

BIENNIAL REPORT
 OF THE
FISH COMMISSION
 of the State of Oregon
 TO THE
 GOVERNOR AND THE THIRTY-FOURTH
 LEGISLATIVE ASSEMBLY
 1927



FISH COMMISSION OF THE STATE OF OREGON	
HON. JOHN C. VEATCH, <i>Chairman</i>	Portland
HON. WALTER T. EAKIN.....	Astoria
HON. J. S. HAYES.....	Bay City
<hr/>	
EDISON I. BALLAGH.....	<i>Master Fish Warden</i>
R. E. CLANTON.....	<i>Director of Hatcheries</i>

LETTER OF TRANSMITTAL

Portland, Oregon, December 2, 1926.

To the
Honorable John C. Veatch,
Honorable W. T. Eakin,
Honorable J. S. Hayes,

MEMBERS of the FISH COMMISSION of the STATE OF OREGON:

Gentlemen:

You will find herewith the Financial Statement of the Master Fish Warden for the fiscal years of 1925 and 1926. The first nine months of the report of 1925 was under the supervision of the former Master Fish Warden, Mr. Albert C. Ross. The balance of the year 1925 and the entire year 1926 were under my direct charge.

Respectfully submitted,

EDISON I. BALLAGH,
Master Fish Warden.

REPORT OF MASTER FISH WARDEN

HATCHERY FUND, DISTRICT NO. 1

RECEIPTS

Dec. 1, 1924, to Nov. 30, 1925			Dec. 1, 1925, to Nov. 30, 1926		
No.	Amount	Balance	No.	Amount	Balance
Balance on hand December 1.....		\$ 34,872.78	Balance December 1..	\$	28,181.91
Gill-net licenses.....	975	\$7,312.50	993	\$7,447.50	
Set-net licenses	256	960.00	304	1,140.00	
Trap or pound nets.....	55	1,065.00	55	1,045.00	
Stationary wheels	18	630.00	18	630.00	
Scow fish wheels.....	11	275.00	12	300.00	
Seines	44	2,102.70	59	2,660.40	
Trolls	108	270.00	106	265.00	
Boat pullers	655	655.00	589	589.00	
Retail fish dealers.....	463	2,315.00	490	2,450.00	
Wholesale fish dealers.....	46	92.00	49	98.00	
Salmon canners	13	325.00	12	300.00	
Brokers	2	100.00	1	50.00	
Boat or scow.....	244	488.00	215	430.00	
Bag-nets	22	22.00	44	44.00	
Crawfish	41	41.00	40	40.00	
Crab	1	1.00	0	.00	
Transfer fees	50	50.00	49	49.00	17,537.90
Poundage fees		150,228.29			132,658.32
Fines		1,601.88			981.00
Sales of confiscated property.....		520.33			313.38
Sundries		1,366.46			5,904.24
		\$205,293.94			\$185,576.75
Less Pacific & Columbia Pkg. Co. check (Herbert Gordon) not yet collectible		\$3,457.00	Less five per cent deducted for Sink- ing Fund		7,869.72
Less five per cent deducted for Sinking Fund	8,521.05	11,978.05			
		\$193,315.89			177,707.03
Amount of money withdrawn from Sinking Fund and remitted to State Treasurer, Salem, for credit of Hatchery Fund, Dis- trict No. 1.....		.00			11,850.00
		\$193,315.89			\$189,557.03

REPORT OF MASTER FISH WARDEN

HATCHERY FUND, DISTRICT NO. 1

DISBURSEMENTS

	Dec. 1, 1924, to Nov. 30, 1925	Dec. 1, 1925, to Nov. 30, 1926
Office expense	\$ 9,265.36	\$ 7,205.44
Commissioners	700.71	583.61
Patrol Service—Salaries, expenses and equipment.....	28,835.80	32,331.72
Director of Hatcheries.....	4,358.92	4,266.29
Master Fish Warden.....	3,786.85	3,972.77
Fishways	2,582.41	2,179.08
Refunds	435.56	193.02
Miscellaneous a/c—		
Reciprocal fish tax to State of Washington.....	23,167.60	22,175.32
Auditing Department, salary and expenses.....	2,548.41	2,808.46
Ammunition	243.72	55.05
Tagging salmon experiment, Pacific Ocean.....	2,175.00	904.57
Investigations and rewards.....	956.00	3,423.10
Tagging system	75.00	.00
Convention expense	275.39	.00
Fish food	2,812.61	.00
Audit, E. G. Shorrock a/c.....	401.17	.00
Audit and survey, John Y. Richardson a/c.....	744.69	.00
Fish elevator test (John N. Cobb).....	332.00	.00
Restoration Fund .....	.00	166.23
Closing streams .....	.00	11.80
Legal expense .....	.00	15.25
Survey of Willamette River re pollution.....	.00	150.00
U. S. Government co-operative work.....	2,590.75	3,998.88
Bonneville Hatchery	20,050.39	24,488.86
Klaskanine Hatchery	8,279.25	13,780.61
McKenzie River Hatchery.....	9,523.70 } *	8,470.14 } *
McKenzie Eyeing Station.....	.00 }	3,464.57 }
Wallowa Hatchery	10,641.39	9,822.29
Willamette Hatchery	7,313.11 } *	4,756.58 } *
Reserve Eyeing Station.....	.00 }	2,743.54 }
Deschutes Hatchery	1,224.56	561.06
Herman Creek Station.....	8,763.98	5,032.10
Santiam River Hatchery.....	10,960.75 }	11,694.75 }
South Santiam Hatchery.....	.00 } *	2,036.37 }
Breitenbush Station .....	.00 }	2,389.93 }
Sandy River Station.....	1,834.39	25.00
Salmon, Idaho, Station.....	107.31	67.87
Troy Eyeing Station.....	147.20	.00
John Day River Racks.....	.00	93.88
Imnaha Eyeing Station.....	.00	634.53
	<hr/> \$165,133.98	<hr/> \$174,502.67

*All stations grouped and marked with asterisk were operated separately, but carried under one account in 1925, and in 1926 were operated separately and carried under separate accounts.

REPORT OF MASTER FISH WARDEN

HATCHERY FUND, DISTRICT NO. 2

RECEIPTS

Dec. 1, 1924, to Nov. 30, 1925			Dec. 1, 1925, to Nov. 30, 1926		
No.	Amount	Balance	No.	Amount	Balance
Balance on hand December 1.....	\$ 7,366.04		Balance December 1..	\$ 1,687.86	
Gill-net licenses.....	682 \$5,115.00		654 \$4,905.00		
Set-net licenses.....	1642 6,157.50		1532 5,745.00		
Seines.....	18 380.10		2 30.00		
Trolls.....	44 110.00		48 120.00		
Boat pullers.....	430 430.00		356 356.00		
Retail fish dealers.....	106 530.00		115 575.00		
Wholesale fish dealers....	60 120.00		54 108.00		
Salmon cannery.....	11 275.00		6 150.00		
Shell fish cannery.....	9 133.82		5 77.64		
Boat or scow.....	43 86.00		63 126.00		
Bag-net.....	2 2.00		6 6.00		
Clams.....	251 1,171.00		289 1,445.00		
Crabs.....	256 256.00		234 234.00		
Crawfish.....	4 4.00		2 2.00		
Oysters.....	2 10.00		1 5.00		
Transfers.....	153 153.00	14,933.42	173 173.00	14,057.64	
Poundage fees.....		71,834.74			57,909.38
Additional fees on clams and crabs.....		270.68			344.84
Additional fees on oysters.....		.00			29.12
Fines.....		832.64			1,629.58
Sale of confiscated property.....		109.35			64.00
Sundries.....		323.42			1,744.39
		\$95,670.29			\$77,466.81
Less five per cent deducted for Sinking Fund		4,415.20			3,788.93
		\$91,255.09			\$73,677.88
Amount of money withdrawn from Sinking Fund and remitted to State Treasurer, Salem, for credit of Hatchery Fund, District No. 2.....		.00			10,739.24
		\$91,255.09			\$84,417.12

