21,773	526	55	125,986
Set nets.....	3,455	38,311	20	9,046		1,338	52,170
Gill nets.....	42,142	29,078		12,900		271	84,391
Drag seines.....	5						5
Hook and lines.....	1			57			58
Totals.....	52,297	164,327	20	43,776	526	1,664	262,610
1920							
Pound nets.....	6,251	10,544		5,979		11	22,885
Set nets.....	1,586	335		949		621	3,491
Gill nets.....	2,481	163		1,473		114	4,231
Purse seines.....	110,138			5,165	3	3,799	119,105
Hook and lines.....	744			6			750
Totals.....	121,300	11,042		13,572	3	4,545	150,462
1921							
Pound nets.....	8,900	8,878		11,144		17	29,698
Set nets.....	3,290	3,110	434	3,026	95	274	10,238
Gill nets.....	5,831	1,875	7	3,716	2	7	11,438
Purse seines.....	73,718		6,298	1,397	868	2,562	84,843
Hook and lines.....	141			321			462
Totals.....	91,958	13,863	6,739	19,604	965	2,860	135,980
1922							
Pound nets.....	1,003	3,576		3,130			7,709
Set nets.....	2	12		62		114	190
Gill nets.....	3,441	8,679		1,859			13,979
Hooks and lines.....				136			136
Totals.....	4,446	12,267		5,187		114	22,014

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YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Continued.

YEAR AND GEAR	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>ALL DISTRICTS COMBINED—</b>							
1913							
Pound nets.....	319,661	227,082	11,359,330	967,806	11,606,957	56,397	24,536,305
Fish wheels.....							
Gill nets.....							
Set nets.....	523,055	582,794	4,592,845	640,998	10,351,349	212,105	16,903,136
Drag seines.....							
Purse seines.....							
Totals.....	842,746	809,816	15,952,175	1,608,806	21,957,306	268,502	41,439,441
1914							
Pound nets.....	393,214	324,921	23,810	728,001	2,250,208	114,609	3,839,668
Fish wheels.....							
Gill nets.....							
Set nets.....	683,785	1,766,053	54,419	1,401,885	1,624,371	118,067	5,648,600
Drag seines.....							
Purse seines.....							
Totals.....	1,076,999	2,090,874	88,229	2,129,886	3,874,579	232,696	9,488,268
1915							
Pound nets.....	459,234	297,364	2,912,704	684,022	595,512	79,608	5,028,444
Fish wheels.....							
Gill nets.....							
Set nets.....	36,473	20,884	2,308	12,608	7,704	16,606	98,682
Drag seines.....							
Purse seines.....							
Hook and lines.....	18						18
Reef nets.....	192	827	23,238	3,070	1,640		28,967
Drag bag nets.....	124	1,055	525	510			2,214
Totals.....	740,700	2,094,479	7,411,096	1,337,681	862,771	161,778	12,608,508
1916							
Pound nets.....	259,235	297,365	12,724	684,022	595,513	79,609	2,128,468
Fish wheels.....							
Gill nets.....							
Set nets.....	36,474	20,885	33	12,608	7,706	16,606	94,311
Drag seines.....							
Purse seines.....							
Reef nets.....	192	828		3,071	1,641		5,782
Drag bag nets.....	125	1,055		510			1,690
Totals.....	740,688	2,094,483	76,136	1,337,685	862,776	161,790	5,273,548
1917							
Pound nets.....	443,384	211,051	4,426,534	625,380	2,854,960	57,328	8,618,637
Fish wheels.....							
Gill nets.....							
Set nets.....	38,216	71,071	9,890	93,081	4,270	22,063	238,591
Drag seines.....							
Purse seines.....							
Hook and lines.....	48,722	609	1,388	75,211	1,696	175	127,801
Reef nets.....	49	820	57,978	6,611	7,568		73,016
Bag nets.....	79						79
Totals.....	1,196,282	1,290,023	13,381,556	1,211,534	5,040,522	180,175	22,300,092
1918							
Pound nets.....	487,837	210,400	60,353	850,852	513,981	65,961	2,189,404
Fish wheels.....							
Set nets.....							
Gill nets.....	281,335	144,292	4,566	318,215	125,303	52,614	926,357
Drag seines.....							
Purse seines.....							
Hook and lines.....	83,410	251	28	175,333	1,678	207	260,907
Reef nets.....	129	2,050		78		101	2,358
Drag bag nets.....							
Totals.....	973,072	1,274,655	88,392	2,103,812	825,456	180,816	5,446,203

**YEARLY COMPARATIVE TABLE OF SALMON CATCH, SEGREGATED AS TO GEAR AND SPECIES—Concluded.**

YEAR AND GEAR	Number Chinook Salmon	No. Dog or Chum Salmon	Number Hump-back Salmon	Number Silver Salmon	Number Sockeye Salmon	Number Steelhead Salmon	Totals
<b>ALL DISTRICTS COMBINED—Concluded.</b>							
<b>1919</b>							
Pound nets.....	361,282	380,687	2,081,961	823,117	462,161	55,964	4,165,172
Fish wheels.....	13,992				18,206	2,913	35,111
Set nets.....	26,084	136,950	9,666	117,201	4,029	18,463	312,393
Gill nets.....	258,530	217,566	38,525	202,239	16,224	29,784	762,668
Drag seines.....	25,175	80,862	32	25,241	9,404	14,037	154,781
Purse seines.....	89,069	1,112,404	2,513,521	443,876	288,968	3,029	4,445,892
Reef nets.....	962	3,404	29,042	9,639	3,210	50	46,307
Hook and lines.....	76,581	47	798	80,422	1,872	412	160,132
Drag bag nets.....		171					171
<b>Totals.....</b>	<b>851,675</b>	<b>1,982,121</b>	<b>4,673,345</b>	<b>1,701,735</b>	<b>799,099</b>	<b>124,652</b>	<b>10,082,627</b>
<b>1920</b>							
Pound nets.....	308,662	169,833	13,753	320,861	597,255	34,237	1,444,601
Fish wheels.....	11,193				18,419	6,882	36,494
Set nets.....	16,968	9,370	183	60,660	1,780	12,536	101,536
Gill nets.....	180,239	26,883	157	98,296	6,399	19,335	340,279
Drag seines.....	18,419	6,823		7,142	2,559	10,495	45,438
Purse seines.....	167,486	542,340	4,943	167,677	53,112	5,538	941,096
Reef nets.....	60	143	13	2,361	313		2,890
Hook and lines.....	59,313	233	667	84,751	240	411	145,615
<b>Totals.....</b>	<b>771,370</b>	<b>755,625</b>	<b>19,716</b>	<b>741,727</b>	<b>680,077</b>	<b>89,434</b>	<b>3,057,949</b>
<b>1921</b>							
Pound nets.....	294,795	48,091	1,967,921	385,451	862,665	38,115	3,597,638
Fish wheels.....	10,222				24,288	3,313	37,823
Set nets.....	14,922	10,198	517	18,251	1,935	5,154	59,977
Gill nets.....	152,914	32,315	90,466	142,989	56,218	18,648	493,529
Drag seines.....	8,312	476	17,431	4,292	3,307	5,949	39,767
Bag nets.....			6,509	252	500		7,261
Purse seines.....	98,424	211,198	2,310,141	336,179	222,810	3,663	3,182,415
Reef nets.....	56	334	19,269	3,749	2,626		26,034
Hook and lines.....	19,034	2,207	429	89,090	8	178	110,946
<b>Totals.....</b>	<b>598,679</b>	<b>304,819</b>	<b>4,412,712</b>	<b>989,203</b>	<b>1,174,357</b>	<b>75,020</b>	<b>7,545,790</b>
<b>1922</b>							
Pound nets.....	257,023	138,827	26,353	600,006	424,962	51,059	1,498,230
Stationary fish wheels.....	4,035				31,938	2,016	37,989
Scow fish wheels.....	4,784			700	11,228	666	17,378
Set nets.....	4,531	22,365	26	28,562	7,996	6,489	69,969
Gill nets.....	97,690	38,561	291	73,104	57,603	17,004	283,250
Drag seines.....	12,173	408	577	6,732	17,461	12,243	49,594
Purse seines.....	5,184	405,905	5,067	370,310	88,277	606	875,839
Reef nets.....	8	250	11	3,164	682		4,115
Set lines.....				382			382
Hook and lines.....	6,195			78,866	139	154	85,354
Dip bag nets.....	62				111	4	177
<b>Totals.....</b>	<b>391,691</b>	<b>606,316</b>	<b>32,315</b>	<b>1,161,329</b>	<b>640,397</b>	<b>90,241</b>	<b>2,922,286</b>

**CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE.**  
Fiscal Year 1922.

DISTRICT, AND GEAR WITH WHICH TAKEN	Pounds of Carp	Pounds of Clams and Mussels	Number of Crabs	Pounds of Cod	Pounds of Devil Fish	Pounds of Dog Fish	Pounds of Dolly Varden Trout	Pounds of Flounders	Pounds of Halibut	Pounds of Herring	Pounds of Perch
<b>PUGET SOUND DISTRICT—</b>											
Pound net.....				15,914	329			6,211	286		530
Set net.....				2,767				106			1,838
Gill net.....				1,025	700	80	300	925			26,643
Drag seine.....				4,694	215			10,313		83,464	3,193
Purse seine.....	467			224				2,362			
Reef net.....											
Hook and line.....				15,884	8,275	1,165			5,773		
Dip bag net.....				96				153		56,651	6,380
Smelt drag bag net.....				7,524				69,400		74,000	
Beam trawl.....											80
Brush weir.....				33,438	6,739	24,219		2,235	4,717		
Set line.....											
Clam.....		441,184									
Clam bait.....		17,680									
Crab.....			452,479								
Totals.....	467	458,864	452,479	81,568	16,258	25,464	300	91,715	10,776	214,115	28,664
Value.....	\$18 68	\$11,471 60	\$47,510 30	\$2,936 45	\$812 90	\$48 92	\$42 00	\$917 15	\$1,293 12	\$2,141 15	\$1,933 20
<b>PUGET SOUND DISTRICT—Concluded</b>											
Pound net.....					218	2,000					
Set net.....											
Gill net.....				41				3,060			55
Drag seine.....				415		34	1,680	125,632	35,226		100
Purse seine.....									681	1	606
Reef net.....											
Hook and line.....			54			24			3		
Dip bag net.....								3,716			
Smelt drag bag net.....								68,304	45,066		
Beam trawl.....					100				33,850		
Brush weir.....											
Set line.....		1,864	351	200		1,184					
Totals.....		1,865	405	656	318	3,242	51,913	201,792	114,796	1	761
Value.....	\$67 30	\$32 80	\$40 50	\$32 80	\$19 06	\$32 42	\$10,392 60	\$18,161 28	\$3,443 86	\$2 80	\$15 22

**CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE--Continued.**  
**Fiscal Year 1922.**

DISTRICT, AND GEAR WITH WHICH TAKEN	Pounds of Carp	Pounds of Clams and Mussels	Number of Crabs	Pounds of Dog Fish	Pounds of Flounders	Pounds of Shad	Pounds of Smelt	Number of Sturgeon	Pounds of All Other Food Fish
<b>COLUMBIA RIVER DISTRICT--</b>									
First class pound net.....					114	8,012		452	
Second class pound net.....						5,046		546	
Stationary fish wheel.....						17,138		60	
Scow fish wheel.....						83		25	
Set net.....						1,396		186	228
Gill net.....				200		28,192	5,250	3,342	4,966
Drag seine.....	622,007					74,442		50	
Set line.....								280	100
Hook and line.....								4	
Dip bag net.....								5	
Clam.....		25,865					746,973		
Totals.....	622,007	25,865		200	114	135,109	752,223	4,959	4,994
Value.....	\$24,883 88	\$721 63		\$0 40	\$1 14	\$8,106 54	\$15,044 46	\$23,803 20	\$69 88
<b>GRAYS HARBOR DISTRICT--</b>									
Pound net.....								126	
Set net.....								12	
Gill net.....								62	
Hook and line.....									
Crab.....			65,689						
Clam.....		2,195,013							
Clam butt.....		4,000							
Totals.....		2,199,013	65,689					201	
Value.....		\$76,986 46	\$0,886 85					\$603 00	
<b>WILLAPA HARBOR DISTRICT--</b>									
Pound net.....									
Set net.....									
Gill net.....									
Crab.....			117,007						
Clam.....		737,653							
Clam butt.....		40,380							
Totals.....		777,983	117,007					102	
Value.....		\$67,229 41	\$12,285 74					\$806 00	

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## CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE—Continued.

