

BIENNIAL REPORT  
OF THE  
**FISH COMMISSION**  
OF THE  
**STATE OF OREGON**  
FOR  
**1931 AND 1932**



BIENNIAL REPORT  
OF THE  
FISH COMMISSION  
OF THE STATE OF OREGON  
TO THE  
GOVERNOR AND THE THIRTY-SEVENTH  
LEGISLATIVE ASSEMBLY  
1933



FISH COMMISSION OF THE STATE OF OREGON

Hon. John C. Veatch, Chairman, Portland

Hon. C. A. Leinenweber, Astoria

Hon. R. S. Farrell, Portland

M. T. Hoy, Secretary and Master Fish Warden

**LETTER OF TRANSMITTAL**

Portland, Oregon, December 31, 1932.

TO HIS EXCELLENCY, the GOVERNOR, and the MEMBERS  
of the THIRTY-SEVENTH LEGISLATIVE ASSEMBLY.

Gentlemen:

Herewith is transmitted the biennial report of the Fish Commission of the State of Oregon covering the period from December 1st, 1930, to November 30th, 1932.

FISH COMMISSION OF OREGON,

John C. Veatch, Chairman.

## LETTER OF TRANSMITTAL

To the  
Honorable John C. Veatch, Chairman,  
Honorable C. A. Leinenweber,  
Honorable R. S. Farrell,  
MEMBERS of the FISH COMMISSION of the STATE OF OREGON.

Portland, Oregon, December 31, 1932.

Gentlemen:

It is my pleasure and honor to submit herewith the Financial Statement of the Master Fish Warden of the State of Oregon for the fiscal years of 1931 and 1932.

During the past biennium the administrative policy of the Department with respect to finance has been conducted in the same manner as during the biennium immediately preceding. That is to say, the office of the Master Fish Warden has had the collection of the various revenues of the Commission and has controlled or directed only such expenditures as related to the office, patrol service and general administrative activities. All disbursements having to do with hatcheries have been made and controlled through the Director of the Department of Fish Culture.

The thirty-sixth legislative assembly created a Department of State Police and charged that body with the responsibility of enforcing the laws governing the commercial fishing industry, along with the laws governing some four other state boards or commissions. This change in law enforcement necessitated, in accordance with provision of the statute, the transfer of fish wardens formerly operating under my direction, as well as the transfer of boats, outboard motors, search-lights and various other items of patrol service equipment. Inasmuch as the actual organization of this law enforcement body was not completed until August 1st, 1931, the eighteen thousand dollar (\$18,000) appropriation from the funds of this Department for the carrying out of State police work was proportioned over a period of seventeen months in equal monthly payments of one thousand fifty-eight dollars and eighty-two cents (\$1,058.82). The taking over of the law enforcement activity of the Department relieved the Master Fish Warden only of the duties actually involved in directing and supervising the force of wardens which formerly carried on patrol and enforcement work. Complaints as to law violations, as well as special problems affecting the industry, are still forwarded to my office. Contacts, inspection of plants and fishing operations are as necessary now as they were prior to the advent of the State Police. While the police organization has done splendid work and has given excellent service in every instance where complaints or other matters relative to illegal operation have been called to their attention by this Department, for which the head of the Department and the personnel of his organization are to be commended, I feel it my duty to call attention to the fact that as this organization becomes definitely established and perfected, a more complete and consistent check should be made on commercial fishing operations. Also increased attention should be given to the operation of commercial fishing gear without licenses, closed season fishing and fishing in closed areas above deadlines on our various commercial streams.

The finances of the Department during the past biennium, while not approaching limits hoped for, have as a whole been satisfactory, especially when one takes into consideration the general effects of the economic depression confronting us. The gross revenues of the Department during the biennium which ended is slightly less than one-half the revenue received by the Department during the 1925-26 biennium, the one prior to the taking over of the administration and affairs of the Fish Commission by the present Commission and its executive officers. Naturally, the disbursements of the Department have been in relative proportion to the decrease in revenues and have been kept within our ever decreasing budget.

The Department has already prepared, and plans to submit to the 1933 legislature, a proposal for a reduction in poundage fees for the purpose of affording relief to an overburdened and harassed industry. This proposal, if consummated by enactment into law, will provide an annual reduction in fees in the approximate sum of twenty-two thousand dollars, slightly over twenty-three per cent of our annual revenue as based on the 1932 receipts. This decrease in revenues for the purpose of relief, coupled with the general decrease in revenues above mentioned, obviously indicate that any further decrease in the revenues of this Department for whatever purpose, will seriously affect, if not jeopardize future operation. However, it is hoped that present depressing conditions will not continue so far into the future, and that this Department, as well as business in general, may by continued economies and careful supervision, survive the period, and be enabled to resume the now dormant policy of systematic expansion and assured perpetuation of the industry.

Respectfully submitted,

M. T. HOY,  
Master Fish Warden.



## HATCHERY FUND—RECEIPTS

	Dec. 1, 1930, to Nov. 30, 1931			Dec. 1, 1931, to Nov. 30, 1932		
	No.	Amount	Deficit	No.	Amount	Deficit
Deficit, December 1st:						
Hatchery Fund, No. 1.....		\$4,943.29				
Hatchery Fund, No. 2.....		2,368.51	\$7,311.80			
				Deficit, December 1st	\$ 27,034.75	
Gillnet Licenses.....	1305	\$ 9,787.50		1133	\$ 8,497.50	
Setnets @ \$3.75.....	814	3,052.50		572	2,145.00	
Setnets @ \$23.75.....	15	356.25		10	237.50	
Traps.....	52	1,300.00		50	1,250.00	
Seines.....	43	2,039.40		24	1,051.20	
Trolls.....	8	20.00		4	10.00	
Boatpullers.....	423	1,044.00		316	790.00	
Retail fish dealers and peddlers.....	1045	5,225.00		1046	5,230.00	
Buyers.....	42	84.00		75	150.00	
Wholesale Fish Dealers.....	119	2,492.00		108	2,700.00	
Salmon Cannery.....	11	275.00		8	200.00	
Shell Fish Cannery.....	6	70.08		7	107.04	
Brokers.....	4	200.00		3	150.00	
Boats or Scows.....	147	294.00		106	212.00	
Bagnets.....	42	194.00		80	400.00	
Clams.....	245	1,225.00		229	1,145.00	
Crabs.....	164	732.00		202	1,010.00	
Crawfish.....	43	199.00		22	110.00	
Oysters.....	2	10.00		1	5.00	
Setlines.....	80	172.00		64	64.00	
Transfers.....	40	40.00		0	.00	
		\$28,811.73			\$25,464.24	
Poundage fees, Salmon, Shad and Sturgeon.....		77,491.75			97,145.60	
Additional fees on Crabs.....		272.62			314.97	
Additional fees on Clams.....		84.78			157.45	
Additional fees on Oysters.....		107.71			73.55	
Fines.....		2,617.80			987.65	
Sale of Confiscated Property.....		1,919.30			280.73	
Sale of fish, Crab and Oyster Tags.....		110.00			1,495.49	
Sale of Fish Food to Game Commission.....		2,160.30			4,497.90	
Sundries.....		1,102.73			787.79	
		\$114,678.72			\$131,205.37	
Less 5 per cent deducted for Sinking Fund.....		5,733.94			6,560.27	
		\$108,944.78			\$124,645.10	
Money withdrawn from Sinking Fund and credited to Hatchery Fund.....		7,650.00	116,594.78		10,300.00	134,945.10
			\$109,282.98			\$107,910.35

## HATCHERY FUND—DISBURSEMENTS

	Dec. 1, 1930, to Nov. 30, 1931		Dec. 1, 1931, to Nov. 30, 1932	
Commissioners:				
Salaries.....	\$ 320.00		\$ 245.00	
Expenses.....	245.30	\$ 565.30	92.75	\$ 337.75
Master Fish Warden:				
Salary.....	\$ 3,600.00		\$ 3,450.00	
Expenses.....	360.45	3,960.45	166.90	3,616.90
Office Expense:				
Salaries.....	\$ 8,060.50		\$ 7,885.51	
Fares.....	289.98		277.77	
Auto Expense.....	.00		1.05	
Meals and Lodging.....	120.65		82.40	
General Office Supplies.....	280.23		143.40	
Telephone and Telegraph.....	553.19		475.86	
Postage.....	309.06		543.23	
Stationery and Printing.....	930.95		599.16	
Rent.....	2,026.00		2,016.00	
Freight, Cartage and Express.....	4.54		4.80	
Sundry.....	45.40		45.90	
Reports.....	406.06		.00	