REPORT OF MASTER FISH WARDEN

HATCHERY FUND, DISTRICT NO. 2

DISBURSEMENTS

	Dec. 1, 1924, to Nov. 30, 1925	Dec. 1, 1925, to Nov. 30, 1926
Office expense	\$ 5,250.03	\$ 4,640.44
Commissioners	425.40	417.34
Patrol Service—Salaries, expenses and equipment.....	13,940.13	12,518.21
Director of Hatcheries	2,618.10	2,468.42
Master Fish Warden.....	1,758.67	1,818.48
Fishways	128.00	338.00
Refunds	36.23	37.96
Miscellaneous a/c—		
Auditing Department, salary and expenses.....	1,375.72	2,068.09
Ammunition	126.90	52.00
Closing streams	73.34	77.60
Tagging fish experiment, Pacific Ocean.....	1,106.86	234.07
Investigations	517.07	2,166.33
Tagging system	75.00	.00
Convention expense	262.68	.00
Fish food	659.88	.00
Reclaiming fry	124.35	.00
Audit, E. G. Shorrock a/c.....	1,069.27	.00
Audit and survey, John Y. Richardson a/c.....	711.36	.00
Legal expense .....	.00	10.00
Restoration Fund .....	.00	70.55
Rack work for chums.....	.00	1,365.32
Nehalem Hatchery	4,295.54	4,527.77
Gold Creek Hatchery.....	7,704.77	12,751.82
Wilson River Hatchery.....	2,533.76	2,137.63
Alsea Hatchery	6,760.70	6,410.00
Siuslaw Hatchery	4,294.09	3,721.88
Umpqua Hatchery	10,821.57	6,956.85
South Coos Hatchery.....	5,926.43	5,244.18
Coquille Hatchery	2,217.65	4,742.27
Rogue River Hatchery.....	4,483.56	2,187.03
Nestucca Hatchery	9,925.88	10,475.46
Yaquina Hatchery	344.29	4,486.69
Fish liberation in Siletz River.....	.00	110.23
	<hr/> \$89,567.23	<hr/> \$92,034.62

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1925

HATCHERY FUND, DISTRICT NO. 1

RECEIPTS

Balance November 30, 1924.....			\$ 34,872.78
975 Gill-nets	@ \$ 7.50	\$7,312.50	
256 Set-nets	@ 3.75	960.00	
55 Traps		1,065.00	
18 Stationary wheels	@ 35.00	630.00	
11 Scow fish wheels.....	@ 25.00	275.00	
44 Seines		2,102.70	
108 Trolls	@ 2.50	270.00	
655 Boat pullers	@ 1.00	655.00	
463 Retail fish dealers.....	@ 5.00	2,315.00	
46 Wholesale fish dealers...	@ 2.00	92.00	
13 Salmon canners	@ 25.00	325.00	
2 Brokers	@ 50.00	100.00	
244 Boats or scows.....	@ 2.00	488.00	
22 Bag-net	@ 1.00	22.00	
41 Crawfish	@ 1.00	41.00	
1 Crab		1.00	
		<hr/>	\$ 16,654.20
50 Transfer fees		50.00	
Poundage fees		150,228.29	
Fines		1,601.88	
Sale of confiscated property.....		520.33	
Sundries		1,366.46	
		<hr/>	\$170,421.16
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws 1923		\$8,521.05	
Less Pacific & Columbia Packing Co. check (Herbert Gordon), not yet col- lectible	3,457.00	11,978.05	\$158,443.11
		<hr/>	<hr/>
			\$193,315.89

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Bonneville Hatchery	\$20,050.39
Klaskanine Hatchery	8,279.25
McKenzie Hatchery	9,523.70
Willamette Hatchery	7,313.11
Wallowa Hatchery	10,641.39
Deschutes Hatchery	1,224.56
Herman Creek Station	8,763.98
Santiam River Stations.....	10,960.75
Sandy River Station.....	1,834.39
Salmon, Idaho, Station.....	107.31
Troy Eyeing Station.....	147.20

\$ 78,846.03

Refunds	435.56
Investigations	4,207.69
Miscellaneous a/c	29,523.90
U. S. Government co-operative work.....	2,590.75
Fishways	2,582.41
Master Fish Warden.....	3,786.85
Director of Hatcheries.....	4,358.92

Patrol Service

Salaries	\$16,762.93
Employees' expenses	5,043.56
Boat rent	80.00
Gasoline	1,401.69
Oils and supplies.....	764.91
Repairs	1,397.42
Expense	826.55
Rent	405.50
Equipment	2,153.24

28,835.80

Commissioners' a/c	700.71
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Office Expense

Rent	1,408.00		
Salaries	4,940.04		
Supplies	2,038.22		
Expense	687.60		
Sundry	191.50	9,265.36	\$165,133.98

Balance on hand November 30, 1925.....\$ 28,181.91

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1925

HATCHERY FUND, DISTRICT NO. 1

RECEIPTS

Balance November 30, 1924.....	\$ 34,872.78		
Licenses issued	\$ 16,654.20		
Transfer fees	50.00		
Poundage fees, salmon, shad and sturgeon	150,228.29		
Fines	1,601.88		
Sales of confiscated property.....	520.33		
Sundries	1,366.46	\$170,421.16	
<hr/>			
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws 1923.....	\$ 8,521.05		
Less Pacific & Columbia Packing Co. check (Herbert Gordon), not yet col- lectible	3,457.00	11,978.05	\$158,443.11
<hr/>		<hr/>	<hr/>
			\$193,315.89

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Office expense	\$	9,265.36		
Commissioners		700.71		
Patrol service		28,835.80		
Director of Hatcheries.....		4,358.92		
Master Fish Warden.....		3,786.85		
Fishways		2,582.41		
U. S. Government co-operative work.....		2,590.75		
Miscellaneous a/c—				
Reciprocal fish tax to State of Wash- ington	\$	23,167.60		
Tagging system		75.00		
Ammunition		243.72		
Audit, E. G. Shorrock a/c.....		401.17		
Auditing Department, salary and ex- penses		2,548.41		
Convention expense		275.39		
Fish food		2,812.61	29,523.90	
Investigations		956.00		
Tagging salmon, Pacific Ocean.....		2,175.00		
Audit and survey, John Y. Richard- son a/c		744.69		
Fish elevator test (John N. Cobb) ..		332.00	4,207.69	
Refunds—				
Licenses		7.50		
Confiscated fish		75.60		
Gasoline tax		184.62		
Poundage fees		167.84	435.56	
*Salmon Propagation—				
Operation	\$	54,288.94		
Construction		23,117.47		
Equipment		1,439.62	78,846.03	\$165,133.98
Balance on hand November 30, 1925.....	\$			28,181.91

*Note—For distribution of salmon propagation see below.