Fiscal Year 1922.

DISTRICT AND GEAR WITH WHICH TAKEN	Pounds of Carp	Pounds of Clams and Mussels	Number of Crabs	Pounds of Cod	Pounds of Devil Fish	Pounds of Dog Fish	Pounds of Varden Trout	Pounds of Flounders	Pounds of Halibut	Pounds of Herring	Pounds of Perch
ALL DISTRICTS COMBINED—											
Round net.....				15,914	329			6,325	286		
Stationary fish wheel.....											
Snow fish wheel.....				2,767				100			530
Set net.....				1,025	700	280		925			1,828
Gill net.....	622,097			4,694	215		300	10,313		83,464	21,043
Drag seine.....	407			224				2,362			3,188
Purse seine.....											
Reef net.....											
Hook and line.....				15,884	8,275	1,166			5,773		
Dip bag net.....				98				163		56,651	6,380
Smelt drag bag net.....				7,824				69,400			
Beam trawl.....											
Brush weir.....											
Set line.....				38,438	6,739	24,219		2,235	4,717		80
Clam.....		3,408,315									
Clam bait.....		62,010									
Crab.....			635,075								
Totals.....	622,564	3,405,325	635,075	81,568	16,258	25,664	300	91,829	10,776	214,115	38,664
Value.....	\$24,902 56	\$116,409 10	\$0,682 80	\$2,986 45	\$612 90	\$49 32	\$42 00	\$918 29	\$1,253 12	\$2,141 15	\$1,853 20

CATCH OF FOOD AND SHELL FISH (OTHER THAN SALMON), AND VALUE—Concluded.

Fiscal Year 1922.

DISTRICT, AND GEAR WITH WHICH TAKEN	Pounds of Red Snapper	Pounds of Sand Dabs	Pounds of Sea Bass	Pounds of Shad	Pounds of Skate	Pounds of Shrimp	Pounds of Smelt	Pounds of Sole	Number of Sturgeon	Pounds of All Other Food Fish
ALL DISTRICTS COMBINED—Concluded.										
Pound net.....				13,876	2,000				1,124	
Stationary fish wheel.....				17,138					60	
Scow fish wheel.....				83					25	
Set net.....			41	1,596					198	228
Gill net.....			415	28,192	34	1,030	8,300		3,577	4,771
Drag seine.....				74,442			126,632	35,226	50	100
Purse seine.....				1				681	1	606
Reef net.....									4	
Hook and line.....	1	54			24				5	
Dip bag net.....							750,630			
Smelt drag bag net.....				100			68,304	45,033		
Beam trawl.....						50,883		33,850		
Brush weir.....			200							
Set line.....	1,864	351			1,184				280	100
Clam.....										
Clam bait.....										
Crab.....										
Totals.....	1,865	405	656	135,427	3,242	51,913	964,015	114,796	5,263	5,755
Value.....	\$37 30	\$40 50	\$32 80	\$8,125 62	\$32 42	\$10,382 60	\$63,205 74	\$3,443 88	\$24,715 00	\$115 10

## FOOD AND SHELL FISH CANNED.

Fiscal Year 1922.

	Number of 48-lb. Cases	Value
<b>PUGET SOUND DISTRICT—</b>		
Chinook salmon.....	21,911	\$214,909 60
Dog or chum salmon.....	66,746	297,873 60
Humpback salmon.....	2,985	18,645 00
Silver salmon.....	115,406	674,927 50
Sockeye salmon.....	50,235	850,415 60
Clams.....	5,533	43,874 58
Clam nectar.....	60	195 00
Crabs.....	125	3,000 00
Other food and shell fish.....	3,800	3,000 00
Totals.....	266,805	\$2,106,840 88
<b>COLUMBIA RIVER DISTRICT—</b>		
Chinook salmon.....	99,096	\$1,360,663 56
Dog salmon.....	7,609	40,982 51
Silver salmon.....	28,580	191,500 20
Sockeye salmon.....	17,568	252,878 30
Steelhead salmon.....	8,047	72,214 85
Shad.....	1,003	7,177 00
Other food and shell fish.....	12	240 00
Totals.....	161,915	\$1,925,656 42
<b>GRAYS HARBOR DISTRICT—</b>		
Chinook salmon.....	207	\$888 00
Dog salmon.....	14,315	57,196 80
Humpback salmon.....	150	660 00
Silver salmon.....	5,206	23,859 80
Sockeye salmon.....	19,213	302,168 00
Clams.....	67,958	507,983 10
Clam nectar.....	430	2,639 00
Totals.....	107,479	\$895,334 20
<b>WILLAPA HARBOR—</b>		
Chinook salmon.....	1,168	\$6,167 60
Dog salmon.....	2,289	8,578 80
Humpback salmon.....	56	224 00
Silver salmon.....	1,549	10,259 60
Clams.....	12,445	94,873 06
Clam nectar.....	471	4,239 00
Totals.....	17,978	\$124,342 06
<b>ALL DISTRICTS COMBINED—</b>		
Chinook salmon.....	122,382	\$1,582,628 76
Dog salmon.....	90,959	404,621 71
Humpback salmon.....	3,191	19,529 00
Silver salmon.....	150,740	900,547 10
Sockeye salmon.....	87,016	1,406,461 90
Steelhead salmon.....	8,047	72,214 85
Clams.....	85,941	646,689 74
Clam nectar.....	961	7,073 00
Crabs.....	125	3,000 00
Shad.....	1,003	7,177 00
Other food and shell fish.....	3,812	3,240 00
Totals.....	554,177	\$5,052,174 06

YEARLY COMPARATIVE TABLE OF FOOD AND SHELL FISH CANNED.

	NUMBER FORTY-EIGHT POUND CASES															
	PUGET SOUND DISTRICT						NUMBER FORTY-EIGHT POUND CASES					NUMBER FORTY-EIGHT POUND CASES				
	Chinook	Dog	Humpback	Silver	Soekeye	Steel-head	Totals	Clams and Mussels	Crabs	Shad	Other Food and Shell Fish	Grand Totals				
1890.	13,495	4,000		4,000			8,000									
1895 (Spring)	26,550			82,640	72,979		169,114									
1895 (Fall)	11,200			96,600	252,000		361,800									
1899.	24,500		254,000	102,500	512,500		883,500									
1900.	33,350			128,500	229,800		391,650									
1902.	30,049	93,492		85,817	372,301		581,659									
1903.	14,500	32,001	181,326	168,450	167,211		478,488									
1904.	17,990	32,494		117,845	107,943		296,272									
1905.	1,804	41,057	70,682	79,335	825,453		1,018,641	3,500				1,022,141				
1907.	8,139	149,219	49,497	94,472	178,748		430,692	8,550	1,950			440,702				
1908.	95,210	47,607	433,423	119,472	93,122		698,080	8,850	1,250			708,180				
1909.	22,233	58,174	6,075	128,922	170,951		448,765	8,200	1,100			458,065				
1910.	10,064	146,949	349,449	130,032	972,180		1,592,068	5,000				1,597,068				
1911.	21,680	101,880	1,050,538	235,323	948,014		1,567,883	8,900	1,150			1,577,283				
1912.	22,081	69,739	1,202	157,117	102,442		1,451,573	6,200	12,000			1,469,773				
1913.	1,805	55,736	802,040	62,492	1,692,942		2,558,046	8,200				2,566,246				
1914.	27,140	290,476	62,042	158,929	639,736		1,117,350	5,000				1,122,350				
1915 (8 months)	28,942	422,728	580,192	185,521%	85,430%		1,311,813	873				1,312,686				
1916.	26,942	308,445	198,706	148,824	82,349%	14	795,572%	3,529	45			799,046%				
1917 (4 months)	18,130	165,749	3,006	60,145	6,316		237,544	524	14			238,068				
1917.	70,013	214,977	1,130,05	119,800	454,356	4	1,990,258	19,966	003		6,074	2,016,991				
1918.	62,800%	437,704%	6,070	235,793	32,387%		622,732	7,944	177			630,653				
1919.	71,100	590,987	437,000%	201,690%	67,067	28	1,307,733	3,789	619		3,585	1,315,725				
1920.	47,821	25,321	373,000	95,667	62,171	62	168,334	3,524	154			172,012				
1921.	25,682	27,315	373,000	65,303	95,667	28	589,847	4,810	40		11,243	16,068				
1922.	21,911	66,746	2,366	113,405	50,235		237,262	5,538	125		3,800	9,523				

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YEARLY COMPARATIVE TABLE OF FOOD AND SHELL FISH CANNED—Continued.

COLUMBIA RIVER DISTRICT	NUMBER FORTY-EIGHT POUND CASES							NUMBER FORTY-EIGHT POUND CASES					
	Chinook	Dog	Humpback	Silver	Socketeye	Steel-head	Totals	Clams and Mussels	Clam Nectar	Crabs	Shad	Other Food and Shell Fish	Grand Totals
1890. (Spring)	167,060						167,060						
1896 (Fall)	371,391				16,985	40,739	429,175						
1898.	78,450			44,008	15,645	8,700	59,810						
1899.	86,300			17,210	9,620	6,470	111,525						
1900.	91,500			19,460	7,720	8,380	119,600						
1902.	77,910	10,233		4,435	4,235		98,813						
1903.	76,900	10,000		4,400	4,140		95,440						
1904.	130,688	26,380		26,380	4,227		179,813						
1905.	120,598	18,283		18,071	914		157,866						
1906.	103,272	19,414		25,262	316		148,264						
1907.	87,292	18,175		36,469	364		142,370						
1908.	83,522	12,811		17,077	680	5,188	114,000						
1909.	55,374	6,993		21,160	11,577	2,478	100,202						
1910.	68,465	16,573		41,283	2,440	9,440	119,598						
1911.	81,255	22,204		23,883	1,250	6,296	175,548						
1912.	77,946	18,092		29,507	3,190	6,936	124,324						
1913.	66,808	18,002		30,072	1,226	3,683	105,797						
1914.	66,808	27,648		30,072	1,063	3,683	127,297						
1915. (6 months)	150,262½	37,408		30,074	1,345½	11,378½	226,300½			2,170			227,500½
1916.	92,820	8,608	56	6,713	31	3,030	141,269			975			142,244
1917. (4 months)	146,510	14,589		15,699	2,801	6,063	185,562			1,707	200		187,469
1918.	128,068	12,173		37,945	19,480	6,989	221,579			3,174			224,753
1919.	140,319	39,279	2,117	84,927	2,329	7,148	213,868			4,017			217,885
1920.	104,319	4,911		7,398	1,297	4,877	138,502			4,843			143,345
1921.	104,340	4,641		8,454	2,674	8,950	125,073			4,635		6	127,714
1922.	99,066	7,609		23,580	17,568	8,047	160,901			1,003	12		1,015

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YEARLY COMPARATIVE TABLE OF FOOD AND SHELL FISH CANNED—Continued.