## HATCHERY FUND—DISBURSEMENTS—Continued

	Dec. 1, 1930, to Nov. 30, 1931		Dec. 1, 1931, to Nov. 30, 1932	
Photos.....	.00		4.00	
Towel Supply and Laundry.....	18.00		18.00	
Newspapers and Periodicals.....	54.00		33.20	
File and Typewriter.....	19.50	13,118.06	72.55	12,202.83
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Patrol Service:				
Salaries.....	\$16,987.07		\$ 6,946.17	
Fares.....	1,651.12		75.98	
Gas and Oil.....	1,184.24		274.32	
Meals and Lodging.....	1,782.39		669.60	
Telephone and Telegraph.....	23.86		.00	
Postage.....	1.00		.00	
Freight, Cartage and Express.....	52.60		20.52	
Rent.....	476.67		294.25	
Supplies.....	587.91		264.55	
Repairs and Supplies.....	948.51		506.31	
Lumber.....	25.79		.00	
Equipment.....	.00	23,721.16	138.10	9,189.80
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State Police.....	4,235.29			12,705.88
Fishways.....	24.62			686.90
Investigations.....	1,113.62			50.00
Refunds.....	591.44			216.99
Motor Vehicles.....	3,831.73			2,124.66
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Miscellaneous:				
Interim Commission.....	\$ 242.09		\$ .00	
Surety Bonds.....	82.50		82.50	
Insurance.....	162.90		.00	
Workmen's Compensation Payments.....	1,718.16		2,067.52	
Restoration Fund.....	134.75		.00	
Legal Expense.....	892.53		.00	
Confiscated Property.....	57.05		.00	
Rewards.....	13.00		.00	
Game Reciprocal Fines.....	436.00		.00	
Ammunition.....	10.00		.00	
Audit.....	681.59		158.62	
Fish, Crab and Oyster Tags.....	350.00		392.40	
Photos and Films.....	34.60		.00	
Closing Streams.....	.00		18.80	
Washington Fish Reciprocal Tax.....	.00		15,254.52	
Survey and Maps.....	.00	4,815.17	89.75	18,064.11
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Distribution.....		367.43		398.06
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Fish Food:				
Labor.....	\$ 1,917.84		\$ 1,325.38	
Employees Expense.....	126.60		108.90	
Gas and Oil.....	223.74		298.53	
Repairs.....	44.73		37.58	
Boxes, Ammonia and Supplies.....	1,131.61		1,164.45	
Freight, Cartage and Express.....	486.75		1,003.86	
Storage and Freezing.....	949.92		4,514.21	
Fish Food.....	1,096.87		1,373.55	
Electricity and Water.....	1,578.79		591.50	
Cold Storage Construction, McKenzie.....	.00	7,556.85	1,975.76	12,393.72
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Director of Hatcheries:				
Salary.....	\$ 4,200.00		\$ 4,025.00	
Expenses.....	367.40	4,567.40	259.35	4,284.35
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Salmon Propagation:				
General Expenses.....	\$ 3,627.79		\$ 2,540.77	
Operation.....	55,370.32		45,120.64	
Maintenance.....	639.31		165.76	
Capital Outlay.....	8,211.79	67,849.21	10,598.68	58,425.85
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Deficit, November 30th.....		\$ 27,034.75		\$ 26,792.45
Outstanding Poundage Fees.....		\$61,420.57		\$88,601.00

**SALMON PROPAGATION**

December 1, 1930, to November 30, 1931

Station	General Expense	Operation	Maintenance	Capital Outlay	Total
McKenzie	\$ 411.46	\$3,100.85	\$ 80.37	\$ 526.85	\$4,119.53
Lower McKenzie	120.00	1,055.91	.00	28.80	1,204.71
McKenzie Egg Collecting	80.00	2,100.92	.00	389.04	2,569.96
Willamette	153.79	2,912.84	40.90	113.56	3,221.09
Willamette Egg Collecting	120.00	1,344.89	16.80	78.16	1,559.85
North Santiam	75.22	3,342.33	50.54	16.34	3,484.43
Breitenbush Egg Collecting	113.80	1,166.72	23.31	479.16	1,782.99
Bonneville	440.24	7,953.27	96.94	924.30	9,414.75
Klaskanine	262.58	3,547.00	115.52	146.95	4,072.05
Trask	322.24	4,083.07	41.84	978.01	5,425.16
Coos	79.30	3,118.16	.00	458.05	3,655.51
Wallowa	333.66	4,978.09	59.89	212.13	5,583.77
Umpqua	70.89	2,768.90	.00	655.82	3,495.61
South Santiam	145.06	2,357.33	53.41	166.06	2,721.86
Nestucca	140.16	637.10	.00	438.90	1,216.16
Herman Creek	53.35	2,132.87	15.90	322.68	2,524.80
Alsea	68.99	2,036.17	.00	672.53	2,777.69
Siuslaw	.00	1,557.04	26.90	505.37	2,089.31
Coquille	172.19	636.44	16.99	890.57	1,716.19
Nehalem	283.10	778.00	.00	.00	1,061.10
Yaquina	114.80	1,516.92	.00	208.51	1,840.23
U. S. Government Cooperation	.00	2,245.50	.00	.00	2,245.50
Salmon, Idaho	66.96	.00	.00	.00	66.96
	<b>\$3,627.79</b>	<b>\$55,370.32</b>	<b>\$ 639.31</b>	<b>\$8,211.79</b>	<b>\$67,849.21</b>

**SALMON PROPAGATION**

December 1, 1931, to November 30, 1932

Station	General Expense	Operation	Maintenance	Capital Outlay	Total
McKenzie	\$ 253.27	\$3,429.60	\$ .00	\$1,371.83	\$5,054.70
McKenzie Egg Collecting	82.90	1,775.71	.00	1,244.02	3,102.63
Willamette	79.05	2,892.26	6.35	284.76	3,262.42
Willamette Egg Collecting	232.00	629.71	.00	647.11	1,508.82
North Santiam	43.67	2,599.91	.00	319.95	2,963.53
Breitenbush Egg Collecting	6.00	687.41	.00	358.96	1,052.37
Bonneville	332.24	6,829.95	26.73	693.62	7,882.54
Klaskanine	194.18	3,680.49	83.20	129.81	4,087.68
Trask	342.50	3,203.03	4.67	656.73	4,206.93
Coos	70.09	2,677.40	.00	830.17	3,577.66
Wallowa	373.12	3,169.46	18.45	1,618.74	5,179.77
Umpqua	41.13	3,013.20	16.63	273.71	3,344.67
South Santiam	133.45	1,638.75	3.70	652.29	2,428.19
Nestucca	9.64	1,026.50	.00	42.96	1,079.10
Herman Creek	26.56	1,768.29	6.03	19.31	1,820.19
Alsea	64.20	2,509.90	.00	663.26	3,237.36
Siuslaw	.00	1,578.80	.00	171.78	1,750.58
Coquille	196.40	1,090.77	.00	619.67	1,906.84
U. S. Government Cooperation	.00	919.50	.00	.00	919.50
Salmon, Idaho	60.37	.00	.00	.00	60.37
	<b>\$2,540.77</b>	<b>\$45,120.64</b>	<b>\$ 165.76</b>	<b>\$10,598.68</b>	<b>\$58,425.85</b>

## FINANCIAL STATEMENT—YEAR ENDING NOVEMBER 30, 1931

## SEAL FUND—RECEIPTS

Balance, November 30, 1930:			
Seal and Sealion Fund, District No. 1.....	\$	581.30	
Seal and Sealion Fund, District No. 2.....		7.97	\$ 589.27
1305 Gillnet certificates @ \$ 2.50.....		\$3,262.50	
307 Setnet certificates @ 2.50.....		767.50	
8 Troll certificates @ 2.50.....		20.00	
52 Trap certificates @ 10.00.....		520.00	
40 Seine certificates @ 20.00.....		800.00	
11 Salmon Canner certificates @ 50.00.....		550.00	\$5,920.00
Less five per cent deducted for Sinking Fund.....		296.02	5,623.98
			<u>\$6,213.25</u>