SALMON PROPAGATION

District No. 1

	Operation	Con- struction	Equipment	Total
Bonneville Hatchery	\$13,918.86	\$ 5,693.24	\$ 438.29	\$20,050.39
Klaskanine Hatchery	5,122.72	3,027.48	129.05	8,279.25
McKenzie River Stations (2) ..	6,156.58	3,353.12	14.00	9,523.70
Willamette River Stations (2) ..	6,460.70	707.67	144.74	7,313.11
Wallowa Hatchery	8,444.35	2,133.54	63.50	10,641.39
Deschutes Hatchery	1,178.49	46.07	.00	1,224.56
Herman Creek Station.....	3,309.68	5,152.93	301.37	8,763.98
Santiam River Stations (3)...	8,886.71	1,780.61	293.43	10,960.75
Sandy River Station.....	810.85	968.30	55.24	1,834.39
Salmon, Idaho, Station.....	.00	107.31	.00	107.31
Troy Eyeing Station.....	.00	147.20	.00	147.20
	\$54,288.94	\$23,117.47	\$ 1,439.62	\$78,846.03

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1925

HATCHERY FUND, DISTRICT NO. 2

RECEIPTS

Balance November 30, 1924.....			\$ 7,366.04
682 Gill-nets	@ \$7.50	\$5,115.00	
1642 Set-nets	@ 3.75	6,157.50	
18 Seines		380.10	
44 Trolls	@ 2.50	110.00	
430 Boat pullers	@ 1.00	430.00	
106 Retail fish dealers.....	@ 5.00	530.00	
60 Wholesale fish dealers.....	@ 2.00	120.00	
11 Salmon cannery	@ 25.00	275.00	
9 Shell fish cannery.....		133.82	
43 Boats or scows.....	@ 2.00	86.00	
2 Bag-nets	@ 1.00	2.00	
251 Clams		1,171.00	
256 Crab	@ 1.00	256.00	
4 Crawfish	@ 1.00	4.00	
2 Oysters	@ 5.00	10.00	\$14,780.42
153 Transfers	@ 1.00	153.00	
Poundage fees		71,834.74	
Additional fees on clams and crabs.....		270.68	
Fines		832.64	
Sale of confiscated property.....		109.35	
Sundries		323.42	
			\$88,304.25
Less five per cent deducted for Sinking Fund, accord-			
ing to Sec. 21, Chap. 295, Laws 1923.....		4,415.20	\$83,889.05
			\$91,255.09

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Nehalem Hatchery	\$\$	4,295.54	
Gold Creek Hatchery.....		7,704.77	
Wilson River Hatchery.....		2,533.76	
Alsea River Hatchery.....		6,760.70	
Siuslaw River Hatchery.....		4,294.09	
Umpqua River Hatchery.....		10,821.57	
South Coos River Hatchery.....		5,926.43	
Coquille River Hatchery.....		2,217.65	
Rogue River Hatchery.....		4,483.56	
Nestucca River Hatchery.....		9,925.88	
Yaquina Hatchery		344.29	\$59,308.24

Refund a/c	\$	36.23	
Miscellaneous a/c		6,102.43	
Master Fish Warden.....		1,758.67	
Director of Hatcheries.....		2,618.10	
Fishways		128.00	10,643.43

Patrol Service

Salaries	\$	7,086.75	
Employees' expense		5,458.71	
Boat rent		141.75	
Gasoline		88.61	
Oils and supplies.....		77.82	
Repairs		13.95	
Expense		122.63	
Rent		6.00	
Equipment		943.91	13,940.13

Commissioners' a/c			425.40
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Office Expense

Rent	\$	528.00	
Salaries		3,435.00	
Supplies		894.36	
Expense		392.67	5,250.03
			\$89,567.23

Balance on hand November 30, 1925.....\$ 1,687.86

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1925

HATCHERY FUND, DISTRICT NO. 2

RECEIPTS

Balance November 30, 1924.....		\$ 7,366.04
Licenses issued	\$14,780.42	
Transfer fees	153.00	
Poundage fees, salmon, shad and sturgeon	71,834.74	
Additional fees, clams and crabs.....	270.68	
Fines	832.64	
Sale of confiscated property.....	109.35	
Sundries	323.42	\$88,304.25
<hr/>		
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws 1923	4,415.20	83,889.05
		<hr/>
		\$91,255.09

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Office expense	\$ 5,250.03
Commissioners	425.40
Patrol service	13,940.13
Fishways	128.00
Director of Hatcheries.....	2,618.10
Master Fish Warden.....	1,758.67

Miscellaneous a/c—

Tagging system	\$ 75.00	
Audit, E. G. Shorrock a/c.....	1,069.27	
Audit and survey, John Y. Richardson a/c	711.36	
Auditing Department, salary and ex- pense	1,375.72	
Convention expense	262.68	
Closing streams	73.34	
Fish food	659.88	
Ammunition	126.90	
Investigations	517.07	
Reclaiming fry	124.35	
Tagging salmon, Pacific Ocean.....	1,106.86	6,102.43

Refunds—

Licenses	\$ 26.25	
Gasoline tax	9.98	36.23

*Salmon Propagation—

Operation	\$35,888.35		
Construction	21,184.27		
Equipment	2,235.62	\$59,308.24	89,567.23

Balance on hand November 30, 1925.....\$ 1,687.86

*Note—For distribution of salmon propagation see below.

SALMON PROPAGATION

District No. 2

	Operation	Construction	Equipment	Total
Nehalem Hatchery	\$ 3,266.48	\$ 992.80	\$ 36.26	\$ 4,295.54
Gold Creek Hatchery..	5,142.96	2,096.17	465.64	7,704.77
Wilson River Hatchery.	1,496.95	1,036.81	.00	2,533.76
Alsea Hatchery	5,439.67	1,248.28	72.75	6,760.70
Siuslaw Hatchery	3,227.95	1,053.64	12.50	4,294.09
Umpqua Hatchery	4,613.57	5,453.80	754.20	10,821.57
South Coos Hatchery..	5,175.01	298.13	453.29	5,926.43
Coquille Hatchery	839.73	1,291.90	86.02	2,217.65
Rogue River Hatchery.	1,761.41	2,722.15	.00	4,483.56
Nestucca Hatchery	4,599.82	4,990.59	335.47	9,925.88
Yaquina Hatchery	324.80	.00	19.49	344.29
	<u>\$35,888.35</u>	<u>\$21,184.27</u>	<u>\$ 2,235.62</u>	<u>\$59,308.24</u>

REPORT OF MASTER FISH WARDEN

STATEMENT

SEAL AND SEALION FUND

Year Ending November 30, 1925

Receipts December 1, 1924, to November 30, 1925.....	\$10,105.00
Amount deducted for Sinking Fund, period from March 1, 1923, to October, 1925, inclusive.....	\$1,415.25
Amount deducted for Sinking Fund for month of November, 1925...	11.50
	<u>1,426.75</u>

\$ 8,678.25

DISBURSEMENTS

Bounties

Name	Address	No. Seals	No. Sea- lions	Amount
Blackerby, F. J.....	Portland, 346 College St.....		526	\$2,630.00
Smith, B. F.....	Roosevelt Beach, c/o H. P. Larsen	1	58	295.00
Yeager, Charles.....	Hammond	4		20.00
Davidson, Jack.....	North Bend		263	1,315.00
Hunter, W. M.....	Gold Beach		64	320.00
Josephson, Gust.....	Astoria, c/o Warren Pkg. Co...	29	1	150.00
Bell, John H.....	Astoria, R. 2, Box 55.....	12		60.00
Dunsmoor, Oliver.....	Svensen	13		65.00
Saubert, Roy.....	Cushman		140	700.00
Forty, Robert.....	Port Orford		333	1,665.00
Miles, C. R.....	Astoria, 310-34th St.....	16		80.00
Niemela, Oscar.....	Brownsmead		2	10.00
Smith, David.....	Knappa, R. 1	7		35.00
Bjorkman, Axel.....	Brownsmead	2		10.00
Oaks, D. J.....	Netarts	1		5.00
Elliott, Louise.....	Dahlia, Wash.	1		5.00
Fox, J. C.....	Altoona, Wash.	5		25.00
Larson, Leo.....	Astoria, 1405 Grand Ave.....	1		5.00
Miles, J. H.....	Astoria, 310-34th St.....	2		10.00
Munson, F. A.....	Dahlia, Wash.	59		295.00
Olsen, E. F.....	Astoria, 1774 Grand Ave.....	2		10.00
Peterson, Gus.....	Astoria, 1636 Franklin Ave.....	1		5.00
Whitten, E. R.....	Willamette	3		15.00
Kela, John.....	Astoria, 1288 Grand Ave.....	1		5.00
Anderson, Gust.....	Astoria, 180-47th St.....	1		5.00
Sutherland, D. L.....	Rockaway	1		5.00
Bartlett, S. L.....	Astoria, R. 2, Box 66-A.....	3		15.00
Hinch, L. C.....	North Bend	2		10.00
Nelson, John.....	Astoria, 2440 Cedar St.....	1		5.00
		<u>168</u>	<u>1387</u>	<u>\$7,775.00</u>
Refunds				5.00
				<u>7,780.00</u>
Balance on hand November 30, 1925.....				\$ 898.25