GRAYS HARBOR DISTRICT	NUMBER FORTY-EIGHT POUND CASES							NUMBER FORTY-EIGHT POUND CASES				
	Chinook	Dog	Humpback	Silver	Socketeye	Steel-head	Totals	Clams and Mussels	Crabs	Shad	Other Food and Shell Fish	Grand Totals
1890 (None packed)							21,274					
1896	7,816	4,180		9,278			9,800					
1898	5,100			7,300			12,800					
1899	5,500			12,900			19,800					
1900	6,700			10,000			31,500					
1902	4,000	17,500										
1903 (None packed)												
1904	4,330	10,500		11,570			26,600					
1906	2,050	7,000		13,000			22,000					22,000
1906	2,500	8,000		11,500			14,000					14,000
1907	1,000	3,500		9,500			14,000					14,000
1908	1,000	3,500		9,500			14,000					14,000
1909	2,000	500		10,000	1,500		14,000	10,000				24,000
1910	15,495	13,847		21,768			51,130	27,787				78,917
1911	11,650	22,435		43,297			87,272	21,408				108,680
1912	12,502	21,364		21,435			58,981	33,025				92,006
1913	2,196	9,495		8,620			43,968	50,862				94,830
1914	5,888	19,922	4,496	22,552		55	72,110	29,492				101,602
1915 (8 months)	5,888	23,861	4,034	15,016 $\frac{1}{2}$		496	71,977	15,339	1,600			87,908
1916	11,629	29,839	3,746	11,308	10,069		68,616	19,647				88,263
1917 (4 months)	3,642 $\frac{1}{2}$	3,602	50	1,986 $\frac{1}{2}$	216		9,497	11,208 $\frac{1}{2}$				20,705 $\frac{1}{2}$
1917	13,518	12,888	11,279	13,568	4,530	129	55,942	15,516	99		463	72,119
1918	10,088 $\frac{1}{2}$	5,373	1,273	29,512	2,469 $\frac{1}{2}$	15	49,611	20,728	30			70,369
1919	5,185	30,193	1,750	13,632	235	11	51,482	35,458	153			87,093
1920	861 $\frac{1}{2}$	207 $\frac{1}{2}$		412 $\frac{1}{2}$	235		1,535 $\frac{1}{2}$	58,188	12			58,188
1921	1,308	2,746		2,834			6,896	59,334	416		6,300	66,050
1922	207	14,315	150	5,206	19,213		39,091	67,968	430			68,398

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YEARLY COMPARATIVE TABLE OF FOOD AND SHELL FISH CANNED—Continued.

WILLAPA HARBOR DISTRICT	NUMBER FORTY-EIGHT POUND CASES							NUMBER FORTY-EIGHT POUND CASES					
	Chinook	Dog	Humpback	Silver	Socketeye	Steel-head	Totals	Clams and Mussels	Clam Nectar	Crabs	Shad	Other Food and Shell Fish	Grand Totals
1890 (None packed)							24,941						14,950
1896	4,551	8,450		11,940			15,674						14,440
1898	5,965			9,869			16,580						13,382
1899	6,320			10,210			19,100						12,517
1900	6,700			12,400			39,492						25,497
1902	5,836	24,528		9,128			5,880						28,148
1903	2,300	1,200		2,390			25,500						18,995
1904	3,000	15,000		7,500			14,440						24,957
1905	4,650	6,000		4,300			13,382						14,509
1906	4,000	5,100		5,340			20,457						25,497
1907	3,530	624		9,228			12,517						17,452
1908	4,017	10,517		5,923			14,506						14,509
1909	2,650	6,397		3,470			25,497						28,148
1910	2,923	6,489		5,065			11,486						18,995
1911	5,717	10,482		9,298			16,837						13,473
1912	6,123		4,462	8,030			11,393		94				12,214
1913	67	8,872		2,547			8,172						10,381
1914	2,924	6,734		7,179			10,381						9,925
1915 (8 months)	3,842			2,214			8,379						10,291
1916	1,515	5,327		1,600			8,827						17,452
1917 (4 months)	3,602	5,014		1,765			3,290						6,113
1917	1,720	4,516		2,143			13,632		462				4,919
1918	921	2,057		5,249			5,106						12,916
1919	1,152	9,301	1,688	1,491			5,062						
1920	62	2,719	141	1,683									
1921	623	2,289	56	1,549									
1922	1,168												

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YEARLY COMPARATIVE TABLE OF FOOD AND SHELL FISH CANNED—Concluded.

ALL DISTRICTS COMBINED	NUMBER FORTY-EIGHT POUND CASES										NUMBER FORTY-EIGHT POUND CASES					
	NUMBER FORTY-EIGHT POUND CASES										NUMBER FORTY-EIGHT POUND CASES					
	Chinook	Dog	Humpback	Silver	Sockeye	Steel-head	Totals	Clams and Mussels	Crabs	Shad	Other Food and Shell Fish	Grand Totals				
1800.....	167,050	4,000	.....	4,000	.....	175,050	.....	.....	.....	.....	.....	.....				
1806.....	430,905	12,630	.....	147,826	80,964	49,409	.....	.....	.....	.....	.....	.....				
1808.....	100,615	.....	.....	121,959	267,645	8,680	.....	.....	.....	.....	.....	.....				
1809.....	122,620	.....	.....	137,220	523,120	6,470	.....	.....	.....	.....	.....	.....				
1900.....	127,310	.....	254,000	172,960	237,520	8,390	.....	.....	.....	.....	.....	.....				
1901.....	106,440	.....	.....	308,000	1,230,797	2,000	.....	.....	.....	.....	.....	.....				
1902.....	117,795	.....	.....	109,380	376,536	.....	.....	.....	.....	.....	.....	.....				
1903.....	93,700	.....	181,326	110,240	119,353	.....	.....	.....	.....	.....	.....	.....				
1904.....	156,298	.....	.....	163,305	119,170	.....	.....	.....	.....	.....	.....	.....				
1905.....	129,102	.....	70,992	114,706	896,967	.....	.....	.....	.....	.....	.....	.....				
1907.....	117,911	.....	.....	136,590	170,964	.....	.....	.....	.....	.....	.....	.....				
1908.....	93,696	.....	.....	174,699	96,498	.....	.....	.....	.....	.....	.....	.....				
1909.....	82,749	.....	433,923	171,432	171,623	.....	.....	.....	.....	.....	.....	.....				
1910.....	96,048	.....	346,149	164,662	963,692	.....	.....	.....	.....	.....	.....	.....				
1911.....	148,008	.....	1,060,308	349,176	142,803	.....	.....	.....	.....	.....	.....	.....				
1912.....	121,961	.....	.....	210,465	1,687,010	.....	.....	.....	.....	.....	.....	.....				
1913.....	82,074	.....	804,748	96,166	.....	.....	.....	.....	.....	.....	.....	.....				
1914.....	182,890	.....	5,312	217,735	399,768	.....	.....	.....	.....	.....	.....	.....				
1915 (8 months).....	183,714½	.....	593,229	213,354	112,266½	.....	.....	.....	.....	.....	.....	.....				
1916.....	196,346½	.....	142,644	181,801	93,794	.....	.....	.....	.....	.....	.....	.....				
1917 (4 months).....	232,296	.....	.....	170,606½	11,332½	.....	.....	.....	.....	.....	.....	.....				
1917.....	219,921	.....	1,141,442	147,590	461,667	.....	.....	.....	.....	.....	.....	.....				
1918.....	206,596	.....	7,980	306,302	74,597	.....	.....	.....	.....	.....	.....	.....				
1919.....	168,724½	.....	443,383½	251,746½	23,131½	.....	.....	.....	.....	.....	.....	.....				
1920.....	151,941	.....	4,921	32,131½	64,293	.....	.....	.....	.....	.....	.....	.....				
1921.....	122,382	.....	376,041	78,274	98,341	.....	.....	.....	.....	.....	.....	.....				
1922.....	.....	.....	3,191	180,740	87,016	.....	.....	.....	.....	.....	.....	.....				



**FOOD AND SHELL FISH, FRESH AND PRESERVED (OTHER THAN CANNED), AND VALUE.**  
Fiscal Year 1922.

	PUGET SOUND DISTRICT		COLUMBIA RIVER DISTRICT		GRAYS HARBOR DISTRICT		WILLAPA HARBOR DISTRICT		ALL DISTRICTS COMBINED	
	Number Pounds	Value	Number Pounds	Value	Number Pounds	Value	Number Pounds	Value	Number Pounds	Value
<b>FRESH—</b>										
Chinook salmon	1,977,184	\$214,092 80	129,191	\$14,898 88	4,876	\$873 12			2,111,251	\$229,894 80
Dog salmon	1,296,410	292,512 18	288	4 80					1,297,698	292,528 68
Humpback salmon	6,021	133 80			5,884	147 10			11,905	280 90
Silver salmon	1,287,088	56,326 35	138,120	4,864 20	26,840	689 40			1,452,048	62,109 95
Stockeye salmon	60,324	5,941 80	925	101 75	7,388	678 15			67,644	6,721 70
Steelhead salmon	27,816	8,712 80	26,070	2,763 42	15,980	1,439 10			69,904	7,915 32
Carp	9,700	108 00							9,700	108 00
Clams and mussels	182,270	4,731 75	50	1 25	542	180 70			182,862	5,014 58
Crabs	413,670	2,000 12			110,520	6,062 87			692,570	20,176 72
Cod fish	47,200	1,690 52							47,200	1,690 52
Devil fish	20,260	1,464 95							20,260	1,464 95
Dolly Varden trout	44,877	66 50			18	1 82			44,895	68 32
Flounders	74,124	448 77							74,124	448 77
Halibut	20,567	8,894 88							20,567	8,894 88
Herring	41,024	905 97							41,024	905 97
Trout	2,585	2,051 20							2,585	2,051 20
Red Snapper	602	51 70							602	51 70
Sand Dabs	114	69 20							114	69 20
Sea Bass	32	5 70							32	5 70
Shad	409	3 12	1,651	93 06					1,660	96 18
Skates	409	4 00							409	4 00
Shrimp	40,824	8,164 80							40,824	8,164 80
Smelt	162,663	14,588 37	667,450	13,349 00					829,543	27,667 57
Sole	11,062	332 76							11,062	332 76
Sturgeon	28,000	2,800 00	5,080	609 60					33,080	3,409 60
Other food fish	5,031	100 62			759	15 98			5,830	116 60
<b>Totals</b>	<b>5,768,517</b>	<b>\$651,718 75</b>	<b>968,725</b>	<b>\$36,585 96</b>	<b>174,008</b>	<b>\$10,788 94</b>	<b>177,568</b>	<b>\$10,699 61</b>	<b>7,088,908</b>	<b>\$409,793 26</b>
<b>PRESERVED—</b>										
Frozen	6,617,659	\$653,693 27	496,831	\$65,686 34	118,000	\$16,520 00			7,221,860	\$636,139 61
Kipperd	1,696,896	229,063 19							1,696,896	229,063 19
Mild cured	2,481,650	717,890 84	228,961	66,611 00					2,710,611	778,107 84
Saltd	90,461	7,253 27							90,461	7,253 27
Smoked	304,557	44,240 35							304,557	44,240 35
<b>Totals</b>	<b>11,400,623</b>	<b>\$1,552,082 92</b>	<b>715,802</b>	<b>\$129,297 34</b>	<b>118,000</b>	<b>\$16,520 00</b>			<b>12,224,115</b>	<b>\$1,694,880 26</b>
<b>Grand Totals</b>	<b>17,269,140</b>	<b>\$1,905,781 67</b>	<b>1,684,217</b>	<b>\$162,883 30</b>	<b>292,008</b>	<b>\$27,308 94</b>	<b>177,568</b>	<b>\$10,699 61</b>	<b>19,413,923</b>	<b>\$2,104,673 52</b>

**FISH BY-PRODUCTS.**  
**Fiscal Year 1922.**

OUTPUT	Quantity	Value
Oil .....	157,555 Gals.	\$50,528 39
Fertilizer .....	195 Tons	9,775 00
Fish meal .....	1,021 Tons	74,190 00
Total value.....		\$134,493 39
<b>APPROXIMATE AVERAGE PRICE—</b>		
Oil .....		\$0 32 per gal.
Fertilizer .....		50 13 per ton
Fish meal .....		72 66 per ton

**HALIBUT HANDLED BY DEALERS.**  
**Fiscal Year 1922.**

Fresh .....	1,300,144 pounds valued at \$1,336,599 47
Approximate average price.....	\$0.118 per pound

**CODFISH HANDLED BY DEALERS.**  
**Fiscal Year 1922.**

Cured .....	1,473,468 pounds valued at \$73,346 47
Approximate average price.....	\$0.049 per pound