## SEAL FUND—DISBURSEMENTS

Bounties	No. Seals	No. Sea-lions	Amount	Bounties	No. Seals	No. Sea-lions	Amount
Archer, Robert..... Portland.....	3	2	\$ 31.00	Makinster, C. C..... Garibaldi.....	9		90.00
Barker, C..... Portland.....	6		60.00	Martens, Bertel..... Astoria.....	2		20.00
Barnhard, Fred..... Empire.....	1		10.00	Mattson, Henry..... Astoria.....	2		20.00
Barrett, Howard..... Glenada.....	2		20.00	Miller, Dillon W..... Ophir.....	1		10.00
Bell, John H..... Svensen.....	11		110.00	Mustola, Ed..... Mayger.....	1		10.00
Berge, Ole..... Astoria.....	4		40.00	Nagle, Robert..... Charleston.....	1		10.00
Bjornsgard, Wesley M..... Astoria.....	1		10.00	Nagle, Stanley..... North Bend.....	1		10.00
Boentgen, Carl..... Knappa.....	2		20.00	Nickelsen, Ted..... Cannon Beach.....	1		10.00
Brown, Michael..... Westlake.....	35		350.00	Nizich, Jerry..... Oregon City.....	1		10.00
Burnum, H. M..... Harbor.....	1		10.00	Nousson, Jafet..... Brownsmead.....	1		10.00
Calkins, Loyd E..... Otis.....	1		10.00	Oppel, John A..... Astoria.....	5		50.00
Carnes, Archie..... Reedsport.....	128	2	1,281.00	Olsen, Henry J..... Netarts.....	3		30.00
Clendening, N..... Empire.....	48		480.00	Pearson, Carl E..... Svensen.....	1		10.00
Colegrove, Delmer, Jr..... Brookings.....	2		20.00	Puustinen, William..... Svensen.....	11		110.00
Curl, Marion..... Otis.....	1		10.00	Riddle, W. H..... Seaside.....	6		60.00
Doty, Lee..... Waldport.....	1		10.00	Saubert, Jack..... Florence.....	1		10.00
Eide, Stephen..... Skamokawa.....	20		200.00	Smith, Frank W..... Pistol River.....	1		10.00
Erickson, Albert..... Astoria.....	17		170.00	Smith, William..... Florence.....	1		10.00
Flues, Wayne..... Astoria.....	1		10.00	Stewart, V. M..... Netarts.....	1		10.00
Fox, John C..... Oswego.....	2		20.00	Swanson, Albert..... Astoria.....	2		20.00
Hanel, Geo..... Netarts.....	3		30.00	Siverson, Chris..... Astoria.....	5		50.00
Hatch, N. K..... Florence.....	1		10.00	Tate, Otis..... Hebo.....	1		10.00
Hillar, W. M..... Empire.....	8		80.00	Tobin, Geo..... Empire.....	2		20.00
Hobson, C. C..... Charleston.....	1		10.00	Walker, Sidney A..... Pistol River.....	2		20.00
House, H. L..... Tillamook.....	1		10.00	Whitten, Ernest..... Willamette.....	2		20.00
Jackson, Alex..... Astoria.....	1		10.00	Weston, F. E..... Florence.....	1		10.00
Johnson, Adolph..... Empire.....	1		10.00	Winegar, A. D..... Cushman.....	200		2,000.00
Johnson, Milo S..... Florence.....	1		10.00	Wooden, H., Sr..... Wedderburn.....	1		10.00
Kangas, Edward..... Taft.....	1		10.00	Woodruff, Geo. A..... Langlois.....	1		10.00
Kiminki, L. K..... Astoria.....	1		10.00				
Kingsbury, R. L..... Portland.....	1		10.00				
Kropsu, Elmer..... Astoria.....	3		30.00				
Lindstrom, Helmer..... Astoria.....	5		50.00				
				Salary.....	583	4	\$5,832.00
				Ammunition.....			50.00
							<u>26.88</u>
							\$5,908.88
Balance on hand November 30, 1931.....							\$ 304.37

## SUMMARY

583 Seal bounties @ \$10.00.....	\$5,830.00
4 Sealion bounties @ .50.....	2.00
	<u>\$5,832.00</u>

## FINANCIAL STATEMENT—YEAR ENDING NOVEMBER 30, 1932

## SEAL FUND—RECEIPTS

Balance on hand, November 30, 1931.....					\$ 304.37
1133 Gillnet certificates @ \$ 2.50.....		\$2,832.50			
241 Setnet certificates @ 2.50.....		602.50			
50 Trap certificates @ 10.00.....		500.00			
20 Seine certificates @ 20.00.....		400.00			
4 Troll certificates @ 2.50.....		10.00			
8 Canner certificates @ 50.00.....		400.00			
Cancellation of check.....		3.48		\$4,748.48	
Less five per cent deducted for Sinking Fund.....			237.43		4,511.05
					\$4,815.42

## SEAL FUND—DISBURSEMENTS

Bounties	No. Seals	Amount	Bounties	No. Seals	Amount
Abbott, Dewey.....	Reedsport.....	2 \$ 10.00	Miles, Agnes.....	Astoria.....	2 10.00
Adams, Dave.....	North Bend.....	1 5.00	Miller, Eldon.....	Ophir.....	4 20.00
Andrews, Posey.....	Hammond.....	1 5.00	Moberg, David.....	Astoria.....	2 10.00
Archer, Robt. D.....	Portland.....	5 25.00	Munson, E. M.....	Depos Bay.....	1 5.00
Archie, William.....	Bay City.....	5 25.00	Nagel, Joe W.....	North Bend.....	1 5.00
Baker, Elmer, Sr.....	Tillamook.....	2 10.00	Nagle, Robert H.....	Charleston.....	12 60.00
Bates, Bruce.....	Florence.....	1 5.00	Niemi, Axel.....	Astoria.....	2 10.00
Bechtolt, Ernest.....	Astoria.....	1 5.00	Niemi, John S.....	Astoria.....	1 5.00
Bernhoff, Axel.....	Astoria.....	3 15.00	Nizich, Jerry.....	Portland.....	1 5.00
Berthelsen, A.....	Astoria.....	5 25.00	Nousson, Jafet.....	Brownsmead.....	25 125.00
Biggs, Boyd.....	Tillamook.....	1 5.00	Olsen, Henry J.....	Netarts.....	7 35.00
Black, Joe B.....	Empire.....	3 15.00	Olson, Howard.....	Cloverdale.....	2 10.00
Boak, Stanley G.....	Reedsport.....	5 25.00	Penttila, Armas.....	Brownsmead.....	2 10.00
Boucher, V. L.....	Garibaldi.....	1 5.00	Peterson, E. L.....	Astoria.....	1 5.00
Brooks, F. B.....	Altoona, Wash.....	6 30.00	Peterson, Gordon.....	Hanser.....	3 15.00
Cannon, Mrs. N.....	Reedsport.....	1 5.00	Petrich, Anton.....	Astoria.....	2 10.00
Carr, John, Jr.....	Disston.....	1 5.00	Puustinen, Onni.....	Svensen.....	1 5.00
Clendening, N.....	Empire.....	7 35.00	Puustinen, Toivo.....	Svensen.....	29 145.00
Coffey, T. T.....	Svenson.....	3 15.00	Puustinen, William.....	Svensen.....	36 180.00
Cook, T. H.....	Tillamook.....	1 5.00	Reavis, Roy.....	Reedsport.....	5 25.00
Cox, Durward, A.....	Otis.....	1 5.00	Riggs, Claude.....	Bay City.....	1 5.00
Crippon, Ned.....	Toledo.....	1 5.00	Ringbom, Hugo.....	Astoria.....	1 5.00
Dean, Albert.....	Port Orford.....	2 10.00	Riser, A. C.....	Astoria.....	1 5.00
Douthitt, H.....	Oregon City.....	1 5.00	Rosentreter, F. W.....	Altoona, Wash.....	5 25.00
Duffield, G. J.....	Empire.....	1 5.00	Rudback, T.....	Astoria.....	1 5.00
Dwyer, R. E.....	Garibaldi.....	1 5.00	Schirmer, John F.....	Winant.....	2 10.00
Empo, W. T.....	Brownsmead.....	3 15.00	Scott, F. C.....	Lakeside.....	1 5.00
Erickson, Oscar.....	Astoria.....	4 20.00	Simonson, Toivo.....	Senside.....	1 5.00
Eskola, W.....	Astoria.....	1 5.00	Smith, David.....	Knapapa.....	14 70.00
Farmer, Delbert.....	Astoria.....	2 10.00	Smith, Ike.....	Wedderburn.....	2 10.00
Ferrie, Arthur.....	Charleston.....	2 10.00	Smith, Leonard.....	North Bend.....	3 15.00
Finucane, W. J.....	Oregon City.....	1 5.00	Smith, Louis C.....	Cannon Beach.....	2 10.00
Gates, Ben.....	Laurel.....	8 40.00	Soderstrom, Leonard.....	Astoria.....	1 5.00
Gizlavich, John M.....	Clifton.....	1 5.00	Spencer, Harry.....	Astoria.....	6 30.00
Haataja, Matt A.....	Astoria.....	2 10.00	Strauser, J. W.....	Willamette.....	2 10.00
Humbert, Wilbur.....	Marshfield.....	16 80.00	Sutherland, B. E.....	North Bend.....	1 5.00
Johnson, Arthur.....	Astoria.....	1 5.00	Takalo, Bob.....	Knapapa.....	3 15.00
Johnson, Raymond.....	Astoria.....	1 5.00	Talonen, John.....	Astoria.....	2 10.00
Kimmi, Eugene C.....	Yachats.....	1 5.00	Van Buren, W. M. S.....	Warrenton.....	1 5.00
Lammi, Nick.....	Clatskanie.....	1 5.00	Waldorf, Glen.....	Oswego.....	1 5.00
Larsen, Lauritz.....	Wedderburn.....	1 5.00	Wardoth, James William.....	Astoria.....	1 5.00
Lawson, Harry, Jr.....	Bandon.....	1 5.00	Welden, H. O.....	Lakeside.....	2 10.00
Lothgren, Carl A., Jr.....	Glenada.....	1 5.00	Whitten, E. R.....	Altoona, Wash.....	4 20.00
Luto, Ted C.....	Knapapa.....	22 110.00	Winegar, A. D.....	Cushman.....	13 65.00
Marip, John.....	Astoria.....	1 5.00			
Martens, Gideon.....	Astoria.....	1 5.00			
Merrithew, A. B.....	Lents.....	1 5.00			
			Ammunition.....		344 \$1,720.00
					40.61