SUMMARY

Total seal scalps.....	168
Total sealion scalps.....	1387
Total	<u>1555</u> @ \$5.00 per scalp \$7,775.00

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1926

HATCHERY FUND, DISTRICT NO. 1

RECEIPTS

Balance November 30, 1925.....			\$28,181.91
993 Gill-nets	@ \$ 7.50	\$ 7,447.50	
304 Set-nets	@ 3.75	1,140.00	
55 Traps		1,045.00	
18 Stationary wheels	@ 35.00	630.00	
12 Scow wheels	@ 25.00	300.00	
59 Seines		2,660.40	
106 Trolls	@ 2.50	265.00	
589 Boat pullers	@ 1.00	589.00	
490 Retail fish dealers.....	@ 5.00	2,450.00	
49 Wholesale fish dealers..	@ 2.00	98.00	
12 Salmon cannery	@ 25.00	300.00	
1 Broker		50.00	
215 Boats or scows.....	@ 2.00	430.00	
44 Bag-nets	@ 1.00	44.00	
40 Crawfish	@ 1.00	40.00	\$ 17,488.90
49 Transfers	@ 1.00	49.00	
Poundage fees		132,658.32	
Fines		981.00	
Sale of confiscated property.....		313.38	
Sundries		5,904.24	
		<u>\$157,394.84</u>	
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws 1923.....		7,869.72	149,525.12
			<u>\$177,707.03</u>
Amount of money withdrawn from Sinking Fund and remitted to State Treasurer, Salem, for credit of Hatchery Fund, Dis- trict No. 1, during the year 1926.....			11,850.00
			<u>\$189,557.03</u>

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Bonneville Hatchery	\$24,488.86	
Klaskanine Hatchery	13,780.61	
McKenzie Hatchery	8,470.14	
Willamette River Hatchery.....	4,756.58	
Wallowa Feeding Ponds.....	9,822.29	
Deschutes Hatchery	561.06	
Herman Creek Station.....	5,032.10	
Santiam River Hatchery.....	11,694.75	
Sandy River Station.....	25.00	
John Day Racks.....	93.88	
U. S. Government co-operation work...	3,998.88	
Reserve Eyeing Station.....	2,743.54	
McKenzie Eyeing Station.....	3,464.57	
South Santiam Station.....	2,036.37	
Imnaha Station	634.53	
Breitenbush Station	2,389.93	
Salmon, Idaho, Station.....	67.87	\$ 94,060.96

Refund a/c	193.02	
Master Fish Warden a/c.....	3,972.77	
Miscellaneous a/c	29,709.78	
Fishway a/c	2,179.08	
Director of Hatcheries a/c.....	4,266.29	

Patrol Service

Salaries	\$15,907.44	
Employees' expenses	2,902.42	
Boat rent	265.50	
Gasoline	1,652.57	
Oils and supplies.....	973.36	
Repairs	3,729.08	
Expense	577.89	
Rent	1,029.75	
Equipment	5,293.71	32,331.72

Commissioners a/c	583.61	
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Office Expense

Rent	\$ 1,316.00	
Salaries	3,605.00	
Supplies	1,077.31	
Expense	709.13	
Equipment	498.00	7,205.44
		\$174,502.67

Balance on hand November 30, 1926.....\$ 15,054.36

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1926

HATCHERY FUND, DISTRICT NO. 1

RECEIPTS

Balance November 30, 1925.....		\$ 28,181.91
Licenses issued	\$ 17,488.90	
Transfer fees	49.00	
Poundage fees, salmon, shad and sturgeon	132,658.32	
Fines	981.00	
Sale of confiscated property.....	313.38	
Sundries	5,904.24	\$157,394.84
<hr/>		
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws of 1923.....	7,869.72	\$149,525.12
		<hr/>
		\$177,707.03
Amount of money withdrawn from Sinking Fund and remitted to State Treasurer, Salem, for credit of Hatchery Fund, District No. 1, during the year 1926.....		11,850.00
		<hr/>
		\$189,557.03

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Office expense	\$ 7,205.44
Commissioners	583.61
Patrol Service	32,331.72
Director of Hatcheries.....	4,266.29
Master Fish Warden.....	3,972.77
Fishways	2,179.08
Refunds, gasoline tax.....	193.02
U. S. Government co-operative work.....	3,998.88

Miscellaneous a/c—

Reciprocal fish tax to State of Wash- ington	\$ 22,175.32	
Auditing Department, salary and ex- penses	2,808.46	
Ammunition	55.05	
Restoration Fund	166.23	
Tagging salmon experiment.....	904.57	
Closing streams	11.80	
Legal expense	15.25	
Survey of Willamette River re pol- lution	150.00	
Investigations and rewards.....	3,423.10	29,709.78

*Salmon Propagation—

Operation	\$ 58,578.38		
Construction	29,026.90		
Equipment	2,456.80	90,062.08	\$174,502.67
Balance on hand November 30, 1926.....			\$ 15,054.36

*Note—For distribution of salmon propagation see below.

SALMON PROPAGATION

District No. 1

	Operation	Construction	Equipment	Total
Bonneville Hatchery.....	\$14,964.39	\$ 9,220.72	\$ 303.75	\$24,488.86
Klaskanine Hatchery	5,798.27	7,344.54	637.80	13,780.61
McKenzie Hatchery	6,307.57	1,299.82	862.75	8,470.14
Willamette Hatchery	3,566.92	698.06	491.60	4,756.58
Wallowa Feeding Ponds..	8,868.08	904.05	50.16	9,822.29
Deschutes Hatchery	561.06	.00	.00	561.06
Herman Creek Station....	4,312.95	702.65	16.50	5,032.10
Santiam Hatchery	5,419.04	6,181.47	94.24	11,694.75
Sandy River Station.....	.00	25.00	.00	25.00
John Day River Racks....	10.00	83.88	.00	93.88
Reserve Eyeing Station...	2,274.07	469.47	.00	2,743.54
McKenzie Eyeing Station.	2,085.04	1,379.53	.00	3,464.57
South Santiam Station...	1,927.54	108.83	.00	2,036.37
Imnaha Eyeing Station....	126.75	507.78	.00	634.53
Breitenbush Station	2,356.70	33.23	.00	2,389.93
Salmon, Idaho, Station....	.00	67.87	.00	67.87
	<u>\$58,578.38</u>	<u>\$29,026.90</u>	<u>\$ 2,456.80</u>	<u>\$90,062.08</u>

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1926

HATCHERY FUND, DISTRICT NO. 2

RECEIPTS

Balance November 30, 1925.....			\$ 1,687.86
654 Gill-nets	@	\$ 7.50	\$4,905.00
1532 Set-nets	@	3.75	5,745.00
2 Seines			30.00
48 Trolls	@	2.50	120.00
356 Boat pullers	@	1.00	356.00
115 Retail fish dealers.....	@	5.00	575.00
54 Wholesale fish dealers....	@	2.00	108.00
6 Salmon canners	@	25.00	150.00
5 Shell fish canners.....			77.64
63 Boats or scows.....	@	2.00	126.00
6 Bag-nets	@	1.00	6.00
289 Clams	@	5.00	1,445.00
234 Crabs	@	1.00	234.00
2 Crawfish	@	1.00	2.00
1 Oyster	@	5.00	5.00
			<u>\$13,884.64</u>
173 Transfers	@	1.00	173.00
Poundage fees, salmon, shad and sturgeon.....			57,909.38
Additional fees on clams and crabs.....			344.84
Additional fees on oysters.....			29.12
Fines			1,629.58
Sale of confiscated property.....			64.00
Sundries			1,744.39
			<u>\$75,778.95</u>
Less five per cent deducted for Sinking Fund ac- cording to Sec. 21, Chap. 295, Laws 1923.....		3,788.93	\$71,990.02
			<u>\$73,677.88</u>
Amount of money withdrawn from Sinking Fund and remitted to State Treasurer, Salem, for credit of Hatchery Fund, Dis- trict No. 2, during the year 1926.....			10,739.24
			<u>\$84,417.12</u>