**STATE OYSTER RESERVES.**

Plat	LOCATION	County	Acres
.....	Bay Center Reserves Nos. 1-2.....	Pacific.....	254.520
138 $\frac{1}{2}$	Cases Inlet Reserves Nos. 1-2-3.....	Mason.....	176.860
138	Clifton Reserves—1 to 6, 22-2 west and 1, 22-1 west...	Mason.....	523.194
137	Dewatto Bay Reserve No. 2.....	Mason.....	62.400
90	Dog Fish Bay Reserve—Poulsbo Tract No. 1.....	Kitsap.....	63.920
89	Dog Fish Bay Reserve—West of Keyport Tracts 1-2..	Kitsap.....	81.490
102	Eld Inlet Reserve.....	Thurston.....	46.990
130 $\frac{1}{2}$	Hamahama Reserve No. 1.....	Mason.....	44.058
.....	Hammersley Inlet Reserve—Reserves A-B, Old Reserve 1-2-3-4 .....	Mason.....	246.912
139	Hammersley Inlet Reserve—Reserve No. 5.....	Mason.....	5.760
133	Lilliwaup Bay Reserve—Nos. 1-2.....	Mason.....	40.004
.....	Long Island Slough Reserve.....	Pacific.....	578.832
.....	Long Island Reserve Ext.....	Pacific.....	5,990.255
.....	Nemah Reserve.....	Pacific.....	2,553.662
95	Oak Passage Reserve No. 1.....	Mason.....	23.132
59 $\frac{1}{2}$	Ostrich Bay Reserve.....	Kitsap.....	150.690
88	Ostrich Bay Reserve—Tracts 1-2.....	Kitsap.....	69.754
86	Ostrich Bay Reserve—Tracts 1-2-3.....	Kitsap.....	37.683
.....	Port Discovery Bay Reserve.....	Jefferson.....	133.740
87	Port Orchard Reserve—Tracts 1-2.....	Kitsap.....	122.500
132	Reserve East of Tahuyeh Bay—No. 7.....	Mason.....	14.530
136	Reserve opposite Chinom Point No. 2.....	Mason.....	21.046
134	Skykomish River Reserve—No. 1.....	Mason.....	22.680
135	Tahuyeh Bay Reserve—No. 1.....	Mason.....	37.689
99	Totten Inlet Reserve—10 lots.....	Thurston.....	711.963
.....	Totten Inlet Reserve Nos. 1-2.....	Thurston-Mason.....	24.093
.....	Totten Inlet Reserve "Pot Hole".....	Mason.....	9.015
135	Union City Reserve—No. 2.....	Mason.....	179.130
.....	Willapa River Reserve.....	Pacific.....	475.500
.....	Total.....		12,688.011

Number Licenses Issued to Take Oysters From State Reserves..... 5  
Fiscal Year 1922

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## OYSTERS SOLD FROM STATE RESERVES.

Fiscal Year 1922.

DISTRICT	Number of Sacks	Value
Clifton .....	779	\$584 25
Oyster Bay.....	79	158 00
Oakland Bay.....	353	706 00
North Bay.....	188.5	141 38
<b>Total.....</b>	<b>1,399.5</b>	<b>\$1,580 63</b>

## OYSTER INDUSTRY.

Fiscal Year 1922.

(Compiled from reports received from 21 companies or individuals in Puget Sound District, and 5 in Willapa Harbor District.)

	OYSTERS MARKETED		
	No. Sacks	Value	
<b>PUGET SOUND DISTRICT—</b>			
Native .....	22,833	\$249,529 20	
Eastern .....	2,524	27,130 80	
<b>Totals.....</b>	<b>25,357</b>		<b>\$276,660 00</b>
<b>WILLAPA HARBOR DISTRICT—</b>			
Native .....	277	\$1,871 00	
Eastern .....	3,238	34,668 19	
<b>Totals.....</b>	<b>3,515</b>		<b>\$36,539 19</b>
<b>ALL DISTRICTS COMBINED—</b>			
Native .....	23,110	\$251,400 20	
Eastern .....	5,702	61,798 99	
<b>Totals.....</b>	<b>28,812</b>		<b>\$318,199 19</b>

## AVERAGE VALUE OF OYSTERS PER SACK.

	Puget Sound District	Willapa Harbor District
Native .....	\$10 03	\$6 75
Eastern .....	10 75	10 70

## OYSTER LANDS.

DISTRICT	NUMBER OF ACRES				
	Owued	Leased	Native Producing	Eastern Producing	Total Producing
Puget Sound.....	868	15	439	10	449
Willapa Harbor.....	3,400	600	15	538	553
<b>Totals.....</b>	<b>4,268</b>	<b>615</b>	<b>454</b>	<b>548</b>	<b>1,002</b>

Valuations not obtainable on all of above lands. From the Puget Sound District nine reports show a valuation of \$278,955.00 on a total of 245 acres owned (an average value of \$1,138.60 per acre) and of this number 30 acres were under cultivation and valued at \$88,500.00.

From the Willapa Harbor District three reports show a valuation of \$45,000.00 on a total of 1,700 acres owned (an average value of \$26.47 per acre) and of this number 275 acres were under cultivation and valued at \$15,700.

**\*VALUE OF FISHERIES PRODUCT.**

**Fiscal Year 1922.**

<b>Food and shell fish canned</b> .....	\$5,052,174 06
<b>Food and shell fish handled fresh</b> .....	409,793 26
<b>Food and shell fish preserved (other than canned)</b> .....	1,694,880 26
<b>Fish by-products</b> .....	134,493 39
<b>Halibut</b> .....	1,336,599 47
<b>Codfish</b> .....	73,346 47
<b>Oysters</b> .....	313,199 19
<b>Total</b> .....	\$9,014,486 10

\* Value based on average wholesale price. The halibut and codfish are not strictly Washington products, as these fish are taken mostly in the waters of Bering Sea and Alaska and brought to Puget Sound to be marketed.

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YEARLY COMPARATIVE TABLE OF VALUE OF FISHERIES PRODUCT.

	Food and Shell Fish Canned	Food and Shell Fish Handled Fresh	Food and Shell Fish Preserved (Other Than Canned)*	Fish By-products	Halibut	Codfish	Oysters	Totals
1905	\$1,614,391 80	\$3,438,299 00	.....	\$44,594 00	.....	.....	\$234,199 00	\$10,351,353 80
1906	3,457,275 50	3,472,909 00	.....	19,885 00	.....	.....	292,409 00	7,242,478 50
1907	3,580,109 50	2,976,809 00	.....	19,885 00	.....	.....	300,817 00	6,877,620 50
1908	3,484,560 00	2,716,800 00	.....	16,540 00	.....	.....	307,700 00	6,525,600 00
1909	9,186,656 40	3,714,083 70	.....	41,750 00	.....	.....	581,000 00	13,534,010 10
1910	4,225,522 00	2,706,330 00	.....	21,770 00	.....	.....	688,500 00	7,632,122 00
1911	9,287,886 40	3,511,177 27	.....	97,665 00	.....	.....	687,350 00	13,474,078 77
1912	3,943,016 47	3,611,950 50	.....	79,000 00	.....	.....	330,360 00	7,964,348 77
1913	6,103,257 58	1,007,739 57	\$636,718 38	79,000 00	.....	.....	316,660 50	15,215,374 73
1914	6,872,934 70	492,003 43	242,330 51	82,721 00	.....	.....	900,609 30	8,183,294 46
1915 (6 months)	5,451,414 60	1,502,890 72	53,086 44	74,751 43	.....	.....	334,641 63	7,407,145 49
1916	1,494,719 55	1,602,890 72	40,774 00	114,439 29	.....	.....	288,675 29	7,407,145 49
1917 (4 months)	17,034,726 00	145,809 24	25,500 06	118,775 00	.....	.....	.....	1,627,892 74
1918	8,370,134 45	738,941 37	578,099 75	258,183 50	\$2,447,637 21	\$398,432 34	350,377 15	22,054,689 41
1919	12,959,477 57	1,063,170 34	823,094 22	184,109 86	2,408,743 74	340,527 50	377,989 81	13,854,237 30
1920	4,531,419 85	1,240,314 00	430,442 66	131,622 46	2,804,844 73	308,562 50	329,456 79	16,201,539 26
1921	5,830,849 27	1,328,659 60	624,866 80	137,742 25	2,781,862 23	387,061 33	256,336 67	10,119,861 82
1922	5,632,174 06	683,722 78	1,616,100 89	125,343 24	1,420,351 94	54,365 00	291,217 30	9,806,861 02
		469,736 26	1,694,860 26	134,483 39	1,336,959 47	73,346 47	313,199 19	9,014,456 10

\* For the years 1905 to 1912, inclusive, the fish preserved (other than canned) is included in the amount of fish handled fresh.

STATE SALMON HATCHERIES.

SALMON HATCHERIES	FRY CAPACITY IN 1922		
	Hatcheries	Ponds	Totals
<b>PUGET SOUND DISTRICT—</b>			
Chambers Creek .....	6,720,000	5,000,000	11,720,000
Dungeness .....	1,800,000	1,000,000	2,800,000
Elwha .....	1,920,000	.....	1,920,000
Green River .....	7,720,000	1,000,000	8,720,000
Green River No. 2 .....	4,400,000	.....	4,400,000
Nooksack .....	4,480,000	1,000,000	5,480,000
Middle Fork Nooksack .....	2,720,000	.....	2,720,000
Pilehuck .....	3,040,000	.....	3,040,000
Puyallup River .....	3,200,000	200,000	3,400,000
Samish .....	14,160,000	3,000,000	17,160,000
*Skokomish .....	4,200,000	.....	4,200,000
Skykomish (Startup) .....	6,720,000	.....	6,720,000
Snohomish .....	4,640,000	1,500,000	6,140,000
Tahuya .....	1,560,000	.....	1,560,000
Totals.....	67,280,000	12,700,000	79,980,000
<b>COLUMBIA RIVER DISTRICT—</b>			
Chinook .....	7,440,000	2,000,000	9,440,000
Kalama .....	14,560,000	2,400,000	16,960,000
Lewis River .....	1,600,000	.....	1,600,000
Pateros-Methow .....	2,560,000	4,000,000	6,560,000
Spokane .....	2,000,000	.....	2,000,000
Wenatchee .....	1,920,000	.....	1,920,000
Wind River .....	4,960,000	.....	4,960,000
Totals.....	35,040,000	8,400,000	43,440,000
<b>GRAYS HARBOR DISTRICT—</b>			
Chehalis .....	23,840,000	.....	23,840,000
Chehalis No. 2 .....	6,720,000	.....	6,720,000
Humtulpis .....	7,840,000	.....	7,840,000
Totals.....	38,400,000	.....	38,400,000
<b>WILLAPA HARBOR DISTRICT—</b>			
Nasel River .....	3,200,000	200,000	3,400,000
North River .....	2,720,000	500,000	3,220,000
Willapa .....	3,600,000	200,000	3,800,000
Willapa No. 2 .....	2,560,000	.....	2,560,000
Totals.....	12,080,000	900,000	12,980,000
Grand Totals.....	152,800,000	22,000,000	174,800,000

\* Hatchery building destroyed by heavy snows of February, 1923.