Balance on hand November 30, 1932..... \$3,054.81

## SUMMARY

344 Seal bounties @ \$5.00..... \$1,720.00

## ARRESTS FOR VIOLATION OF COMMERCIAL FISHING LAWS

December 1, 1930, to November 30, 1931

Operating nets in closed streams	8
Operating nets during closed season	4
Dealing in food fish without license	10
Possession salmon during closed season	19
Foul-hooking food fish	22
Indians selling fish unlawfully	4
Operating nets above deadline	8
Wanton waste of food fish	2
Operating nets without license	4
Shipping clams during closed season	2
Failure to report and pay poundage fees	1
Possession of undersized crabs for sale	3
Setting net more than one-third across stream	2
Casting sawdust into waters of Coos Bay	1
Possession of wet net in boat during closed season	3
Setting net without proper monument	1
Total arrests	94

## ARRESTS AND DISPOSITION OF CASES

December 1, 1930, to November 30, 1931

County	Number of Arrests	Number of Convictions	Number Dismissed or Not Guilty	Amount of Fine Imposed	Amount of Fine Remitted	Number Paroled or Suspended	Number Imprisoned	Number Cases Continued for Sentence
Benton	1	1	1					
Clackamas	7	7		\$ 600.00			2	
Clatsop	10	10		500.00	\$ 50.00			
Columbia	4	4		350.00	100.00		2	
Coos	5	4	1	300.00				
Curry	3	3		150.00				
Douglas	5	5		275.00			3	
Gilliam	1	1		50.00				
Josephine	1	1		50.00				
Jackson	2	2		100.00				
Lake	1	1		50.00				
Lane	3	3		150.00	120.00			
Lincoln	6	6		375.00	300.00	1		2
Malheur	3	2	1	100.00				
Multnomah	5	5		260.00				
Tillamook	25	22	3	3,450.00	2,960.00	2	1	4
Umatilla	3	3		150.00				
Wasco	9	7	2	525.00	40.00		2	
	94	86	8	\$7,435.00	\$3,570.00	3	10	6

## ARRESTS FOR VIOLATION OF COMMERCIAL FISHING LAWS

December 1, 1931, to November 30, 1932

Operating nets in closed streams.....	26
Operating nets during closed season.....	16
Dealing in food fish without license.....	43
Possession of salmon during closed season.....	2
Foul-hooking food fish.....	52
Operating nets beyond deadline.....	6
Fishing without license.....	17
Setting net more than one-third across stream.....	3
Catching, sale and possession of small sturgeon.....	3
Possession of net in boat in closed waters.....	3
Digging over the limit of clams.....	3
Transporting crabs out of Coos County.....	2
Transporting fish without duplicate records.....	2
Killing sealion.....	1
Buying clams from an unlicensed digger.....	1
Setting a drift net.....	1
Seining fish out of a fish ladder.....	2
Total arrests.....	183

## ARRESTS AND DISPOSITION OF CASES

December 1, 1931, to November 30, 1932

County	Number of Arrests	Number of Convictions	Number Dismissed or Not Guilty	Amount of Fine Imposed	Amount of Fine Remitted	Number Paroled or Suspended	Number Imprisoned	Number Cases Continued for Sentence
Benton.....	2	2		\$ 75.00	\$ 50.00			
Clackamas.....	28	24	4	775.00	363.50	3	4	2
Clatsop.....	12	12		1,000.00	325.00		6	
Columbia.....	14	12	2	850.00	250.00	2	6	1
Coos.....	5	5		500.00		2	5	
Curry.....	12	10	2	420.00	280.00	6	7	
Douglas.....	9	6	3	375.00	310.00	1	2	1
Grant.....	3	3				3	3	
Harney.....	1	1		100.00	100.00			
Hood River.....	2	2		150.00			2	
Jackson.....	4	2	2	100.00	75.00			
Josephine.....	6	6		50.00		4	5	
Lane.....	8	7	1	650.00	370.00			
Lincoln.....	9	7	2	700.00	600.00		1	
Linn.....	4	3	1	75.00				
Malheur.....	1	1		50.00				
Marion.....	11	9	2	750.00	650.00			
Multnomah.....	11	9	2	650.00	425.00	2	4	
Polk.....	1	1		25.00	25.00	1	1	
Tillamook.....	17	9	8	700.00	700.00	1	3	
Umatilla.....	1	1		25.00				
Union.....	13	13		430.00	385.00		2	
Wallowa.....	1	1		50.00				
Wasco.....	6	3	3	75.00		1		
Washington.....	1		1					
Yamhill.....	1	1		25.00	25.00			
	183	150	33	\$8,600.00	\$4,933.50	26	51	4

**COMPARATIVE TABLE OF RECEIPTS AND DISBURSEMENTS FOR HATCHERY  
FUNDS FOR THE YEARS 1929, 1930, 1931 AND 1932**

**RECEIPTS**

	1929		1930		1931		1932	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Gillnet.....	1531	\$11,482.50	1401	\$10,507.50	1305	\$ 9,787.50	1133	\$ 8,497.50
Setnet @ \$3.75.....	1476	5,535.00	1092	4,095.00	814	3,052.50	572	2,145.00
Setnet @ \$23.75.....	64	1,520.00	35	831.25	15	356.25	10	237.50
Trap.....	62	1,240.00	72	1,540.00	52	1,300.00	50	1,250.00
Seine.....	47	2,149.50	45	2,160.60	43	2,039.40	24	1,051.20
Troll.....	43	107.50	45	112.50	8	20.00	4	10.00
Boatpuller.....	733	733.00	549	549.00	423	1,044.00	316	790.00
Retail Dealers and Peddlers...	674	3,370.00	762	3,810.00	1045	5,225.00	1046	5,230.00
Buyer.....	85	170.00	102	204.00	42	84.00	75	150.00
Wholesale Dealer.....	15	375.00	12	300.00	119	2,492.00	108	2,700.00
Salmon Canner.....	5	78.94	6	89.92	11	275.00	8	200.00
Shell Fish Canner.....	2	100.00	2	100.00	6	70.08	7	107.04
Broker.....	134	268.00	108	216.00	4	200.00	3	150.00
Boat or Scow.....	115	115.00	401	401.00	147	294.00	106	212.00
Bagnet.....	213	1,065.00	253	1,265.00	42	194.00	80	400.00
Clam.....	181	181.00	217	217.00	245	1,225.00	229	1,145.00
Crab.....	44	44.00	54	54.00	164	732.00	202	1,010.00
Crawfish.....	1	5.00	2	10.00	43	199.00	22	110.00
Oyster.....	50	50.00	64	64.00	2	10.00	1	5.00
Setline.....	167	167.00	85	85.00	80	172.00	64	64.00
Transfer.....	5642	\$28,756.44	5307	\$26,611.77	4650	\$28,811.73	4060	\$25,464.24
Poundage fees, Salmon, Shad, etc....	119,105.20		118,785.54		77,491.75		97,145.60	
Additional fees, Clams and Crabs....	539.23		252.20		357.40		472.42	
Additional fees, Oysters.....	3,715.65		90.44		107.71		73.55	
Fines.....	537.21		3,267.65		2,617.80		987.65	
Sale of Confiscated Property.....	464.72		822.61		1,919.30		280.73	
Sale of Fish Tags.....			110.00		110.00		1,495.49	
Sundries.....			4,727.06		3,263.03		5,285.69	
		\$153,118.45		\$154,557.27		\$114,678.72		\$131,205.37
Less five per cent for Sinking Fund..		7,655.91		7,727.85		5,733.94		6,560.27
		\$145,462.54		\$146,829.42		\$108,944.78		\$124,645.10
Money withdrawn from Sinking Fund and credited to Hatchery Fund....		9,500.00		18,000.00		7,650.00		10,300.00
		\$154,962.54		\$164,829.42		\$116,594.78		\$134,945.10
Balance November 30th, last.....	7,355.79		Deficit 1,613.04		Deficit 7,311.80		Deficit 27,034.75	
Net Receipts.....		\$162,318.33		\$163,216.38		\$109,282.98		\$107,910.35