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Nehalem Hatchery	\$ 4,527.77		
Gold Creek Hatchery.....	12,751.82		
Wilson River Hatchery.....	2,137.63		
Alsea Hatchery	6,410.00		
Siuslaw Hatchery	3,721.88		
Umpqua River Hatchery.....	6,956.85		
South Coos Hatchery.....	5,244.18		
Coquille Hatchery	4,742.27		
Rogue River Hatchery.....	2,187.03		
Nestucca Hatchery	10,475.46		
Yaquina Hatchery	4,486.69	\$63,641.58	
<hr/>			
Fish liberation in Siletz River.....	\$ 110.23		
Refund a/c	37.96		
Miscellaneous a/c	6,043.96		
Master Fish Warden.....	1,818.48		
Director of Hatcheries.....	2,468.42		
Fishways	338.00	10,817.05	
<hr/>			
Patrol Service			
Salaries	\$ 7,275.00		
Employees' expenses	4,204.35		
Boat rent	12.75		
Gasoline	90.93		
Oils and supplies.....	131.64		
Repairs	111.55		
Expense	451.18		
Rent	51.95		
Equipment	188.86	12,518.21	
<hr/>			
Commissioners' a/c		417.34	
<hr/>			
Office Expense			
Rent	\$ 780.00		
Salaries	1,747.05		
Supplies	985.94		
Expense	652.45		
Equipment	475.00	4,640.44	\$92,034.62
<hr/>			
Overdraft on November 30, 1926.....			\$ 7,617.50

REPORT OF MASTER FISH WARDEN

FINANCIAL STATEMENT, YEAR ENDING NOVEMBER 30, 1926

HATCHERY FUND, DISTRICT NO. 2

RECEIPTS

Balance November 30, 1925.....		\$ 1,687.86
Licenses issued	\$13,884.64	
Transfer fees	173.00	
Poundage fees, salmon, shad and sturgeon	57,909.38	
Additional fees, clams and crabs.....	344.84	
Additional fees on oysters.....	29.12	
Fines	1,629.58	
Sale of confiscated property.....	64.00	
Sundries	1,744.39	\$75,778.95
		<hr/>
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws 1923.....	3,788.93	\$71,990.02
		<hr/>
		\$73,677.88
Amount of money withdrawn from Sinking Fund and remitted to State Treasurer, Salem, for credit of Hatchery Fund, District No. 2, during the year 1926.....		10,739.24
		<hr/>
		\$84,417.12

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS

Office expense	\$ 4,640.44
Commissioners	417.34
Patrol service	12,518.21
Director of Hatcheries.....	2,468.42
Master Fish Warden.....	1,818.48
Fishways	338.00

Refunds—

Gasoline tax	\$12.96	
Fine	25.00	37.96

Fish liberation in Siletz River.....	110.23
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Miscellaneous a/c—

Auditing Department, salaries and ex- penses	\$ 2,068.09	
Ammunition	52.00	
Legal expense	10.00	
Rack work for chums.....	1,365.32	
Closing streams	77.60	
Restoration Fund	70.55	
Tagging fish experiment.....	234.07	
Investigations	2,166.33	6,043.96

*Salmon Propagation—

Operation	\$46,178.13		
Construction	16,083.92		
Equipment	1,379.53	63,641.58	\$92,034.62

Overdraft on hand November 30, 1926.....	\$ 7,617.50
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*Note—For distribution of salmon propagation see below.

SALMON PROPAGATION

District No. 2

Station	Operation	Construction	Equipment	Total
Nehalem Hatchery.....	\$ 2,619.79	\$ 1,907.98	\$.00	\$ 4,527.77
Gold Creek Hatchery...	9,010.66	3,093.45	647.71	12,751.82
Wilson River Hatchery.	1,093.44	1,036.59	7.60	2,137.63
Alsea Hatchery	5,751.38	584.12	74.50	6,410.00
Siuslaw Hatchery	3,577.49	81.17	63.22	3,721.88
Umpqua River Hatchery	4,733.92	2,135.24	87.69	6,956.85
South Coos Hatchery...	4,964.22	199.31	80.65	5,244.18
Coquille Hatchery	2,720.65	1,772.09	249.53	4,742.27
Rogue River Hatchery..	2,123.81	63.22	.00	2,187.03
Nestucca Hatchery	6,708.24	3,739.12	28.10	10,475.46
Yaquina Hatchery	2,874.53	1,471.63	140.53	4,486.69
	<u>\$46,178.13</u>	<u>\$16,083.92</u>	<u>\$1,379.53</u>	<u>\$63,641.58</u>

REPORT OF MASTER FISH WARDEN

SEAL AND SEALION FUND

Year Ending November 30, 1926

Balance, November 30th, 1925.....	\$	898.25
Receipts, December 1, 1925, to November 30, 1926....	\$9,640.00	
Less five per cent deducted for Sinking Fund, according to Sec. 21, Chap. 295, Laws 1923.....	481.98	9,158.02
		<hr/> \$10,056.27

DISBURSEMENTS

Bounties

Name	Address	No. Seals	No. Sealions	Amount
De Marce, R. E.....	Waldport	1		\$ 7.50
Elliott, J. H.....	Astoria	2		10.00
Haglund, Oscar	Knappa	5		25.00
Hinch, L. C.....	North Bend ...	1		5.00
Mattson, Henry	Astoria	6		30.00
Walton, W. H.....	Harbor	3		15.00
Berg, Axel	Astoria	3		22.50
Kantala, Charles	Astoria	1		5.00
Palo, Wayne	Astoria	3		20.00
Redding, L. M.	Altoona, Wash. 16			80.00
Cook, B. A.....	Oretown	1		5.00
Mapes, Bert	Bay City	2		10.00
Reafenburg, Sam	Bay City	2		10.00
Dunsmoor, Oliver	Svensen	9		67.50
Finney, Axel	Astoria	1		7.50
Nelson, John	Astoria	1		7.50
Anundi, Axel	Clatskanie	1		7.50
Fox, John	Altoona, Wash. 7			52.50
Jackson, Edwin	Astoria	3		22.50
Sture, Wm.	Knappa	1		7.50
Pulliam, J. S.....	Corbett	1		7.50
Filby, Matt	Warrenton	1		7.50
Haglund, Oscar	Knappa	1		7.50
Knudsen, Cornelius	Astoria	1		7.50
Helmer, Lindstrom	Astoria	1		7.50
Puustinen, William	Svensen	13		97.50
Zuanich, Philip	Astoria	1		7.50
Bailey, George	Altoona, Wash. 1			7.50
Baker, F. J.....	Manzanita	1		7.50
Barton, P. J.....	Astoria	1		7.50
Jerijarvi, Albert	Astoria	1		7.50
Penttila, T. J.....	Astoria	1		7.50
Strauser, W.	Dahlia, Wash.. 1			7.50
Van Pelt, Harry H.....	Harbor	29		217.50
Affolter, Fred	Neskowin	1		7.50
Gustin, Ernest	Astoria	1		7.50
Hankins, A. F.....	Astoria	1		7.50
Hansen, Severin	Astoria	1		7.50
Joncich, Jack	Astoria	1		7.50
Lindstrom, Erick	Chinook, Wash. 5			37.50
Makey, Alfred	Astoria	1		7.50
Campbell, T. O.....	Astoria	24		180.00
Wilhelmson, Wilhelm	Astoria	1		7.50

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS—(Continued)