## OUTPUT OF SALMON FROM THE STATE HATCHERIES.

Fiscal Year 1922.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other Hatcheries	Number Eggs on Hand March 31st, 1922	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1923	Number Fry Hatched	Number Fry Received From Other Hatcheries	Number Fry on Hand March 31st, 1922	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1923
<b>CHINOOK</b>														
<b>PUGET SOUND DIST.—</b>														
Dungeness	220	1,052,000	.....	.....	68,000	.....	.....	984,000	.....	1,058,610	.....	984,000	.....	.....
Green River	397	2,030,300	3,000,000	.....	108,300	530,000	.....	4,892,000	.....	3,683,575	.....	3,683,575	.....	2,246,000
Nooksack	87	427,000	.....	.....	26,700	.....	.....	400,300	.....	4,325	.....	395,975	.....	.....
Samish	.....	.....	1,500,000	.....	13,400	1500,000	.....	186,000	.....	10,102	.....	2,296,078	.....	.....
Skokomish	.....	.....	500,000	.....	2,110	.....	.....	497,800	.....	208,140	.....	713,150	.....	.....
Skykomish	25	154,300	.....	.....	5,732	.....	.....	648,568	.....	2,082	.....	595,800	.....	50,680
Totals.....	739	3,663,600	5,500,000	.....	224,242	530,000	.....	8,400,358	.....	2,798,500	.....	8,995,578	.....	2,296,680
<b>COLUMBIA RIVER DISTRICT—</b>														
Chinook	675	3,076,000	.....	.....	167,027	.....	.....	2,908,973	.....	1,799,800	.....	2,912,600	.....	1,721,748
Kahama	4,241	26,321,000	.....	.....	1,071,500	111,000,000	.....	14,249,500	.....	2,900,000	.....	14,697,809	.....	2,500,000
Totals.....	4,916	29,397,000	.....	.....	1,238,527	11,000,000	.....	17,158,473	.....	4,699,800	.....	17,520,409	.....	4,221,748
<b>GRAYS HARBOR DIST.—</b>														
Chehalis	147	664,000	1,000,000	.....	61,820	.....	.....	1,692,180	.....	.....	.....	1,599,530	.....	.....
Totals.....	147	664,000	1,000,000	.....	61,820	.....	.....	1,692,180	.....	.....	.....	1,599,530	.....	.....
<b>WILLAPA HARBOR DISTRICT—</b>														
Naselle River	.....	.....	1,000,000	.....	9,000	.....	.....	991,000	.....	.....	.....	650,000	.....	338,500
North River	12	25,000	.....	.....	300	.....	.....	24,700	.....	.....	.....	24,700	.....	.....
Willapa	722	3,162,000	.....	.....	327,450	1,060,000	.....	1,864,500	.....	.....	.....	1,862,680	.....	.....
Totals.....	734	3,217,000	1,000,000	.....	336,750	1,000,000	.....	2,880,250	.....	.....	.....	2,536,780	.....	338,500
<b>REGAPITULATION—</b>														
Puget Sound District...	739	3,663,600	5,500,000	.....	224,242	530,000	.....	8,400,358	.....	2,798,500	.....	8,995,578	.....	2,296,680
Columbia River Dist....	4,916	29,397,000	.....	.....	1,238,527	11,000,000	.....	17,158,473	.....	4,699,800	.....	17,520,409	.....	4,221,748
Grays Harbor District...	147	664,000	1,000,000	.....	61,820	.....	.....	1,692,180	.....	.....	.....	1,599,530	.....	.....
Willapa Harbor Dist....	734	3,217,000	1,000,000	.....	336,750	1,000,000	.....	2,880,250	.....	.....	.....	2,536,780	.....	338,500
Totals.....	6,536	36,941,600	7,500,000	.....	1,864,339	12,530,000	.....	30,050,261	.....	7,498,300	.....	30,322,357	.....	6,856,664

\* 30,000 Shipped to University of Washington. † 500,000 Shipped to United States Bureau of Fisheries, Birdsiew, Wash. ‡ 4,500,000 Shipped to State of Oregon.

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.

Fiscal Year 1922.

DOG	Number Females Spawmed	Number Eggs Taken	Number Eggs on Hand March 31st, 1922	Number Eggs Received From Other Hatcheries	Number Eggs on Hand March 31st, 1922	Number Eggs Shipped	Number Eggs Lost	Number Fry Hatched	Number Fry From Other Hatcheries	Number Fry on Hand March 31st, 1922	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1922
<b>PUGET SOUND DIST.—</b>														
Chambers Creek	254	2,277,293	300,200	300,200	1,977,000	491,500	1,485,500	1,485,500	1,485,500	1,365,500	34,000	1,043,000	1,043,000	1,043,000
Green River	165	472,100	18,700	18,700	453,400	4,120,300	3,966,900	4,120,300	4,120,300	200,000	800	100,000	100,000	353,200
Nooksack	111	387,100	67,650	67,650	319,450	2,200,300	2,132,650	2,200,300	2,200,300	347,700	3,390	316,150	316,150	316,150
Skykomish	4	8,000	300	300	7,700	3,230,000	2,927,250	3,230,000	3,230,000	347,700	200	3,077,500	3,077,500	7,500
Totals.....	1,295	3,144,400	384,250	384,250	2,758,150	491,500	14,568,400	14,568,400	14,568,400	2,113,200	38,300	2,859,150	2,859,150	309,700
<b>*HUMPBACK</b>														
<b>PUGET SOUND DIST.—</b>														
Duwamish	.....	.....	500,000	500,000	.....	8,500	721,000	721,000	721,000	1,365,500	5,000	1,715,500	1,715,500	141,500
Green River	.....	.....	1,000,000	1,000,000	.....	5,000	.....	.....	.....	200,000	45,000	1,190,000	1,190,000	.....
Puyallup River	.....	.....	2,000,000	2,000,000	.....	69,700	.....	.....	.....	.....	32,825	4,075,300	4,075,300	.....
Snohomish	.....	.....	3,000,000	3,000,000	.....	295,100	.....	.....	.....	.....	32,940	2,171,075	2,171,075	.....
Skykomish	.....	.....	2,000,000	2,000,000	.....	32,750	.....	.....	.....	.....	30,650	2,386,000	2,386,000	74,500
Totals.....	.....	.....	15,290,000	15,290,000	.....	46,150	.....	.....	.....	2,113,200	151,273	16,314,627	16,314,627	215,700
<b>SILVER</b>														
<b>PUGET SOUND DIST.—</b>														
Chambers Creek	181	390,800	10,000	10,000	380,800	500,000	627,000	331,000	331,000	50,500	11,000	386,500	386,500	.....
Duwamish	.....	.....	345,000	345,000	.....	7,000	7,000	338,000	338,000	57,000	57,000	388,000	388,000	.....
Green River	2,479	7,164,150	42,034,025	42,034,025	.....	256,450	256,450	8,042,825	8,042,825	321,000	81,262	1,820,738	1,820,738	7,851,325
Nooksack	2,986	12,299,200	7,117,000	7,117,000	1,400,000	1,400,000	1,400,000	7,424,000	7,424,000	3,054,850	18,515	4,372,735	4,372,735	6,087,000
M. P. Nooksack	.....	.....	1,400,000	1,400,000	.....	3,338	3,338	1,365,000	1,365,000	1,970	1,970	1,363,030	1,363,030	.....
Puyallup River	.....	.....	1,657,000	1,657,000	.....	37,975	37,975	1,250,000	1,250,000	343,262	37,124	87,876	87,876	6,812,373
Snohomish	4,273	12,835,500	3,191,520	3,191,520	474,025	454,250	454,250	9,435,000	9,435,000	343,262	43,024	3,422,895	3,422,895	.....
Skykomish	.....	.....	1,300,000	1,300,000	.....	1,300	1,300	10,500,270	10,500,270	2,545,045	3,100	151,200	151,200	5,969,924
Skykomish	4,275	15,095,500	733,085	733,085	4,000,000	64,100	392,700	3,435,000	3,435,000	2,545,045	15,000	7,089,322	7,089,322	3,985,904
Totals.....	14,104	47,735,950	9,453,825	9,453,825	6,374,025	10,628,237	43,045,735	43,045,735	43,045,735	7,001,087	211,004	17,776,296	17,776,296	32,000,132

\* Received from Alaska. † 560,000 Received from King County. ‡ 402,000 Received from King County.



OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.  
Fiscal Year 1922.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other H'cher's	Number Eggs on Hand March 31st, 1922	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1923	Number Fry Hatched	Number Fry Received From Other H'cher's	Number Fry on Hand March 31st, 1922	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1923
SILVER—Continued														
COLUMBIA RIVER DISTRICT—														
Chinook	198	416,000		68,275	40,128			375,872		364,100	4,012	364,000		371,900
Tillamook River				68,275	275			68,000		358,035	625	429,410		
Totals	198	416,000		68,275	40,403			438,872		722,135	4,637	784,410		371,900
GRAYS HARBOR DIST.—														
Chehalis	3,323	9,538,000		12,337,000	647,259		5,212,750	16,015,000		4,457,510	5,760	17,218,000		3,248,750
Totals	3,323	9,538,000		12,337,000	647,259		5,212,750	16,015,000		4,457,510	5,760	17,218,000		3,248,750
WILLAPA HARBOR														
Naselle River	3,032	9,139,000	1,225,000	3,000,000	482,800	2,225,000	1,594,000	7,886,000		3,514,500	3,200	1,231,800		1,681,465
Willapa			1,225,000	3,000,000	482,800	2,225,000	1,594,000	9,061,000		3,514,500	15,505	9,053,500		1,681,465
Totals	3,032	9,139,000	1,225,000	3,000,000	483,400	2,225,000	1,594,000	9,061,000		3,514,500	18,705	10,865,300		1,681,465
RECAPITULATION—														
Pugnet Sound District	14,194	47,735,050	9,168,825	5,744,832	2,586,013	6,374,025	10,028,237	43,045,735		7,001,087	211,004	17,776,296		32,000,132
Columbia River Dist.	198	416,000		68,275	40,403			438,872		722,135	4,637	784,410		371,900
Grays Harbor District	3,323	9,538,000		12,337,000	647,259		5,212,750	16,015,000		4,457,510	5,760	17,218,000		3,248,750
Willapa Harbor Dist.	3,032	9,139,000	1,225,000	3,000,000	483,400	2,225,000	1,594,000	9,061,000		3,514,500	18,705	10,865,300		1,681,465
Totals	20,747	66,828,050	10,379,825	21,145,110	3,767,066	8,599,025	17,435,587	68,550,607		15,695,832	240,106	46,643,976		37,362,357
STEELHEAD														
PUGET SOUND DIST.—														
Dungeness	216	743,000			32,000	400,000	38,000	253,000				253,000		
Elwha	29	67,000		15,000		82,000								
Green River	13	32,000				167,000	32,000	448,400			7,445	273,955	1167,000	
Sauish	338	1,394,400		5,300	79,000	1,067,000	115,500	291,406			3,807	287,559		
Skykomish	108	391,500		14,975	15,369		74,500							
Totals	774	2,387,900		35,475	146,539	1,174,000	290,000	992,806			11,342	814,464	167,000	

+ 300,000 Shipped to Whatcom County; 177,000 Shipped to Kittitas County; 190,000 Shipped to Walla Walla County.  
\* 82,000 Shipped to Clallam County; 199,000 Shipped to San Juan County; 825,000 Shipped to E. P. Doollittle.

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.

Fiscal Year 1922.

	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other H'olders	Number Eggs on Hand March 31st, 1922	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1923	Number Fry Hatched	Number Fry Received From Other Hatcheries	Number Fry on Hand March 31st, 1922	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1923
STEELEHEAD—Continued													
GRAYS HARBOR DIST.—Chetalls	408	1,574,000		474,300	144,800	1,000,000	202,200	1,101,300			799,870	1300,000	
Totals	408	1,574,000		474,300	144,800	600,000	202,200	1,101,300			799,870	300,000	
WILLAPA HARBOR DIST.—Willapa	681	2,299,000		1,426,000	277,600	*835,000	680,400	1,922,000			1,900,000		
Totals	681	2,299,000		1,426,000	277,600	835,000	680,400	1,922,000			1,900,000		
RECAPITULATION—Puget Sound District	714	2,537,900		35,475	146,569	1,174,000	260,000	992,806			814,404	167,000	
Columbia River District	408	1,574,000		474,300	144,800	600,000	202,200	1,101,300			799,870	300,000	
Grays Harbor Dist.	681	2,299,000		1,426,000	277,600	835,000	680,400	1,922,000			1,900,000		
Willapa Harbor Dist.													
Totals	1,843	6,410,900		1,935,775	568,969	2,609,000	1,142,600	4,026,106			3,523,334	467,000	
SOCKEYE													
PUGET SOUND DIST.—Skokomish	3	10,000	*533,920		3,551			530,369			275,000		
Skykomish	3	10,000	290		290			9,800			9,800		
Totals	3	10,000	533,920		3,751			540,169			284,800		

† 600,000 Shipped to Grays Harbor County. † 300,000 Shipped to Grays Harbor County.  
 \* 250,000 Shipped to Spokane County; 125,000 Shipped to Walla Walla County.  
 \* 533,920 Received from United States Bureau of Fisheries, Afognak, Alaska.

OUTPUT OF SALMON FROM THE STATE HATCHERIES—Continued.  
Fiscal Year 1922.