## DISBURSEMENTS

	1929	1930	1931	1932
Commissioners:				
Salaries.....	\$ 315.00	\$ 230.00	\$ 320.00	\$ 245.00
Expenses.....	269.00	251.25	245.30	92.75
	<u>\$ 584.00</u>	<u>\$ 481.25</u>	<u>\$ 565.30</u>	<u>\$ 337.75</u>
Master Fish Warden:				
Salary.....	3,600.00	3,600.00	3,600.00	3,450.00
Expenses.....	369.20	336.60	360.45	166.90
	<u>\$ 3,969.20</u>	<u>\$ 3,936.60</u>	<u>\$ 3,960.45</u>	<u>\$ 3,616.90</u>
Office Expenses:				
Salaries.....	8,644.35	8,336.22	8,060.50	7,885.51
Expenses.....	4,633.90	4,831.55	5,057.56	4,317.32
	<u>\$13,278.25</u>	<u>\$13,167.77</u>	<u>\$13,118.06</u>	<u>\$12,202.83</u>
Patrol Service:				
Salaries.....	12,445.28	17,032.01	16,987.07	6,946.17
Expenses.....	5,101.17	7,322.42	6,734.09	2,243.63
	<u>\$17,546.45</u>	<u>\$24,354.43</u>	<u>\$23,721.16</u>	<u>\$ 9,189.80</u>
State Police.....	.00	.00	4,235.29	12,705.88
Fishways.....	39.33	50.21	24.62	686.90
Investigations.....	2,582.70	3,311.45	1,113.62	50.00
Refunds.....	106.08	252.92	591.44	216.99
Motor Vehicles.....	4,215.78	3,276.71	3,831.73	2,124.66
Miscellaneous:				
Interim Commission.....	.00	603.67	242.09	.00
Surety Bonds.....	111.00	111.00	82.50	82.50
Insurance.....	.00	141.75	162.90	.00
Workmen's Compensation.....	1,437.54	1,367.75	1,718.16	2,067.52
Restoration Fund.....	139.34	148.73	134.75	.00
Legal Expense.....	81.50	292.97	892.53	.00
Confiscated Property.....	.00	48.00	57.05	.00
Rewards.....	51.00	.00	13.00	.00
Game Reciprocal Fines.....	2,161.32	1,277.22	436.00	.00
Ammunition.....	29.87	21.84	10.00	.00
Audit.....	.00	24.58	681.59	158.62
Fish Tags.....	.00	5.00	350.00	392.40
Photos and Films.....	5.75	23.56	34.60	.00
Biennial Reports.....	499.25	.00	.00	.00
Damages paid to Sam Webb.....	650.00	.00	.00	.00
Closing Streams.....	116.90	.00	.00	18.80
Boats.....	.00	12,285.03	.00	.00
Reciprocal Fish Tax to Washington.....	16,474.35	13,046.27	.00	15,254.52
Survey and Maps.....	.00	.00	.00	89.75
	<u>\$21,757.82</u>	<u>\$29,397.37</u>	<u>\$ 4,815.17</u>	<u>\$18,064.11</u>
Distribution.....	766.65	361.49	367.43	398.06
Fish Food.....	5,616.45	7,385.70	7,556.85	12,393.72
Director of Hatcheries:				
Salary.....	4,200.00	4,200.00	4,200.00	4,025.00
Expenses.....	547.87	465.65	367.40	259.35
	<u>\$ 4,747.87</u>	<u>\$ 4,665.65</u>	<u>\$ 4,567.40</u>	<u>\$ 4,284.35</u>
Salmon Propagation:				
Operation.....	69,220.07	66,345.58	55,370.32	45,120.64
Construction.....	16,284.99	11,961.81	8,211.79	10,598.68
Equipment.....	1,836.31	407.68	.00	.00
Improvement.....	1,379.42	1,171.56	.00	.00
General Expense.....	.00	.00	3,627.79	2,540.77
Maintenance.....	.00	.00	639.31	165.76
	<u>\$88,720.79</u>	<u>\$79,886.63</u>	<u>\$67,849.21</u>	<u>\$58,425.85</u>
Total Disbursements.....	<u>\$163,931.37</u>	<u>\$170,528.18</u>	<u>\$136,317.73</u>	<u>\$134,697.80</u>
Deficit Each Year.....	1,613.04	7,311.80	27,034.75	26,792.45
Outstanding Poundage Fees accrued and payable prior to November 30th.....	\$ 31,067.21	\$ 34,489.31	\$ 61,420.57	\$ 88,601.00

## SALMON PROPAGATION

Station	1929 Totals	1930 Totals	1931 Totals	1932 Totals
McKenzie	\$ 5,844.60	\$ 7,013.52	\$ 4,119.53	\$ 5,054.70
Lower McKenzie	.00	2,444.63	1,204.71	.00
McKenzie Egg Collecting	3,754.47	112.21	2,569.96	3,102.63
Willamette	3,634.65	3,353.89	3,221.09	3,262.42
Willamette Egg Collecting	2,990.74	2,506.15	1,559.85	1,508.82
North Santiam	4,147.83	3,951.02	3,484.43	2,963.53
Breitenbush Egg Collecting	2,094.64	2,379.70	1,782.99	1,052.37
Bonneville	15,165.98	13,597.15	9,414.75	7,882.54
Klaskanine	4,857.28	4,316.89	4,072.05	4,087.68
Trask	7,304.81	6,413.77	5,425.16	4,206.93
Coos	6,639.88	3,900.94	3,655.51	3,577.66
Wallowa	9,784.90	8,695.13	5,583.77	5,179.77
Umpqua	4,234.99	4,359.24	3,495.61	3,344.67
South Santiam	2,099.17	2,255.69	2,721.86	2,428.19
Nestucca (Beaver Creek)	1,013.92	534.25	1,216.16	1,079.10
Herman Creek	2,277.28	2,731.36	2,524.80	1,820.19
Alsea	3,845.85	4,025.86	2,777.69	3,237.36
Siuslaw	2,852.94	2,687.45	2,089.31	1,750.58
Coquille	942.56	216.00	1,716.19	1,906.84
Nehalem	913.26	1,083.80	1,061.10	.00
Yaquina	.00	370.75	1,840.23	.00
Rogue	928.37	877.43	.00	.00
Scottsburg	177.60	100.00	.00	.00
Clearwater, Idaho	1,201.53	.00	.00	.00
U. S. Government Cooperation	1,883.75	1,898.75	2,245.50	919.50
Salmon, Idaho	129.79	61.05	66.96	60.37
	<u>\$88,720.79</u>	<u>\$79,886.63</u>	<u>\$67,849.21</u>	<u>\$58,425.85</u>