Name	Address	No. Seals	No. Sealions	Amount
Pulliam, W. L.....	Portland	5		37.50
Blomquist, Vern	Astoria	1		7.50
Ritchey, Quentin	Astoria	8		60.00
Marchins, Steven T.....	Portland	1		7.50
Forty, Robert	Port Orford ..	1	187	101.00
Gunderson, Wm.	Knappton, Wn.	1		7.50
Bailey, George	Cathlamet, Wn.	7		52.50
Johnson, Guss	Reedsport	1		7.50
Bryant, Tom	Reedsport	1		7.50
Whitten, E. R.....	Willamette	1		7.50
Carlson, Sidney	Astoria	1		7.50
Christensen, J. F.....	Astoria	1		7.50
Cook, John A.....	Tillamook	1		7.50
Gates, Charles	Oregon City ..	3		22.50
Morgan, Charles T.....	Garibaldi	5		37.50
Smith, David	Knappa	4		30.00
Smith, Ike	Reedsport	1		7.50
Baller, H. C.....	Otis	1		7.50
Petersen, Peter	Astoria	50		375.00
Richter, Julius	Hillsboro	3		22.50
Carlson, Victor O.....	Astoria	2		15.00
Moberg, Carl O.....	Astoria	1		7.50
Bjorklund, Axel E.....	Brownsmead ..	1		7.50
Ericksen, Edward	Knappa	6		45.00
Mattson, A. M.....	Astoria	1		7.50
Olds, Delmer	Tillamook	2		15.00
Raihala, Reino	Knappa	7		52.50
Blackstock, W. E.....	Astoria	1		7.50
Oja, Oney	Brownsmead ..	1		7.50
Eide, Stephen	Skamokawa, Wn.	2		15.00
Miles, J. H.....	Astoria	4		30.00
Smith, Chesley	Astoria	2		15.00
Wells, Chas. S.....	Tillamook	1		7.50
Baker, Elmer, Sr.....	Tillamook	1		5.00
Baldrige, D.	Astoria	1		7.50
Elliott, J. H.....	Astoria	12		90.00
Erickson, Oscar	Astoria	4		30.00
Hanson, Hans	Glenada	2		15.00
Lakso, Wm. A.....	Astoria	2		15.00
Lundquist, Henning ...	Brownsmead ..	2		15.00
Macklin, Edwin	Astoria	4		30.00
Manula, E.	Astoria	1		7.50
Peterson, John H.....	Astoria	1		7.50
Maupin, John T.....	Reedsport	1		7.50
Simonsen, Nels	Astoria	8		60.00
Downing, Elmer N.....	Pacific City....	1		5.00
Lindstrom, Arthur ...	Chinook, Wash.	6		45.00
Miller, Albert	Astoria	9		67.50
Schneidau, Gust	Agnes	1		7.50
Wahl, Oscar B.....	Astoria	3		22.50
Winegar, A. D.....	Cushman	4		30.00

REPORT OF MASTER FISH WARDEN

DISBURSEMENTS—(Continued)

Name	Address	No. Seals	No. Sealions	Amount	
Brandt, A. E.....	Astoria	1		7.50	
Johnson, Norman	Knappa	1		7.50	
Mills, E.	Tillamook	6		45.00	
Petersen, N.	Reedsport	2		15.00	
		<hr/> 360	<hr/> 187	<hr/> \$2,688.50	
Freight				\$ 1.16	
Supplies				307.62	
Equipment				299.63	3,296.91
					<hr/>
Balance on hand November 30, 1926.....					\$6,759.36

SUMMARY

318 seal scalps @ 7.50 per scalp bounty.....	\$2,385.00
42 seal scalps @ 5.00 per scalp bounty.....	210.00
187 sealion scalps @ .50 per bounty.....	93.50
	<hr/>
	\$2,688.50

The seal scalp bounty was increased to \$7.50 on January 1, 1926.

SINKING FUND ACCOUNTS

HATCHERY FUND, DISTRICT NO. 1.

Amounts received in Sinking Fund, Hatchery Fund, District No. 1, from March, 1923, to November 30, 1926.....	\$2,096.35
Less amount of money withdrawn from Sinking Fund and re-mitted to State Treasurer, Salem, for credit of Hatchery Fund, District No. 1, and expended during the year 1926....	11,850.00
	<hr/>
Balance on hand, December 1, 1926.....	\$20,246.35

HATCHERY FUND, DISTRICT NO. 2

Amounts received in Sinking Fund, Hatchery Fund, District No. 2, from March, 1923, to November 30, 1926.....	\$18,330.35
Less amount of money withdrawn from Sinking Fund and re-mitted to State Treasurer, Salem, for credit of Hatchery Fund, District No. 2, and expended during the year 1926....	10,739.24
	<hr/>
Balance on hand, December 1, 1926.....	\$ 7,591.11

SEAL AND SEALION FUND

Amounts received in Sinking Fund, Seal and Sealion Fund, from March, 1923, to November 30, 1926.....	\$ 1,910.25
Money expended .....	.00
	<hr/>
Balance on hand, December 1, 1926.....	\$ 1,910.25

REPORT OF R. E. CLANTON, DIRECTOR OF HATCHERIES

LETTER OF TRANSMITTAL

Portland, Oregon, December 2, 1926.

To the Fish Commission of the State of Oregon.

Gentlemen:

Upon reassuming the duties of Director of Hatcheries June 23rd of last year, I found many of the experienced hatchery superintendents who formerly worked with me still in charge of their respective stations, and in most instances the new superintendents who had entered the Department during my absence were likewise experienced and efficient, all of who signified their willingness to give me their hearty co-operation. This, coupled with the fact that practically all of the important hatcheries and feeding pond systems of the state were installed during the thirteen years that I was formerly in charge, made it easy for me to take up and proceed with the duties with very little difficulty.

A survey of the various hatcheries disclosed the fact that in order to care for the increased number of spawn and young fish available, some improvement and extensions would necessarily have to be made, and the major improvements and extensions made during the past two years are set forth briefly as follows:

Bonneville Hatchery

Complaints had been made through the press and otherwise that the Bonneville Hatchery, recognized as a show place and visited by thousands of people annually, had been allowed to fall into a dilapidated and unsightly condition. This criticism was no doubt due to the fact that the grounds and surroundings had been somewhat torn up while the new concrete ponds were under construction during the latter part of the year previous, and that some of the buildings which had been standing for many years had begun to show decay. Work was immediately started upon the repair of the buildings, grounds around the ponds were leveled up and the space laid off in lawn with shrubbery added in order to make this part of the grounds conform with the rest of the surroundings.

According to Superintendent Howell's report, additional improvements consist of the laying of twelve-inch pipe line to furnish the water supply to the new concrete ponds. A new foundation was put under the west end of the main hatchery building and one hundred new hatching troughs installed. An entire new roof consisting of sheeting and shingles was placed on the main building. A new macadam road, thirty feet wide, was constructed, leading from the highway into the hatchery grounds, replacing the old dangerous bridge entrance which had been in use for many years. Three new dirt or natural ponds, thirty feet wide by two hundred feet long and three feet deep were built. A flum to furnish aeration to the lake ponds was constructed and one thousand eighty feet of flume, three feet wide, three feet deep, with covering and railing, was put in to replace part of the old flume which had become so rotten that it was of no further use. Repair work was made on the upper or main dam across Tanner Creek, some new timbers and plank being used. Improvements and repairs were made on a number of the other concrete ponds. A new gas house was built and gas pump installed, also a new food drier was constructed. The work enumerated is the most important and essential, but many improvements of a minor nature were made in the way of filling up grounds, planting flowers, etc.

Klaskanine Hatchery

A new foundation was put under the main hatchery building and a new floor laid, also a new slate roof was put on and other general repairs made to the building. A bridge leading to the feeding pond system was constructed across the river, and supports put under the pipe line on the North Fork from which the hatchery water supply is taken. Approximately one hundred and fifty feet of ponds were deepened and widened, with necessary dams and screens installed, materially increasing the capacity of this station. Some repairs were made on the other ponds and additional flowers and shrubbery put in.

A large pond or lake was constructed with a water supply furnished through an eighteen-inch pipe. This system was made in order to hold silverside salmon over the second winter or until they were eight or nine inches in length. There are now in this lake two million silversides, most of which are six inches long and which will be retained and liberated during March or April of the coming year.