ALL SPECIES COMBINED	Number Females Spawmed	Number Eggs Taken	Number Eggs Received From Other Hatchers	Number Eggs on Hand March 31st, 1922	Number Eggs Hatched	Number Fry Received From Other Hatchers	Number Fry on Hand March 31st, 1922	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1923
<b>PUGET SOUND DIST.—</b>											
Chambers Creek.....	1,135	2,647,000	1,082,800	16,000	2,318,000	.....	56,500	45,000	2,329,500	.....	.....
Dunross.....	446	1,705,000	504,000	345,000	2,046,000	.....	1,365,500	.....	3,290,500	.....	141,500
Elyria.....	39	67,000	1,000,000	15,000	995,000	.....	257,000	5,000	1,247,000	.....	.....
Green River.....	3,055	9,680,350	9,224,025	.....	18,408,625	.....	1,379,610	148,000	9,179,613	.....	10,460,525
Nooksack.....	3,214	13,113,300	836,050	1,327,600	8,143,750	.....	3,654,850	26,140	5,684,860	.....	6,087,600
M. F. Nooksack.....	.....	.....	1,400,000	.....	1,365,000	.....	.....	1,970	.....	.....	1,363,030
Puyallup River.....	4,611	14,139,000	3,137,000	3,338	2,328,000	.....	2,207,572	69,949	2,258,951	.....	.....
Samish.....	.....	.....	3,633,000	3,197,650	14,606,000	.....	3,207,572	93,111	9,687,488	167,000	6,886,573
Skykomish.....	.....	.....	3,633,000	131,600	3,725,800	.....	447,400	497,250	3,676,950	.....	.....
Skykomish.....	4,415	15,630,300	1,530,000	748,000	12,420,534	.....	2,545,045	26,446	8,881,023	.....	6,058,110
Snohomish.....	.....	.....	4,000,000	.....	3,635,800	.....	.....	.....	.....	.....	3,865,900
Totals.....	16,915	57,001,850	30,477,745	5,780,310	4,069,025	8,078,025	10,888,237	912,972	46,214,885	167,000	34,983,238
<b>COLUMBIA RIVER DISTRICT—</b>											
Chinook.....	808	3,492,000	.....	.....	3,284,845	.....	2,103,800	78,437	3,276,600	.....	2,003,708
Kalama.....	4,341	26,321,010	1,071,500	11,000,000	14,249,500	.....	3,900,000	41,631	14,607,860	.....	2,500,000
Tilton River.....	.....	.....	275	63,275	63,000	.....	358,035	625	420,410	.....	.....
Totals.....	5,109	29,813,010	1,348,000	11,000,000	17,597,345	.....	5,421,935	120,693	18,304,879	.....	4,508,708
<b>GRAYS HARBOR DIST.—</b>											
Chehalis.....	3,938	11,776,000	1,633,000	12,811,300	18,718,490	.....	4,467,510	9,740	19,617,400	300,100	3,248,750
Totals.....	3,938	11,776,000	1,633,000	12,811,300	18,718,490	.....	4,467,510	9,740	19,617,400	300,100	3,248,750

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OUTPUT OF SALMON FROM THE STATE HATCHERIES—Concluded.

Fiscal Year 1922.

	Number Females Spawned	Number Eggs Taken	Number Eggs Received From Other Hatcheries	Number Eggs on Hand March 31st, 1922	Number Eggs Lost	Number Eggs Shipped	Number Eggs on Hand March 31st, 1923	Number Fry Hatched	Number Fry Received From Other Hatcheries	Number Fry on Hand March 31st, 1922	Number Fry Lost	Number Fry Planted	Number Fry Shipped	Number Fry on Hand March 31st, 1923
ALL SPECIES COMBINED—Continued														
WILLAPA HARBOR DISTRICT—														
Naselle	12	25,000	2,225,600		19,600			2,206,000			5,700	1,861,800		338,500
North River	4,435	14,630,000		4,426,000	1,087,860	4,060,600	3,514,500	11,632,560		24,700	40,975	13,424,960		1,681,496
Totals	4,447	14,655,000	2,225,600	4,426,000	1,107,460	4,060,600	3,514,500	13,865,250		3,514,500	46,675	15,311,060		2,019,996
RECAPITULATION—														
Puget Sound District	16,915	57,091,850	30,477,745	5,780,310	4,069,025	8,078,025	11,913,477	70,314,618		11,913,477	912,972	46,214,866	167,000	94,868,288
Columbia River Dist.	5,109	29,813,000		63,275	1,278,960	11,000,000	5,421,935	17,397,645		5,421,935	120,693	18,304,579		4,563,706
Grays Harbor Dist.	3,638	11,775,000	1,000,000	12,811,300	853,870	600,000	4,467,510	18,718,480		4,467,510	9,740	19,617,400	300,100	3,248,750
Willapa Harbor Dist.	4,447	14,655,000	2,225,600	4,426,000	1,107,460	4,060,600	3,514,500	13,865,250		3,514,500	46,675	15,311,060		2,019,996
Grand Totals	30,409	113,335,850	33,703,345	25,080,865	7,360,575	23,738,625	25,307,422	120,493,693		25,307,422	1,090,090	99,448,244	467,100	144,796,691

**SUMMARY OF OUTPUT OF SALMON FROM STATE HATCHERIES.**

**Fiscal Year 1922.**

	Chinook	Dog	Humpback	Silver	Steelhead	Sockeye	Totals
Number females spawned.....	6,536	1,255		20,742	1,863	3	30,409
<b>EGGS—</b>							
Taken by state hatcheries.....							
Received from Alaska.....	36,941,600	3,144,400		66,828,960	6,410,900	10,000	113,335,860
Received from King County.....			15,200,000				15,200,000
Received from United States Bureau of Fisheries.....	702,000			962,000		533,920	1,664,000
<b>Totals.....</b>	<b>37,643,600</b>	<b>3,144,400</b>	<b>15,200,000</b>	<b>67,790,960</b>	<b>6,410,900</b>	<b>543,920</b>	<b>130,823,770</b>
Lost.....	1,961,339	368,250	721,600	3,707,666	568,969	3,751	7,309,575
Furnished to University of Washington (experimental purposes).....	30,000						30,000
Furnished to United States Bureau of Fisheries.....	500,000						500,000
Furnished to State of Oregon.....	4,500,000						4,500,000
Sold to E. P. Doollittle (Origate hatchery).....					25,000		25,000
Furnished to county hatcheries for hatching and planting as follows:							
Clallam County.....					82,000		82,000
Grays Harbor County.....					600,000		600,000
Klickitas County.....					177,000		177,000
Spokane County.....					250,000		250,000
Walla Walla County.....					315,000		315,000
Whatcom County.....					300,000		300,000
On hand March 31, 1922.....				17,435,587	1,142,600		18,578,187
<b>FRY—</b>							
Hatched.....	30,050,361	2,768,150	14,563,400	68,550,607	4,029,108	540,109	120,493,635
On hand April 1, 1922.....				21,145,110	1,965,773		23,110,883
Lost.....	369,280	38,300	151,273	240,108	35,772	255,369	1,060,060
Furnished to counties (planted in lieu of trout).....	30,322,367	2,369,150	16,314,627	44,643,976	3,523,334	284,800	99,445,244
Planted.....	6,866,954	360,700	215,700	37,362,367			44,765,681
On hand March 31, 1922.....							

**AVERAGE NUMBER OF EGGS TAKEN TO FEMALE.**  
**Fiscal Year 1922.**

SPECIE	Average Number Eggs
Chinook .....	5,632
Dog .....	2,485
Humpback (none spawned) .....	.....
Silver .....	3,222
Steelhead .....	3,441

**PERCENTAGE OF LOSS ON SALMON EGGS AND FRY.**  
**Fiscal Year 1922.**

SPECIE	Loss on Eggs	Loss on Fry
Chinook .....	5%	1.3%
Dog .....	12%	1.5%
Humpback (Alaska) .....	4%	1.5%
Silver .....	5%	0.5%
Steelhead .....	4%	0.5%
Sockeye .....	4%	47.0%

YEARLY COMPARATIVE TABLE OF OUTPUT OF SALMON FROM THE STATE HATCHERIES, COST OF OPERATION AND COST OF OUTPUT PER THOUSAND.

DISTRICT AND YEAR	Chinook	Dog	Humpback	Silver	Sockeye	Steelhead	Totals	Cost of Operating Hatcheries	Cost of Output per Thousand
<b>PUGET SOUND DISTRICT—</b>									
1900							37,473,000		
1902							45,028,285		
1903							17,302,140		
1904	2,690,000			11,400,426		2,386,150	16,486,776		
1905	5,101,000	2,000,000		25,000,000	320,000		2,886,926		
1906	4,275,900	14,300,000		28,394,000			50,943,870		
1907	7,838,400	2,278,350		24,350,752		4,429,575	41,572,077		
1908	9,252,750	6,948,000	2,655,900	20,961,200		3,681,450	39,043,400		
1909	10,825,650	7,748,500	519,600	25,949,100		4,855,000	49,807,850		
1910	4,742,850	13,255,500		28,212,500		5,294,240	51,444,590		
1911	4,662,775	3,950,500	390,300	33,542,972		5,912,656	48,498,208		
1912	7,060,450	12,777,000		50,415,100		11,050,000	81,311,550		
1913	4,219,000	7,052,850	1,690,750	37,017,355		3,462,630	53,472,594		
1914	5,350,000	11,482,750		33,459,445		4,975,469	55,310,656		
1915	3,207,230	11,686,138	6,143,600	32,425,087	13,300	5,545,652	60,011,170		
1916	3,207,940	11,686,138		32,425,087	1,296,200	5,545,653	54,100,319		
1917	7,137,950	17,178,850	6,491,400	6,125,900	12,649,000	5,697,625	55,980,735		
1918	8,308,550	15,887,400		13,792,050	1,499,000	3,551,830	43,038,830		
1919	6,971,325	21,734,300	2,285,050	18,496,650		3,784,450	53,291,775		
1920	2,691,100	30,439,475		34,900,900		3,784,450	71,815,925		
1921	6,187,975	7,275,000	6,071,500	14,997,750		2,523,930	37,056,155		
1922	3,663,600	3,144,400		47,735,950	10,000	2,537,900	57,091,850		
<b>COLUMBIA RIVER DISTRICT—</b>									
1900							16,635,000		
1903							39,431,210		
1904	8,500,000			155,000			17,855,270		
1905	6,470,000			650,000			7,685,000		
1906	5,173,000			2,050,000			7,190,000		
1907	9,947,000			992,560			7,923,000		
1908	7,715,000	413,000		1,278,000			10,440,550		
1909	9,484,500			3,394,000			12,009,000		
1910	11,692,300	464,000		1,841,000			12,788,500		
1911	10,035,600	114,000		320,000			13,497,350		
1912	24,196,600	132,000		2,015,000			19,469,400		
1913	31,682,000	687,000		1,036,500			26,326,000		
1914	20,290,600	1,831,100		1,823,000			33,705,300		
1915	44,766,975	737,450		1,247,900		2,839,750	22,896,730		
1916	44,766,975	737,450		1,247,900		2,839,750	49,592,075		

YEARLY COMPARATIVE TABLE OF OUTPUT OF SALMON FROM THE STATE HATCHERIES, COST OF OPERATION AND COST OF OUTPUT PER THOUSAND—Continued.