# **PACK OF CANNED SALMON ON THE COLUMBIA RIVER FROM THE INCEPTION OF THE INDUSTRY TO 1932**

Year	Number of Canneries	Chinook		Blueback		Silverside		Chum or Keta		Steelhead Trout		Total	
		Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value
1866												4,000	\$64,000
1867												18,000	288,000
1868												28,000	392,000
1869												100,000	1,350,000
1870												150,000	1,800,000
1871												200,000	2,100,000
1872												250,000	2,325,000
1873												250,000	2,250,000
1874												350,000	2,625,000
1875												375,000	2,250,000
1876												450,000	2,475,000
1877												380,000	2,052,000
1878	30											460,000	2,300,000
1879	30											480,000	2,640,000
1880	29											530,000	2,650,000
1881												550,000	2,475,000
1882												541,300	2,600,000
1883												629,400	3,147,000
1884												620,000	2,915,000
1885												553,800	2,500,000
1886												448,500	2,135,000
1887												356,000	2,124,000
1888	28											372,477	2,234,862
1889	21	266,697	\$1,600,182	17,797	\$101,051					25,391	\$108,587	309,885	1,809,820
1890	21	335,604	1,946,087	57,345	290,069					42,825	171,300	435,774	2,407,456
1891	22	353,907	2,038,566	15,482	284,242					29,564	118,156	398,953	2,440,964
1892	24	344,267	1,996,388	66,547	372,909	4,176	20,880			72,348	288,892	487,338	2,679,069
1893	24	288,773	1,559,374	30,459	152,295	29,107	116,428	2,311	\$6,933	65,226	260,904	415,876	2,095,934
1894	24	351,106	1,896,976	43,814	224,430	42,758	171,032			52,422	209,688	490,100	2,501,126
1895	24	444,909	2,428,658	18,015	86,523	96,601	329,683	22,493	62,591	40,678	203,542	634,696	3,110,997
1896	24	370,943	1,804,511	10,983	81,518	44,108	141,145			49,663	198,652	481,697	2,261,826
1897	22	432,753	1,804,221	12,972	51,888	60,850	107,762			46,140	165,440	552,721	2,219,311
1898	23	328,566	1,490,394	66,670	300,015	65,431	222,465			26,277	60,352	487,933	2,073,226
1899	17	255,824	1,458,175	23,960	134,723	28,608	112,055	11,379	33,836	11,994	39,186	332,774	1,777,975
1900	16	262,392	1,821,258	13,162	92,184	44,925	202,163	17,666	63,706	20,597	102,985	358,772	2,282,296
1901												390,183	1,542,660
1902	14	270,580	1,428,743	17,037	86,465	10,532	44,732	10,401	41,604	8,593	42,965	317,143	1,644,509
1903	16	301,762	1,610,614	8,383	42,867	12,181	49,869	10,000	37,500	7,251	36,255	339,577	1,777,105
1904	20	320,378	1,944,690	12,911	78,048	31,254	118,357	20,693	52,691	9,868	48,892	395,104	2,242,678
1905	19	327,106	1,962,636	7,768	46,608	26,826	114,011	25,751	65,206	9,822	49,110	397,273	2,237,571
1906	19	311,334	1,868,007	7,816	54,712	41,446	124,338	27,802	68,505	6,500	32,500	394,898	2,149,062
1907	19	258,433		5,504	31,757			22,556		5,921		324,171	1,763,490
1908	14	210,096		8,581	31,432			16,884		10,726		253,341	1,380,708
1909	15	162,131	1,203,546	*27,908	214,561	42,178	185,070	24,542	57,115	17,283	99,796	†274,087	1,760,088
1910	15	244,285	1,882,137	6,234	34,287	68,922	363,688	66,538	232,883	5,436	31,203	391,415	2,544,198
1911	15	405,862	2,204,185	5,988	47,904	79,416	549,478	53,471	203,198	8,594	47,399	543,331	3,052,164
1912	15	220,317	1,988,526	8,210	85,384	31,842	177,248	18,699	46,590	6,958	22,108	285,666	2,319,856
1913	15	192,110	1,664,670	11,152	93,677	40,969	175,412	13,303	29,486	8,939	49,142	266,479	2,012,387
1914	17	289,464	2,573,502	35,311	376,924	69,769	380,666	49,285	205,541	10,792	59,356	454,621	3,595,989
1915	19	406,486	3,694,361	5,459	56,707	33,336	173,234	86,530	251,632	26,723	129,358	558,534	4,305,292
1916	20	395,166	3,572,203	3,790	27,288	52,084	335,114	77,766	307,483	18,999	118,987	547,805	4,361,075
1917	20	403,637	5,023,529	7,968	111,552	64,299	700,680	53,659	386,596	23,783	292,538	555,218	6,530,930
1918	20	400,952	5,222,983	37,833	605,328	98,145	1,072,843	29,846	215,669	24,605	350,071	591,381	7,466,924
1919	21	382,125	5,455,550	7,268	145,360	80,728	1,142,767	75,493	541,989	14,414	205,254	580,028	7,490,920
1920	22	420,467	5,661,580	2,617	62,808	27,024	257,806	18,792	99,504	12,645	116,859	481,545	6,198,617
1921	20	267,582	3,761,321	6,045	120,900	34,381	233,372	4,821	19,751	10,142	68,266	323,241	4,203,649
1922	23	237,230	3,724,393	30,743	614,860	90,437	633,935	8,844	47,130	24,920	186,675	392,174	5,206,993
1923	23	289,586	4,967,657	38,309	766,180	101,554	673,954	25,508	135,168	25,968	187,965	480,925	6,730,924
1924	22	293,716	4,508,236	7,366	129,840	112,308	992,865	57,748	303,356	29,734	285,107	500,872	6,219,404
1925	21	350,809	5,423,129	5,650	106,220	113,554	1,488,855	55,812	272,398	14,637	177,866	540,452	7,468,468
1926	21	295,302	4,744,113	21,736	434,720	97,142	1,027,597	32,853	181,216	32,690	356,418	479,723	6,744,064
1927	22	339,446	5,559,202	6,887	147,378	74,879	585,816	68,449	425,240	30,148	311,070	519,809	7,028,705
1928	24	251,404	4,355,218	4,814	100,131	49,136	478,355	124,953	747,619	16,339	222,139	440,646	5,903,462
1929	21	242,938	4,234,214	10,072	181,296	90,684	917,561	54,619	314,928	23,804	257,025	422,117	5,908,024
1930	21	281,346	4,092,810	9,823	194,460	110,430	1,156,042	11,371	45,324	16,535	171,541	429,505	5,658,175
1931	20	294,798	3,754,929	4,125	66,000	39,263	247,878	3,518	11,764	11,990	110,429	353,699	4,191,000
1932	20	216,511	2,023,390	2,795	33,540	46,492	280,853	17,261	44,879	13,132	91,924	296,191	2,474,586

27,010,150 \$209,862,550

\*Of these, 2,846 cases, valued at \$23,203, were packed with Sockeyes brought from Puget Sound.

†55 cases of Humpbacks, valued at \$132, were also packed with Humpbacks brought from Puget Sound.

(We are able to show the above table, including the 1932 figures, through the courtesy of the Pacific Fisherman.)

Portland, Oregon, December 31, 1932.

To the

Honorable John C. Veatch, Chairman,

Honorable C. A. Leinenweber,

Honorable R. S. Farrell,

MEMBERS of the FISH COMMISSION of the STATE OF OREGON.

Gentlemen:

I have the honor to submit the following resume of the operation of the Department of Fish Culture during the biennium ending November 30th, 1932.

Only by more extensive and scientific application of the Oregon hatchery system can the present standard output of the industry be maintained. What might be termed an industrial, vari-colored map of the Columbia River Basin, based on data carefully collected over a period of fifteen years, has been prepared by the Fish Commission during the current year. Close scrutiny reveals the fact that approximately 50% of the most important productive area within the basin has been lost to the industry by the construction of dams for irrigation and power, thus isolating spawning areas. Unfortunately, these many water sheds that go to form this depleted area, at one time produced not only Chinook salmon of the highest quality, but the famous Blueback of the Columbia and the September run of Silvers.

Since improved fishways have been built over many of the dams and screens have been installed at the intakes to ditches and canals in some of the depleted areas, a united effort should be made to restock such waters by introducing only the much-sought-after fancy stock. These areas are altogether in the mid and upper Columbia districts, and any attempt to rehabilitate the tributaries which have their sources in the Cascades or east thereof with inferior stock, generally referred to as tule, will prove to be a waste of time, money and material.

The run of Spring Chinooks in the Columbia river in the year 1931 was slightly below normal, while the Summer and Fall runs, like the Silver and Steelhead, were satisfactory.

All runs in the coastal streams during the same year were fairly satisfactory, although the Silver run did not compare favorably with the runs of 1925-26. In the year 1932, the very early Spring run in the Columbia river was noticeably light, with but very few specimens ascending the Yakima, in Washington, or the Salmon river in Idaho. However, the run entering the Columbia during the spring proved to be equal to expectations. The summer run of Chinook was quite constant; Fall Chinooks appeared in vast numbers; the Steelhead run was satisfactory; but the Silvers were not abundant.

The coastal streams are in a fairly healthy condition, as the runs of fish were satisfactory, and in some instances showed an improvement. The increase in numbers of fish entering the larger two of these rivers, the Rogue and Umpqua, both of which have sources in the Cascade Mountains, was especially noticeable during 1932. The past season, which was anything but suitable for open sea trolling, from either a climatic or an economic point, might have provided for a better escapement of Silvers than usual, by permitting them to enter the rivers in vast numbers.

The closing of the Nestucca river in 1927 to commercial fishing, in an effort to improve angling, has proved disappointing. Since nets have been removed, the fish lie in the bay undisturbed, and rarely reach the river while they are still bright. Anglers who are familiar with conditions, frequently complain, as their catches are usually disappointing. Fish ascend the Nestucca in hordes during freshets, and become an economic loss. Commercial fishing in this river would add materially to the wealth of the state, and at the same time relieve the distress of the farmers owning the adjacent lands.

Recently there have been two additional major dams added to the vast number in the Columbia River Basin. The effect of these dams will not be felt by the industry until the fourth or fifth year cycle. These are (1) the Ariel dam, which completely forbids the spring run of Chinook and Steelheads to ascend to the upper reaches of the Lewis river, and (2) the Wenatchee dam across the Columbia, which questions the right of the Spring salmon and the Steelheads to ascend north from that point to that vast territory which they have been accustomed to frequenting for centuries.

There is no provision made in the Ariel dam for the ascent of fish, and for that reason the runs of Steelhead and Spring Chinook are doomed. The fishways over the Wenatchee dam can be perfected, in view of the fact that while the dam impedes the ascent of fish, numbers of them passed on into the upper reaches last summer, which was the first year in which the fishways were in operation.

In Oregon the streams in which salmon usually spawn are equipped with fairly good fishways over the dams and, with the exception of barriers found in the Clackamas and Rogue rivers, no high structures have been built. During the seasons of the year at which salmon congregate at the foot of these dams and natural barriers, attendants are stationed about to protect the fish and to aid them in their ascent by regulating the flow of water through fishways. While this is of utmost importance and is a part of the Commission's work, it can be accomplished only by the expenditure of money. Therefore, every time a new dam is built, an extra expense is taken on. Fortunately for the industry, there have been no dams of consequence built in Oregon during the biennium which has just ended.

The Fish Commission of Oregon was among the first of state departments to aid and cooperate with the U. S. Bureau of Fisheries in scientific research work. This work has been carried on for practically twenty years, and much valuable data concerning artificial propagation and natural history of Pacific Coast salmons has been gathered. Much is still unknown that would no doubt be of valuable assistance in the work, and further investigation will be undertaken as soon as funds are available. The Commission is furnished the results of the data collected by the Bureau of Fisheries in its scientific research regarding salmon in Alaskan waters.