Herman Creek Feeding Ponds

A new cribbing was put in and repairs made to the dike in order to protect the feeding pond system. Repairs and improvements were made on some of the ponds. The buildings were given two coats of paint and a small food house was constructed. The land on which this station is located, having been in litigation for a number of years, was decided, the former owners being awarded five thousand dollars, which was paid. A new roadway was constructed under the railroad bridge, replacing the dangerous crossing, and making the grounds more accessible. In order to protect the railway roadbed a concrete wall was constructed along this new road.

Santiam Hatchery

A thirty-inch concrete pipe supplying water to the pond system was installed to replace the old wooden flume. A new six-room house with all modern improvements and a full basement was constructed for the superintendent, and a pipe line to furnish the water supply was installed. The raising and paving of the highway in front of the hatchery building there made it necessary that considerable filling be put in around the building. Other improvements of a minor nature were made.

Willamette Hatchery

The improvements at this station consisted of clearing up the grounds and enlarging the ponds, which increased the capacity of the station.

Wallowa Hatchery

A new woven wire fence was placed around the grounds, and a macadam roadway leading from the highway was built, the grounds leveled up and put into lawns, and shrubbery planted. The hatchery and other buildings were given two coats of paint. A food drier was constructed and a septic tank and connections put in. Two dams were built to protect the feeding ponds and many other minor improvements made.

McKenzie Hatchery

A complete new hatchery building, 40 by 80 feet, was erected at this station, one new retaining pond was built and a road leading from the highway, a distance of several hundred feet, was graded and macadamized.

Nehalem Hatchery

The surrounding conditions at the Nehalem hatchery, located at the mouth of the Salmonberry, made it impracticable for the building of a feeding pond system sufficient to take care of the needs of that stream. After going over the matter thoroughly, the fishermen of Nehalem Bay

and the business men of both Wheeler and Nehalem, represented by a committee, appeared before the Commission and protested against any further money being expended at that place and requested that the hatchery be moved to a location where an adequate system of feeding ponds could be provided. A desirable location was found on Foley Creek farther down the stream. After the location had been approved by those directly interested, work at this site was started in September of this year. Improvements so far made consist of putting a dam across the main Foley Creek in order to divert the water into an old channel which is almost one-half mile long and which when completed will be one of the best natural feeding pond systems in the state, with a capacity of at least ten million fingerling.

Gold Creek Hatchery

An entire new foundation was put under the hatchery building there and extensive work was done upon the feeding pond system, increasing the capacity of the station materially. A new food drier was constructed and other minor improvements made.

Nestucca Hatchery

Considerable work was found necessary at this station in order to put it in condition to hold the young fish until they attain the proper size for liberation. The plant, which was located in 1924, has good racking facilities, but affords poor opportunities for an adequate feeding pond system. However, a location was found near by on Little West Creek in which a natural feeding pond system was constructed. Several ponds have been made and when the system is completed it will take care of at least ten million fish. A new cottage for the Superintendent was installed and the grounds fenced and leveled, and other minor improvements made.

Alsea Hatchery

Improvements at this station consist of extending the feeding pond system and building a large flume to carry water over same. Also a flume was built in which the fish are liberated from the ponds above the dam. Considerable work was found necessary on the dam across the river.

Siuslaw Hatchery

It was found necessary at this plant to support the main building with new braces and rods. The troughs which had been put in the year previous had to be lowered in order that the operators might work more conveniently. A garage was constructed, some filling was done around the main hatchery and a fence placed around the grounds. A new pond was built and the old ponds were deepened, which increased the capacity to a considerable degree.

Umpqua Hatchery

A complete new hatchery building, 40 by 80 feet, with a concrete floor, provided with sixty new troughs, was built. Eight hundred and eighty feet of flume was constructed to provide water for the system. Three ponds, approximately four hundred feet long, with a capacity of three million fingerling, were built, and a new seven-room dwelling for the superintendent, 24 by 36 feet, was built; also a store room 16 by 36 feet. The grounds were leveled and laid off in lawns and driveways and walks were provided.

This new plant is one of the most modern and complete in the state, but owing to the unfavorable location of the ground surrounding, it is impracticable to increase the present feeding pond system, and as the Umpqua River is one of the most important streams in that district, it is evident that the capacity of this plant is not large enough to increase or keep up the supply of fish in that stream. After the appearance before your body of a delegation representing the fish dealers, business men and fishermen

of the Umpqua River, the construction of a feeding pond system was authorized on Little Mill Creek near Scottsburg. A survey and plans have been made and work upon this system will be started immediately after the first of the year in order that it may be put in use during the coming season.

South Coos Hatchery

No extensive improvements have been made at this station. The grounds surrounding the cottage and hatchery were leveled off and some additions were made to the feeding ponds.

Coquille Hatchery

Maintaining that money collected from their stream had been diverted elsewhere, the fishermen requested that some hatchery operations be carried on on that river. A desirable location was found on the south fork a few miles above Powers. A battery of hatching troughs was installed, a small cottage for the superintendent was erected and four natural feeding ponds were built. When funds become available this, like the new plants on the Nehalem and Yaquina, should be improved and increased to a larger capacity.

Yaquina Hatchery

A delegation of fishermen and dealers operating on Yaquina Bay and River appeared before your body in September of last year, strongly urging that hatchery operations be started upon that stream. A survey was made on Simpson Creek and it was found that an adequate feeding pond system could be made in the creek bed itself by constructing a large flume to carry the surplus water over the same during freshets. Owing to the lateness of the season it was impracticable to construct the ponds and erect hatching troughs, but arrangements were made with Ryckman and Martin, who operate a private trout hatchery on Spencer Creek, for the use of their plant, and one and one-half million fry were hatched and held there until the ponds were in condition to hold them in the early part of this year. During the summer a dam was constructed and a battery of hatching troughs were put in near the pond system, in which eggs are now being hatched.

Rogue River Hatchery

Rogue River, being the property of the Macleay Estate Company, is merely operated under the supervision and at the expense of the Commission.

Hatchery Operations

I respectfully call attention to the table set forth herein showing the output of young salmon liberated from the various hatcheries of the state during the past biennium. From the comparative figures given it will be seen that the output of young fish was increased 76,685,215 over that of the two previous seasons, and which is of special importance to the future of the industry these fingerling were held and fed, on an average, for a much longer period before liberation. It will also be noted that during the past two years the aggregate cost of taking the spawn and handling the young fish was twenty-four and two-thirds per cent (24 $\frac{2}{3}$ %) less than the two previous years.

Respectfully submitted,

R. E. CLANTON,
Director of Hatcheries.

REPORT OF DIRECTOR OF HATCHERIES

DISTRICT NO. 1

Showing the number of eggs collected at the hatcheries operated by the State of Oregon tributary to the Columbia River, during the year 1925:

Hatchery	Spring Chinook	Fall Chinook	Silver- sides	Steel- heads	Sockeyes	Yanks	Totals
Bonneville		3,345,000					3,345,000
Klaskanine	42,740		429,500	100,000			572,240
Santiam	10,504,636						10,504,636
South Santiam..	3,817,920						3,817,920
Willamette	4,420,000						4,420,000
Wallowa	50,000		84,200			806,900	941,100
Imnaha	275,100						275,100
McKenzie	3,642,000						3,642,000
Sandy River		2,595,820					2,595,820
Co-operative Stations:							
U. S. Bureau,							
Clackamas...		10,468,649			6,489,000	100,000	17,057,649
State of Wash.		6,352,000				4,843,050	11,195,050
	22,752,396	22,761,469*	513,700	100,000	6,489,000	5,749,950	58,366,515

*5,621,601 fall chinook salmon eggs transferred to District No. 2.

Note—The correspondingly small take of spring chinook eggs at the Willamette and McKenzie River stations, compared with the take on the Santiam tributary, was due to the racks on these two streams having been washed out during the early spring freshet, releasing the parent fish.