DISTRICT AND YEAR	Chinook	Dog	Humpback	Silver	Snakey	Steelhead	Totals	Cost of Operating Hatcheries	Cost of Output per Thousand
<b>COLUMBIA RIVER DISTRICT—Continued</b>									
1917	70,286,550	192,500		3,581,000		4,201,500	78,931,550		
1918	38,776,730	221,000		1,825,000		3,105,000	44,325,320		
1919	23,482,730	272,500		1,836,100		3,379,000	30,469,300		
1920	2,469,900			2,181,500		3,189,500	7,830,500		
1921	41,133,336			1,633,500		1,236,000	44,621,866		
1922	29,397,100			416,000			29,813,100		
<b>GRAYS HARBOR DISTRICT—</b>									
1900									
1902									
1903									
1904 (not operated)									
1905	600,000	1,532,000		2,848,200			5,080,200		
1906	406,000	1,000,000		2,590,000			3,996,000		
1907	163,000	2,064,000		3,275,000			5,542,000		
1908	148,000	1,737,000		1,800,000			3,765,000		
1909	403,000	859,000		1,577,000			2,839,000		
1910	117,000	1,088,000		4,491,000		1,250,000	6,946,000		
1911	125,000	1,132,000		3,873,000		125,000	5,355,000		
1912	126,000	3,454,000		1,875,000		550,000	6,068,000		
1913	156,000	1,180,000		4,119,000		820,000	6,275,000		
1914	105,000	14,215,000		6,625,000		646,000	21,591,000		
1915	778,000	42,457,600		7,841,000		1,059,750	52,137,250		
1916	910,500	23,442,300		9,610,000		1,659,750	35,610,800		
1917	311,000	4,942,800		14,789,415		1,670,000	21,613,215		
1918	303,360	39,296,800		8,181,675		2,941,700	50,783,535		
1919	2,451,230	65,569,030		23,774,040		1,979,700	93,774,000		
1920				17,747,100		1,633,050	19,588,450		
1921	664,000			9,538,000		1,874,000	11,776,000		
1922									
<b>WILLAPA HARBOR DISTRICT—</b>									
1900									
1902									
1903									
1904	700,000			2,000,000		320,000	3,020,000		
1906	588,500			2,400,000		189,500	3,178,000		
1906	437,400			2,500,000		585,000	3,522,400		



YEARLY COMPARATIVE TABLE OF OUTPUT OF SALMON FR OM THE STATE HATCHERIES, COST OF OPERATION AND COST OF OUTPUT PER THOUSAND—Concluded.

DISTRICT AND YEAR	Chinook	Dog	Humpback	Silver	Sockeye	Steelhead	Totals	Cost of Operating Hatcheries	Cost of Output per Thousand
<b>WILLAPA HARBOR DISTRICT—Continued</b>									
1907	678,000			654,500		148,500	1,481,000		
1908	322,200			504,000		389,000	1,225,200		
1909	473,500			64,000			537,500		
1910	778,000			2,731,000		400,000	3,909,000		
1911	788,000			3,457,500		408,100	4,653,600		
1912	708,000			1,940,000		510,000	3,818,000		
1913	1,346,500			2,094,000		292,000	3,641,500		
1914	437,700			968,500		87,500	1,493,700		
1915	1,739,775			807,600		11,250	2,548,625		
1916	2,357,800			1,151,250		11,250	3,520,300		
1917	1,008,200	339,350		2,219,750		813,800	4,440,800		
1918	7,389,350	1,016,000		2,002,700		285,500	12,693,550		
1919	323,000	3,348,500		5,889,850		1,331,400	13,486,100		
1920	6,387,200			6,756,500		2,482,800	16,826,500		
1922	3,217,000			9,139,000		2,299,000	14,655,000		
<b>ALL DISTRICTS COMBINED—</b>									
1900							57,156,500		
1902				13,385,426		2,715,150	84,518,406		
1903				31,798,200	329,000	4,048,370	37,825,710		
1904	6,890,200	3,632,000		33,354,000		4,578,075	51,586,123		
1905	12,759,500	15,390,000		29,273,292		4,080,450	59,407,127		
1906	10,292,300	4,342,350	2,656,300	34,543,200		6,884,560	54,282,000		
1907	18,047,000	8,218,000		30,894,100		4,586,000	66,044,560		
1908	17,440,950	8,007,500	519,000	39,775,500		6,584,240	75,701,680		
1909	21,168,350	14,807,500	390,300	41,295,472		12,119,000	77,943,203		
1910	17,624,749	5,295,500		56,848,100		4,574,639	116,403,550		
1911	16,346,000	8,919,850	1,090,750	44,176,855	13,300	9,708,900	102,277,404		
1912	32,159,450	27,528,850		42,893,945	13,300	9,459,402	104,319,129		
1913	26,132,370	27,528,850	6,143,000	42,322,487	1,296,200	18,408,269	135,408,269		
1914	50,511,950	54,881,188		49,322,487	12,049,000	12,360,925	173,325,925		
1915	50,511,950	54,881,188	6,401,400	29,408,150	1,400,000	8,899,930	113,427,175		
1916	80,542,800	40,813,650		32,639,215		13,016,550	147,414,010		
1917	40,994,480	21,387,550	2,285,050	31,039,125		11,178,000	186,906,525		
1918	38,156,985	62,319,000		69,446,200		7,904,580	116,462,460		
1919	7,925,230	101,337,005		41,104,850	10,000	6,410,900	113,335,859		
1920	54,136,550	7,275,000	6,071,500	66,828,950					
1922	36,941,000	3,144,400							
							837,150 10		\$0.37
									.38
									.67
									1.56
									.83
									1.42
									.66
									1.04
									.56
									.43
									.89
									.34
									.35
									.54
									.49
									.51
									.52
									.44

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ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS.

Fiscal Year 1922.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
1922— Sept. 27 Sept. 27	S. I. Alderson W. A. Heiness	CLALLAM COUNTY Gaffing salmon Gaffing salmon	Guilty Guilty	\$10.00 10 00	\$20 00
1922— May 18 July 14 Oct. 11	John Gabrielson Charles Greenberg W. C. Carpenter	CLARKE COUNTY Fishing during closed season. Buying fish for Oregon cannery without license and bond. Attempting to shoot food fish in Washougal River.	Guilty Pending Guilty	\$1 00 5 00	6 00
1922— May 26 May 31 June 16 June 21 Sept. 10 Sept. 28	Eugene Boylou J. Zeigler Ellis Miller T. O. McDonald Charles Thwing Charles Mustola	COWLITZ COUNTY Casting sawdust into Cowlitz River. Casting sawdust into Cowlitz River. Possession of short sturgeon. Buying and having possession of short sturgeon. Operating trap during closed season. Operating trap during closed season.	Guilty Guilty Guilty Guilty Guilty Guilty	\$25 00 25 00 25 00 25 00 50 00 50 00	210 00
1922— Mar. 19	J. Wallace	Operating gill net in closed waters.	Guilty	10 00	210 00
1922— Sept. 12 Sept. 20 Oct. 27 Oct. 29 Oct. 30 Nov. 6 Nov. 6 Nov. 23 Dec. 8 Dec. 8 Dec. 8	George Swanson John Limbeck T. S. Pritchett John McCulloch Theodore Thorason F. Morrow J. D. French Dennis Parker Harry Gates Earl Gates Frank Hover	GRAYS HARBOR COUNTY Fishing during closed season. Fishing above deadline in Chehalis River. Fishing with gaff hook. Fishing above deadline in Chehalis River. Fishing above deadline in Chehalis River. Fishing above deadline in Humptulips River. Fishing above deadline in Humptulips River. Fishing during closed season. Canning clams out of season. Canning clams out of season. Canning clams out of season.	Guilty Guilty Guilty Guilty Guilty Guilty Acquitted Acquitted Guilty Pending Pending	\$25 00 50 00 10 00 25 00 25 00 10 00 10 00 75 00	

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ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS—Continued.

Fiscal Year 1922.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
<b>GRAYS HARBOR COUNTY—Concluded</b>					
1922— Dec. 20	O. S. Meyers.....	Operating retail fish market without license.	Guilty.....	\$10 00	
Dec. 21	John Karvonen.....	Fishing during closed season.	Guilty.....	25 00	
Dec. 21	Paul Lawalla.....	Fishing without a license.	Guilty.....	25 00	
Dec. 21	Carl Young.....	Fishing during closed season.	Guilty.....	25 00	
Dec. 21	Jack Ehlle.....	Allen fishing during closed season.	Guilty.....	25 00	
Dec. 21	Ed. Karjola.....	Fishing during closed season.	Guilty.....	25 00	
Dec. 26	Nick Rakivich.....	Gaffing salmon.....	Guilty.....	17 25	
Dec. 26	Mike Koll.....	Gaffing salmon.....	Guilty.....	17 25	
1923— Jan. 4	Epton Meat Market.....	Handling illegally caught salmon.	Guilty.....	10 00	
Jan. 18	Clarence Willis.....	Fishing above deadline.	Guilty.....	25 00	
Jan. 26	Geertz & Sons.....	Handling clams taken during closed season.	Guilty.....	100 00	
Feb. 21	Jack Needles.....	Fishing above deadline.	Guilty.....	10 00	
Mar. 14	Fred Olive.....	Fishing above deadline in Humptulips River.	Acquitted.....		
Mar. 17	Harry Bryant.....	Operating drag saw in Chehalis River.	Ball forfeited.....	20 00	
Mar. 17	R. J. McCarthy.....	Operating drag saw in Chehalis River.	Guilty.....	20 00	
Mar. 30	A. George.....	Selling short crabs.....	Acquitted.....		574 50
<b>ISLAND COUNTY</b>					
1922— Sept. 28	Ole Malrn.....	Fishing during closed season.	Guilty.....	\$30 00	
Sept. 28	G. Hrochin.....	Fishing during closed season.	Guilty.....	30 00	
Sept. 28	Joas Livingston.....	Fishing during closed season.	Guilty.....	30 00	
Sept. 28	Theo Rice.....	Fishing during closed season.	Guilty.....	30 00	120 00
<b>KING COUNTY</b>					
1922— Nov. 17	R. J. Roggenkamp.....	Operating gill net in Duwamish River.	Guilty.....	\$25 00	
Nov. 26	S. Haysinjaki.....	Possession of short salmon.	Guilty.....	Cost	
Nov. 26	F. J. Shull.....	Possession of short salmon.	Guilty.....	Cost	
Dec. 10	Louis Miller.....	Possession of short salmon.	Guilty.....	3 00	
Dec. 11	John Van Dyke and Eugene Miller.....	Possession of salmon caught in closed waters.	Ball forfeited.....	25 00	
Dec. 13	Paul Clausssen.....	Possession of short salmon.	Guilty.....	5 00	
1923— Jan. 11	Washington Fish & Oyster Company.....	Possession of short crabs.	Guilty.....	5 00	63 00

\* Guilty in Justice Court—acquitted in Superior Court.

ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS—Continued.

Fiscal Year 1922.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
<b>PACIFIC COUNTY</b>					
1922— July 26	John H. Nikka.....	Buying fish for Adams Packing Company without license and bond.....	Dismissed.....		
July 26	N. P. Olsen.....	Buying fish without license.....	Dismissed.....		
July 26	Nick Burick.....	Fishing in closed waters.....	Dismissed.....	\$100 00	
Oct. 9	Paul Luketa et al.....	Fishing in closed waters.....	*Guilty.....	150 00	250 00
<b>PIERCE COUNTY</b>					
1922— Oct. 17	Mato Ivanovich.....	Fishing in closed waters.....	Guilty.....	\$10 00	
Nov. 1	W. J. Lathrop, Chester Howard, A. St. Peire, R. W. Calkins.....	Gaffing salmon.....	Ball forfeited.....	25 00	
Nov. 16	Fred Maxin, Wm. Simpson, A. Simpson, Wm. Finney, Watkins.....	Gaffing salmon.....	Guilty.....	20 00	
Nov. 18	Harner, Farnfield, John Watkins, Ben Cotten.....	Gaffing salmon.....	Guilty.....	10 00	
Nov. 19	John Pettit.....	Gaffing salmon.....	Ball forfeited.....	5 00	
Nov. 19	E. W. Tuplin.....	Gaffing salmon.....	Ball forfeited.....	5 00	
Nov. 19	J. J. Palmer, Alfred Dickson.....	Gaffing salmon.....	Guilty.....	15 00	
Nov. 21	B. Louis Mitter, Tony Morinizu, B. T. Keyshara.....	Gaffing salmon.....	Guilty.....	15 00	
Nov. 21	Hubert Johnson, Glen Perry, Ardne Barton.....	Gaffing salmon.....	Ball forfeited.....	20 00	
Nov. 22	Y. Ota.....	Gaffing salmon.....	Guilty.....	15 00	
Nov. 22	M. Nakayama.....	Gaffing salmon.....	Guilty.....	15 00	
Nov. 22	K. Shigo.....	Gaffing salmon.....	Guilty.....	15 00	
Nov. 23	I. Isujii.....	Gaffing salmon.....	Guilty.....	25 00	
Nov. 25	Z. Yamaji.....	Gaffing salmon.....	Guilty.....	25 00	
1922— Jan. 4	S. Nakashima.....	Gaffing salmon.....	Guilty.....	15 00	
Mar. 1	T. Watanabe.....	Operating fish market without license.....	Guilty.....	25 00	260 00

\* On appeal to Superior Court.

ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS—Continued.

Fiscal Year 1922.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
1922— Aug. 4	Erwino Miller	SKAGIT COUNTY Fishing in closed waters.	Bound over to Superior Court.		
Aug. 24	J. P. Tungeseth.	Fishing in closed waters.	Guilty.	\$50 00	
Aug. 25	Ole Noste	Fishing in closed waters.	Guilty.	50 00	
Sept. 30	F. Rose	Taking crabs during closed season.	Guilty.	10 00	
Sept. 30	Steffen Heckla	Taking crabs during closed season.	Guilty.	10 00	
Sept. 30	Mike Pecovitch	Taking crabs during closed season.	Guilty.	10 00	
Sept. 30	Mike Frank	Taking crabs during closed season.	Guilty.	10 00	
Sept. 30	G. N. Larson.	Selling fish illegally.	Dismissed.		
Sept. 30	Wm. O. Eaton.	Fishing during closed season.	Guilty.	10 00	
Oct. 2	Jess Payne	Taking crabs during closed season.	Guilty.	10 00	
Dec. 12	Alton Leaf	Fishing during closed season.	Guilty.	100 00	
Dec. 19	Nick Andrieh	Possession of short crabs.	Guilty.	5 00	
Dec. 19	Peter Brich	Possession of short crabs.	Guilty.	5 00	
Dec. 19	George Vojkovich	Possession of short crabs.	Guilty.	5 00	
Dec. 19	Peter Sardelich	Possession of short crabs.	Guilty.	5 00	
Dec. 19	R. O. Eaton	Possession of short crabs.	Guilty.	5 00	
Dec. 27	C. C. Hunt.	Possession of short crabs.	Guilty.	5 00	
1923— Jan. 3	N. D. Anderson.	Possession of short crabs.	Guilty.	5 00	
Feb. 17	Chris Erlanson	Fishing for crabs without license.	Guilty.	5 00	
Mar. 13	Lee Wallace	Fishing less than one mile below fish hatchery.	Guilty.	3 00	383 00
1922— Sept. 7	Albert Moe	SNOHOMISH COUNTY Fishing in closed waters.	Not guilty.		
Sept. 30	Joseph Austant	Fishing in closed waters.	Guilty.	\$10 00	
Dec. 14	Joe Dragovich	Possession of short crabs.	Guilty.	5 00	
Dec. 14	Paul Martinis	Possession of short crabs.	Guilty.	5 00	
1923— Feb. 26	John Fablan	Allen fishing for crabs without license.	Guilty.	5 00	26 00

ARRESTS MADE FOR VIOLATIONS OF THE FOOD FISH LAWS—Concluded.

Fiscal Year 1922.

Date of Arrest	OFFENDER	CHARGE	Disposition of Case	Penalty Imposed	Totals
<b>WAHIAKUM COUNTY</b>					
1922— May 31	Stephen Eide	Possession of short sturgeon.	Guilty	\$50 00	
July 16	Hjalmar Johnson	Trap not properly closed during weekly closed season.	Guilty	50 00	
July 17	Robert Butler	Operating 1,400 ft. gill net with 800 ft. license.	Guilty	10 00	
July 30	Potter & Eide.	Trap No. 1864 not closed during weekly closed season.	Guilty	50 00	
July 30	Potter & Eide.	Trap No. 1865 not closed during weekly closed season.	Guilty	50 00	
Aug. 6	Herman Osgerman	Trap not closed during weekly closed season.	Guilty	50 00	
Aug. 6	Stuart Davis	Trap not closed during weekly closed season.	Guilty	50 00	
Aug. 19	Anton Joseph	Operating gill net during weekly closed season.	Guilty	50 00	
Aug. 30	Martin J. Sanovich.	Operating gill net during weekly closed season.	Guilty	50 00	
Aug. 30	Henry Kangas	Operating gill net during weekly closed season.	Guilty	50 00	
Aug. 30	E. Gunderson	Operating gill net during weekly closed season.	Guilty	50 00	
1923— Jan. 31	Richard Gustavson	Operating set net without license.	Guilty	10 00	
Jan. 31	Richard Nassa	Operating set net without license.	Guilty	50 00	570 00
<b>WHAATCOM COUNTY</b>					
1922— Aug. 29	S. Kinaura	Fishing in American waters without license.	Guilty	\$75 00	
Aug. 29	T. Hirayama	Fishing in American waters without license.	Guilty	75 00	
Oct. 10	John Finkbonner	Transporting fish illegally	Guilty	25 00	
Oct. 10	Lummel Bay Pkg. Co.	Buying illegal fish.	Guilty	25 00	
Oct. 20	S. T. Kennedy	Fishing in closed waters.	Guilty	25 00	
Oct. 20	J. G. Olson	Fishing in closed waters.	Guilty	25 00	
Oct. 20	Marcel Mardesich	Fishing in closed waters.	Guilty	25 00	
Oct. 20	L. L. Thompson	Fishing in closed waters.	Guilty	25 00	
Oct. 20	S. W. Scott.	Fishing in closed waters.	Guilty	25 00	
Oct. 20	T. L. Filmore.	Fishing in closed waters.	Guilty	25 00	
Oct. 20	Ole P. Reitan.	Fishing in closed waters.	Guilty	25 00	
Oct. 23	John Evich, Tony Mkalitch, John Cekalovich, John Blatch, Tony Rokutch, Joe Evich, Nick Repa-nich	Fishing in closed waters.	Guilty	175 00	
Dec. 21	Joe Elenbaas	Using dip net in Nooksack River.	Guilty	11 00	
Dec. 21	Stephen Woudenberg	Using dip net in Nooksack River.	Guilty	11 00	
Dec. 23	F. L. Smith.	Gaffing salmon	Guilty	12 00	584 00
Total.....					\$2,985 50

**FISHWAYS REPAIRED, INSTALLED OR ORDERED INSTALLED.**

**Fiscal Year 1921 and 1922.**

OWNER OF DAM	STREAM LOCATED ON	COUNTY	CONDITION
<b>PUGET SOUND DISTRICT—</b> Shelton Light & Power Co.....	Shelton Creek.....	Mason.....	Complete
<b>COLUMBIA RIVER DISTRICT—</b> Washougal Light & Power Co..... Attalla Land Company..... U. S. Government.....	Washougal River..... Walla Walla River..... Yakima River.....	Clarke..... Walla Walla Yakima.....	Incomplete Complete Complete

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**NUMBER AND VALUE OF CANNERIES AND FACTORIES OPERATED, AND THEIR FISHING APPLIANCES AND CAPITAL INVESTED.**  
**Fiscal Year 1922.**

	PUGET SOUND DISTRICT		COLUMBIA RIVER DISTRICT		GRAYS HARBOR DISTRICT		WILLAPA HARBOR DISTRICT		ALL DISTRICTS COMBINED	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
Canneries, salmon (buildings and machinery) .....	21	\$1,559,141 29	9	\$298,251 24	9	\$172,751 30	3	\$44,113 04	42	\$2,074,256 87
Canneries, other than salmon .....	5	129,100 00			12	86,137 23	7	28,100 00	24	243,337 23
Factories, by-products .....	1	90,000 00							1	90,000 00
Warehouses, cold storages, smoke houses, packing plants, fuel houses, residences for labor, real estate .....		614,945 65		192,830 60		14,900 00		18,687 09		841,363 34
Automobiles, trucks and other land conveyances .....	11	8,778 98	4	3,522 50	10	6,835 00	10	4,100 00	35	29,236 48
Steamboats .....	9	108,340 51			1	1,200 00			9	108,340 51
Launches .....	21	79,351 81	12	29,402 00	1	1,200 00	3	2,050 00	37	112,013 81
Scows .....	30	56,744 50	23	14,520 86	6	1,925 00			128	73,190 36
Cannery tenders .....	41	148,431 88	7	21,843 54	3	9,000 00			51	179,275 47
Fishing boats .....	4	20,274 44	165	95,965 06	1	400 00			161	116,829 52
Fish buyers boats .....			4	9,982 50			3	500 00	7	10,462 50
Pile drivers or pullers .....	14	65,949 24	3	1,744 50					17	67,693 74
Found net locations operated .....	41	895,382 24	18	24,216 61	8	40,000 00	3	1,500 00	70	871,078 95
Found net locations not operated .....					4	5,010 25			60	150,658 70
Stationary or scow fish wheels .....	56	145,648 45							7	19,720 00
Nets and seines .....		2,000 00	292	176,370 30	1	400 00			233	176,770 30
Net racks .....			153	24,256 86					28	28,558 86
Miscellaneous equipment .....		78,377 30		14,563 70		1,552 00			153	95,093 00
Total invested in plant and equipment .....		\$3,012,456 53		\$927,480 28		\$339,260 78		\$102,822 78		\$3,482,020 29
Operating expenses .....		2,138,284 01		1,402,113 13		789,585 29		100,361 81		4,438,744 24
Grand Total Capital Invested .....		\$8,050,740 54		\$2,329,593 41		\$1,129,246 07		\$211,984 59		\$9,518,521 06



NUMBER AND EARNINGS OF LABORERS EMPLOYED IN OPERATION OF CANNERIES, FACTORIES, AND THEIR APPLIANCES.

Fiscal Year 1922.

	PUGET SOUND DISTRICT			COLUMBIA RIVER DISTRICT			GRAYS HARBOR DISTRICT		
	Number Em- ployed	Average Season's Earnings	Total Earnings	Number Em- ployed	Average Season's Earnings	Total Earnings	Number Em- ployed	Average Season's Earnings	Total Earnings
Operical Capacity—									
Male.....	42	\$3,537 22	\$143,533 22	14	\$1,773 57	\$24,830 00	14	\$310 06	\$11,340 87
Female.....	39	319 52	12,183 12	3		2,610 00	6	649 50	3,897 00
Operating canneries, factories, warehouses, etc.—									
White labor—male.....	359	400 18	143,663 31	68	880 97	56,506 11	406	216 77	88,442 37
White labor—female.....	294	14 24	40,438 42	15	672 47	10,067 09	364	109 33	39,796 80
Oriental labor.....	100	486 59	51,790 09	179	570 96	102,202 12			
Indian labor.....	73	137 08	10,002 94						
Operating pile drivers and pullers, boats, scows, nets and other fishing appliances.....	297	536 76	158,416 51	41	533 25	21,863 40	184	114 24	21,019 55
Miscellaneous labor.....	55	515 77	28,367 55	14	796 25	10,127 04	15	682 50	10,237 50
Totals.....	1,255	\$472 86	\$568,430 16	334	\$683 31	\$228,225 76	991	\$175 31	\$174,734 09

**NUMBER AND EARNINGS OF LABORERS EMPLOYED IN OPERATION OF CANNERIES, FACTORIES, AND THEIR AP-  
PLIANCES—Concluded.**

**Fiscal Year 1922.**

	WILLAPA HARBOR DISTRICT			ALL DISTRICTS COMBINED		
	Number Em- ployed	Average Season's Earnings	Total Earnings	Number Em- ployed	Average Season's Earnings	Total Earnings
Clerical Capacity—						
Male .....						
Female .....	3	\$306 67	\$920 00	70	\$2,639 05	\$184,734 09
Operating canneries, factories, warehouses, etc.—						
White labor—male .....	68	222 88	15,155 76	903	338 40	303,767 55
White labor—female .....	146	67 94	9,919 80	809	123 90	100,242 11
Oriental labor .....				295	540 32	153,992 21
Indian labor .....				73	137 08	10,002 94
Operating pile drivers and pullers, boats, scows, nets and other fishing appliances	215	59 82	12,861 80	737	230 59	214,161 26
Miscellaneous labor .....				84	560 14	48,722 09
Totals .....	422	\$80 95	\$38,857 36	3,012	\$343 71	\$1,035,247 37

**OUTPUT OF THE PRIVATE FISH HATCHERIES.**

**Fiscal Year 1922.**

Spawn sold .....	1,516,300
Fry sold .....	2,184,368
Fish sold .....	25,464



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