At this time a pamphlet, which will be available early in the spring, is being prepared concerning the natural history of salmon, their propagation and the industrial value of the whole. Letters are received from every state in the union requesting such information for use in schools. Heretofore, persons requesting such matter have been furnished a brief sketch of the life history of the salmon in loose leaf form. The schools have been provided with glass specimen tubes showing the different stages of incubation, and some thirty-five schools in Portland are also furnished annually a few hundred eyed Silver salmon eggs which are hatched in the schools and the resulting fish fed in aquariums there as part of the Nature Study Course.

Due to the peculiar geographical position of the Bonneville Station, which is situated on the Columbia River Highway, many thousands of tourists visit it annually. These people who come from the various parts of the United States and foreign countries, are shown every courtesy upon visiting Bonneville, and they display their amazement and interest in what the Commission is accomplishing, especially if they happen to be present at that season of the year when the large adult fish are returning from the sea to the very ponds in which they were raised.

Respectfully,

HUGH C. MITCHELL,

Director of the Department of Fish Culture.

Showing the number of salmon and steelhead eggs collected at stations operated by the Fish Commission of the State of Oregon during the year 1931:

Fisheries Station	Spring Chinook	Fall Chinook	Silver Salmon	Steelheads	Landlocked and Sea-run Blueback	Sockeyes	Totals
McKenzie.....	5,095,000						5,095,000
Willamette.....	5,033,000						5,033,000
Santiam.....	2,504,000			1,609,000			4,113,000
Bonneville.....	3,576,180	1,299,060					4,875,240
Klaskanine.....	894,576		1,812,170	33,760			2,740,506
Trask.....	1,475,000		1,585,000	411,000			3,471,000
Coos.....	332,000	1,475,000	4,439,500	1,620,500			7,867,000
Wallowa.....	502,100		213,160		1,565,820		2,281,080
Umpqua.....	4,900,664						4,900,664
South Santiam.....	329,417			1,010,308			1,339,725
Nestucca.....	1,985,000		4,130,000	546,724			6,661,724
Herman Creek.....	77,540					108,000	185,540
Alsea.....			657,000	289,000			946,000
Siuslaw.....			1,610,000	269,000			1,879,000
Coquille.....			98,000				98,000
Cooperative Stations--U. S. Bureau.....	4,015,620					4,651,860	8,667,480
Grand Totals.....	30,720,097	2,774,060	14,544,830	5,789,292	1,565,820	4,759,860	60,153,959

Showing the number of salmon and steelhead fingerlings liberated into the waters of the State of Oregon by the Fish Commission during the year 1931:

Fisheries Station	Spring Chinook	Fall Chinook	Silver Salmon	Steel- heads	Landlocked Blueback	Sockeyes	Totals	Where Liberated
McKenzie	6,030,946	.....	.....	.....	.....	.....	6,030,946	Gate Cr.—McKenzie R. Trib.
Lower McKenzie Sta.	3,814,600	.....	.....	.....	.....	.....	3,814,600	McKenzie R.—Willamette R. Trib.
Willamette	7,155,425	.....	.....	.....	.....	.....	7,155,425	Salmon Cr.—Willamette R. Trib.
Santiam	6,197,660	.....	.....	.....	.....	.....	6,197,660	Stout Cr., No. Santiam R.—Will. R. Trib.
Santiam Egg Coll. Sta.	.....	.....	.....	1,219,500	.....	.....	1,219,500	Hunts Cove L., Breitenbush R.—Will. R. Trib.
Bonneville	4,056,570	8,070,400	.....	.....	.....	1,944,040	14,071,010	Tanner Cr.—Columbia R. Trib.
Klaskanine	965,643	1,907,702	3,987,274	327,951	.....	.....	7,188,570	Klaskanine R.—Youngs Bay Trib.
Trask	4,652,150	380,180	2,912,030	344,450	.....	.....	8,288,810	Gold Cr., Trask, Wilson, Kilches, Miama, Tillamook, Siletz and Salmon Rivers.
Coos	142,960	468,400	1,849,575	707,484	.....	.....	3,168,419	South Coos River.
Wallowa	2,958,000	.....	.....	.....	2,982,000 592,400	.....	5,940,000 592,400	Wallowa River—Snake River Trib.
Umpqua	5,314,008	.....	.....	.....	.....	.....	5,314,008	Umpqua River.
South Santiam	1,563,026	.....	.....	766,716	.....	.....	2,329,742	So. Santiam R.—Santiam R. Trib.
Nestucca	1,013,130	.....	.....	.....	.....	.....	1,013,130	Beaver Cr.—Nestucca R. Trib.
Herman Creek	.....	.....	.....	.....	.....	2,591,175	2,591,175	Herman Cr.—Columbia R. Trib.
Alsea	814,520	.....	1,393,900	281,760	.....	.....	2,490,180	Alsea River.
Siuslaw	570,335	.....	1,249,350	267,975	.....	.....	2,087,660	Lake Cr.—Siuslaw R. Trib.
Coquille	.....	.....	1,263,805	.....	.....	.....	1,263,805	Coquille River.
Nehalem	1,465,500	.....	506,700	.....	.....	.....	1,972,200	Bobs, Anderson, Coal, No. Nehalem, Big Rackheap, Little Rackheap, Roy East Foley, Soapstone and Banatol Creeks, Nehalem River.
Yaquina	.....	972,270	.....	.....	.....	.....	972,270	Yaquina River.
Grand Totals	46,714,473	11,798,952	13,162,634	*3,915,836	3,574,400	4,535,215	83,701,510	

\*Part of the Steelhead collections at North Santiam and South Santiam were turned over to the Game Commission for release into Roaring River.

Part of the Steelhead collections at Nestucca were turned over to the Game Commission for release into Three Rivers.

## Stock on hand as of November 30th, 1931:

Fisheries Station	Spring Chinook	Fall Chinook	Silver Salmon	Landlocked and Sea-run Blueback	Sockeyes	Totals
McKenzie.....	5,030,080	.....	.....	.....	.....	5,030,080
Willamette.....	4,772,400	.....	.....	.....	.....	4,772,400
Santiam.....	2,358,620	.....	.....	.....	.....	2,358,620
Bonneville.....	5,402,103	1,243,605	.....	.....	4,877,775	11,523,483
Klaskanine.....	2,870,281	.....	1,736,966	.....	.....	4,607,247
Trask.....	3,343,000	.....	.....	.....	.....	3,343,000
Coos.....	319,000	1,098,000	1,096,000	.....	.....	2,513,000
Wallowa.....	497,840	.....	213,160	1,038,300	.....	1,749,300
Umpqua.....	3,654,410	.....	.....	.....	.....	3,654,410
South Santiam.....	321,245	.....	.....	.....	.....	321,245
Nestucca.....	54,700	.....	131,300	.....	.....	186,000
Herman Creek.....	.....	.....	.....	.....	1,593,350	1,593,350
Alsea.....	496,750	.....	134,900	.....	.....	631,650
Siuslaw.....	499,650	.....	420,000	.....	.....	919,650
Coquille.....	.....	.....	43,000	.....	.....	43,000
Grand Totals.....	29,620,079	2,341,605	3,775,326	1,038,300	6,471,125	43,246,435

NOTE: No Steelheads on hand November 30th. This species is usually liberated in the fall of the year.



Showing the number of salmon and steelhead eggs collected at stations operated by the Fish Commission of the State of Oregon during the year 1932:

Fisheries Station	Spring Chinook	Fall Chinook	Silver Salmon	Steelheads	Sockeyes	Chums	Totals
McKenzie.....	18,841,000	.....	.....	.....	.....	.....	18,841,000
Willamette,.....	10,055,000	.....	.....	.....	.....	.....	10,055,000
Santiam.....	8,499,000	.....	.....	.....	.....	.....	8,499,000
Bonneville.....	7,673,600	2,391,200	.....	.....	326,700	.....	10,391,500
Klaskanine.....	126,048	.....	5,681,097	226,760	.....	.....	6,033,905
Trask.....	3,612,200	.....	2,346,900	.....	.....	.....	5,959,100
Coos.....	501,000	1,334,000	3,029,000	1,447,500	.....	.....	6,311,500
Wallowa.....	1,021,280	.....	.....	.....	.....	.....	1,021,280
Umpqua.....	3,402,800	.....	.....	.....	.....	.....	3,402,800
South Santiam.....	2,005,000	.....	.....	1,480,967	.....	.....	3,485,967
Nestucca.....	782,800	.....	1,525,700	913,000	.....	.....	3,221,500
Herman Creek.....	.....	11,900	.....	.....	55,080	.....	66,980
Alsea.....	133,000	.....	.....	.....	.....	.....	133,000
Siuslaw.....	.....	.....	480,000	.....	.....	.....	480,000
Coquille.....	.....	.....	36,000	19,000	.....	.....	55,000
Cooperative Stations—U. S. Bureau.....	2,000,000	500,500	.....	.....	3,010,560	400,360	5,911,420
Grand Totals.....	58,652,728	4,237,600	13,098,697	4,087,227	3,392,340	400,360	83,868,952

Showing the number of salmon and steelhead fingerlings liberated into the waters of the State of Oregon by the Fish Commission during the year 1932:

Fisheries Station	Spring Chinook	Fall Chinook	Silver Salmon	Steel- heads	Landlocked and Sea-run Blueback	Sockeyes	Chums	Totals	Where Liberated
McKenzie.....	4,958,800	.....	.....	.....	.....	.....	.....	4,958,800	Gate Cr.—McKenzie R. Trib.
Willamette.....	4,758,900	.....	.....	.....	.....	.....	.....	4,758,900	Salmon Cr.—Will. R. Trib.
Santiam.....	2,246,000	.....	.....	.....	.....	.....	.....	2,246,000	Santiam River.
Bonneville.....	4,085,000	1,700,575	.....	.....	.....	1,787,020	264,900	7,837,495	Salmon R., Sandy R., Tanner Cr.— Col. R. Trib.
Klaskanine.....	2,803,836	.....	2,019,936	526,096	.....	.....	.....	5,349,868	Klaskanine R.—Youngs Bay Trib.
Trask.....	2,873,100	.....	856,910	487,280	.....	.....	.....	4,217,290	Gold Cr., Foley Cr., Nehalem, Siletz Trask R.
Coos.....	296,128	1,185,400	1,529,445	656,662	.....	.....	.....	3,667,635	South Coos River.
Wallowa.....	1,500,000	.....	200,000	.....	1,426,000	.....	.....	3,126,000	Wallowa R.—Snake R. Trib.
Umpqua.....	3,651,425	.....	.....	.....	.....	.....	.....	3,651,425	Umpqua River.
South Santiam.....	320,565	.....	.....	1,081,378	.....	.....	.....	1,401,943	So. Santiam R.—Santiam R. Trib.
Herman Creek.....	.....	.....	.....	.....	.....	1,483,770	.....	1,483,770	Herman Cr.—Col. R. Trib.
Alsea.....	489,025	.....	743,725	110,600	.....	.....	.....	1,343,350	Alsea River.
Siuslaw.....	497,800	.....	624,100	.....	.....	.....	.....	1,121,900	Siuslaw River.
Coquille.....	.....	.....	579,722	18,250	.....	.....	.....	597,972	Coquille River.
Grand Totals.....	28,480,579	2,885,975	6,553,838	*2,880,266	1,426,000	3,270,790	264,900	45,762,348	

\*Part of the Steelhead collections at South Santiam were turned over to the Game Commission for release into Roaring River.

Part of the Steelhead collections at Nestucca were turned over to the Game Commission for release into Three Rivers.

## Stock on hand as of November 30th, 1932:

Fisheries Station	Spring Chinook	Fall Chinook	Silver Salmon	Landlocked and Sea-run Blueback	Sockeyes	Totals
McKenzie.....	8,146,060	.....	.....	.....	.....	8,146,060
Willamette.....	7,489,034	.....	.....	.....	.....	7,489,034
Santiam.....	5,232,800	.....	.....	.....	.....	5,232,800
Bonneville.....	9,797,085	279,600	.....	.....	4,459,270	14,535,955
Klaskanine.....	4,056,430	.....	5,153,719	.....	.....	9,210,149
Trask.....	5,805,950	.....	2,631,800	.....	.....	8,437,750
Coos.....	1,353,144	1,160,000	445,000	.....	.....	2,958,144
Wallowa.....	3,047,440	.....	.....	33,000	.....	3,080,440
Umpqua.....	3,274,363	.....	.....	.....	.....	3,274,363
South Santiam.....	1,989,865	.....	.....	.....	.....	1,989,865
Nestucca.....	317,500	.....	86,100	.....	.....	403,600
Herman Creek.....	.....	.....	.....	.....	1,982,630	1,982,630
Alsea.....	2,204,340	.....	.....	.....	.....	2,204,340
Sisulaw.....	1,019,500	.....	200,000	.....	.....	1,219,500
Coquille.....	302,586	.....	.....	.....	.....	302,586
Grand Totals.....	54,036,097	1,439,600	8,516,619	33,000	6,441,900	70,467,216

NOTE: No Steelheads on hand November 30th. This species is usually liberated in the fall of the year.

## SUMMARY

Showing the total number of eggs collected during the years 1931 and 1932:

	Spring Chinook	Fall Chinook	Silver Salmon	Steelheads	Landlocked and Sea-run Blueback	Sockeyes	Chums	Totals
Total Egg Take—1931.....	30,720,097	2,774,060	14,544,830	5,789,292	1,565,820	4,759,860	.....	60,153,959
Total Egg Take—1932.....	58,652,728	4,237,600	13,098,697	4,087,227	.....	3,392,340	400,360	83,868,952
Grand Totals.....	89,372,825	7,011,660	27,643,527	9,876,519	1,565,820	8,152,200	400,360	144,022,911

Showing the total liberations during the years 1931 and 1932:

	Spring Chinook	Fall Chinook	Silver Salmon	Steelheads	Landlocked and Sea-run Blueback	Sockeyes	Chums	Totals
Total Liberation—1931.....	46,714,473	11,798,952	13,162,634	3,915,836	3,574,400	4,535,215	.....	83,701,510
Total Liberation—1932.....	28,480,579	2,885,975	6,553,838	2,880,266	1,426,000	3,270,790	264,900	45,762,348
Grand Totals.....	75,195,052	14,684,927	19,716,472	6,796,102	5,000,400	7,806,005	264,900	129,463,858

TABLE OF 1931 LIBERATIONS

Species Liberated	Number Liberated	Size Inches	Age Months
Spring Chinook.....	46,714,473	2 —4½	7—14
Fall Chinook.....	11,798,952	2 —3½	5— 8
Silver Salmon.....	13,162,634	2 —8	6—14
Steelhead.....	3,915,836	1½—3	4— 6
Landlocked Bluebacks.....	3,574,400	3½—4½	13—16
Sockeyes.....	4,535,215	5 —8	16—17
Total Liberated.....	83,701,510		

TABLE OF 1932 LIBERATIONS

Species Liberated	Number Liberated	Size Inches	Age Months
Spring Chinook.....	28,480,579	2 —5	7—14
Fall Chinook.....	2,885,975	3 —3½	6—10
Silver Salmon.....	6,553,838	2½—4	7—12
Steelheads.....	2,880,266	1¼—4	3— 7
Landlocked Bluebacks.....	1,426,000	2	12—13
Sockeyes.....	3,270,790	4 —5½	18
Chums.....	264,900	2¾	8
Total Liberated.....	45,762,348		

## FISHERIES STATIONS OPERATED BY THE FISH COMMISSION OF OREGON

Station	Stream	Post Office	In Charge
McKenzie.....	McKenzie River (trib. of Willamette R.)	Vida, Oregon.....	Walter Carter
Willamette.....	Willamette R. (trib. of Columbia R.)	Oakridge, Oregon.....	Chas. J. Hills
Santiam.....	Santiam River (trib. of Willamette R.)	Stayton, Oregon.....	LeRoy Ledgerwood
Bonneville.....	Tanner Creek (trib. of Columbia R.)	Bonneville, Oregon.....	E. J. W. Anderson
Klaskanine.....	Klaskanine River (trib. of Youngs Bay)	Astoria, Oregon, M.R.A.	L. W. Hickey
Trask.....	Trask River (trib. of Tillamook Bay)	Tillamook, Oregon.....	Chas. Buckbee
Coos.....	S. Coos River (trib. of Coos Bay)	Marshfield, Oregon.....	Frank W. Smith
Wallowa.....	Wallowa River (trib. of Snake R.)	Enterprise, Oregon.....	Irvine French
Umpqua.....	Umpqua River (trib. of Winchester Bay)	Idleyld Park, Oregon.....	Lee McCarn
South Santiam.....	S. Santiam River (trib. of Santiam R.)	Foster, Oregon.....	C. R. Ellis
Nestucca.....	Nestucca River (trib. of Nestucca Bay)	Beaver, Oregon.....	Tom Nicklaus
Herman Creek.....	Herman Creek (trib. of Columbia R.)	Cascade Locks, Oregon.....	(Under Bonneville Sta.)
Alsea.....	Alsea River (trib. of Alsea Bay)	Tidewater, Oregon.....	Roy Frame
Siuslaw.....	Siuslaw River.....	Swishhome, Oregon.....	Jess J. Bales
Coquille.....	S. Coquille River (trib. of Coquille R.)	Powers, Oregon.....	(Under S. Coos Sta.)
Nehalem.....	Nehalem River (trib. of Nehalem Bay)	Nehalem, Oregon.....	L. W. Strauss
Rogue.....	Rogue River.....	Gold Beach, Oregon.....	(Closed awaiting voters' decision)
Yaquina.....	Simpson Creek (trib. of Yaquina Bay)	Chitwood, Oregon.....	(Yaquina to receive stock from other stations. Station temporarily closed as an economic measure.)