DISTRICT NO. 2

Showing the number of eggs collected at the hatcheries operated by the State of Oregon on the Coast streams south of the Columbia River, during the year 1925:

Hatchery	Spring Chinook	Fall Chinook	Silversides	Steelheads	Totals
Nehalem	863,000		720,500		1,583,500
Gold Creek	7,760,000	125,000	5,100,000		12,985,000
Wilson River	1,377,000	110,000	650,000		2,137,000
Nestucca	4,070,000	782,250	7,627,000		12,479,250
Alsea	727,660	1,174,180	2,674,430	3,357,746	7,934,016
Siuslaw	430,000		452,000		882,000
Umpqua	1,719,515				1,719,515
South Coos		3,272,500	7,892,000	567,910	11,732,410
Co-operative Stations:					
U. S. Bureau of Fisheries.....			629,900	578,000	1,207,900
	16,947,175	5,463,930	25,745,830	4,503,656	52,660,591

REPORT OF DIRECTOR OF HATCHERIES

DISTRICT NO. 1

Showing the number of fingerling liberated into the Columbia River and its tributaries, as reported by the superintendents of the various hatcheries, during the year 1925 by the State of Oregon:

Hatchery	Spring Chinook	Fall Chinook	Silver- sides	Steel- heads	Sockeyes	Yanks	Totals	Where Liberated
Bonneville	3,407,305	5,076,380	734,730	.....	.....	.....	9,218,415	Tanner Creek
Klaskanine	314,270	1,828,544	2,497,856 a	45,000 b	.....	.....	4,685,670	Klaskanine River
Herman Creek ..	.....	2,495,900	.....	.....	3,427 c	.....	2,499,327	Herman Creek
Santiam	4,890,100	.....	.....	.....	.....	.....	4,890,100	Santiam River
Willamette	7,953,540	.....	.....	.....	.....	.....	7,953,540	Salmon Creek
Wallowa	7,287,800	.....	1,307,000	.....	3,483,700 d	246,700 e	12,325,200	Wallowa River
McKenzie	5,681,756 f	.....	.....	.....	.....	.....	5,681,756	Gate Creek
Deschutes	1,082,225	.....	.....	.....	.....	.....	1,082,225	Deschutes River
	30,616,996	9,400,824	4,539,586	45,000	3,487,127	246,700	48,336,233	
							5,983,650	

Total fry liberated and left on hand November 30, 1925..... 54,319,883

a— 149,875 silversides on hand.

b— 46,785 steelheads on hand.

c— 96,520 yanks on hand.

d— 3,439,600 sockeyes on hand.

e— 2,197,500 yanks on hand.

f— 53,370 spring chinook on hand.

5,983,650 Total fry on hand November 30, 1925.

DISTRICT NO. 2

Showing the number of fingerling liberated into the waters of the Coast streams south of the Columbia River, as reported by the superintendents of the various hatcheries, by the State of Oregon, during the year 1925:

Hatchery	Spring Chinook	Fall Chinook	Silver- sides	Steel- heads	Total	Where Liberated
Nehalem	359,308	89,453	311,650	.....	760,411	Salmonberry River
Gold Creek ...	2,374,739	.....	1,576,700	571,900	4,523,339	Trask River
Nestucca	2,500,168	.....	.....	.....	2,500,168	Nestucca River
Alsea River ...	2,562,333	.....	4,487,800	3,250,214	10,300,347	Alsea River
Siuslaw .....	.....	1,137,160	.....	.....	1,137,160	Siuslaw River
Umpqua	3,236,539	.....	.....	.....	3,236,539	Umpqua River
South Coos ...	.....	3,062,490	1,736,600	490,760	5,289,850	South Coos River
Rogue River ..	.....	1,974,731	.....	.....	1,974,731	Rogue River
	11,033,087	6,263,834	8,112,750	4,312,874	29,722,545	

REPORT OF DIRECTOR OF HATCHERIES

DISTRICT NO. 1

Showing the number of eggs collected at the hatcheries operated by the State of Oregon tributary to the Columbia River, during the year 1926:

Hatchery	Spring Chinook	Fall Chinook	Silver- sides	Steel- heads	Sockeyes	Yanks	Totals
Bonneville		803,720			13,600		817,320
Klaskanine	20,400		290,360	38,000			348,760
Herman Creek	88,480				488,800		577,280
Santiam	8,149,677						8,149,677
South Santiam	1,923,744			1,059,000			2,982,744
Willamette	8,530,000						8,530,000
Wallowa						1,021,000	1,021,000
McKenzie	21,127,068						21,127,068
Co-operative Stations: U. S. Bureau—							
Clackamas		7,691,966			3,908,328		11,600,294
	39,839,369	8,495,686	290,360	1,097,000	4,410,728	1,021,000	55,154,143

1,059,000 steelheads transferred to Game Commission.

2,010,800 Spring chinook salmon transferred to U. S. Bureau of Fisheries and shipped to Rogue River.

3,030,880 Fall chinook salmon transferred to District No. 2.

DISTRICT NO. 2

Showing the number of eggs collected at the hatcheries operated by the State of Oregon on the Coast streams south of the Columbia River, during the year 1926:

Hatchery	Spring Chinook	Fall Chinook	Silversides	Steelheads	Totals
Nehalem			350,000		350,000
Gold Creek	1,535,000		6,290,000	3,455,000	11,280,000
Wilson River	750,000				750,000
Nestucca	2,150,000	100,000	55,000	802,000	3,107,000
Alsea	561,790	219,240	7,417,150	6,004,200	14,202,380
Siuslaw	365,000		272,000	94,000	731,000
Umpqua	3,937,880				3,937,880
South Coos		2,084,000	3,124,000	289,440	5,497,440
Co-operative Stations: U. S. Bureau of Fisheries....	2,010,800				2,010,800
	11,310,470	2,403,240	17,508,150	10,644,640	41,866,500

REPORT OF DIRECTOR OF HATCHERIES

DISTRICT NO. 1

Showing the number of fingerling liberated into the Columbia River and its tributaries, as reported by the superintendents of the various hatcheries, during the year 1926 by the State of Oregon:

Hatchery	Spring Chinook	Fall Chinook	Silver- sides	Steel- heads	Sockeyes	Yanks	Totals	Where Liberated
Bonneville	1,574,255	6,597,667	363,260	.....	.....	.....	8,535,182	Columbia River
Klaskanine .....	.....	2,845,400	270,750a	78,200	.....	.....	3,194,350	Klaskanine River
Herman Creek..	1,997,900	1,998,200	.....	.....	.....	6,200	4,002,300	Herman Creek
Santiam	4,972,000	.....	.....	.....	.....	.....	4,972,000	Santiam River
Willamette	4,312,800	2,226,000	.....	.....	.....	.....	6,538,800	Salmon Creek
Wallowa	3,806,000	2,818,500	.....	.....	3,438,900b	2,196,900c	12,260,300	Wallowa River
						300,000	300,000	Wallowa Lake
			82,000	.....	.....	.....	82,000	Imnaha River
McKenzie	3,478,470	.....	.....	.....	.....	.....	3,478,470	Gate Creek
Deschutes	1,111,949	.....	.....	.....	.....	.....	1,111,949	Deschutes River
	21,253,374	16,485,767	716,010	78,200	3,438,900	2,503,100	44,475,351	
							5,181,300	

Total fry liberated and left on hand November 30, 1926..... 49,656,651

a—1,998,200 silversides on hand.

b—2,905,000 sockeyes on hand.

c— 278,000 yanks on hand.

5,181,300 fry left on hand November 30, 1926.

DISTRICT NO. 2

Showing the number of fingerling liberated into the waters of the Coast streams south of the Columbia River, as reported by the superintendents of the various hatcheries, by the State of Oregon, during the year 1926:

Hatchery	Spring Chinook	Fall Chinook	Silver- sides	Steel- heads	Totals	Where Liberated
Nehalem ...	803,300	.....	1,549,900	.....	2,353,200	Salmonberry River
Gold Creek..	6,050,000	1,149,000	1,486,300	2,504,000a	11,189,300	Trask River
	100,000	.....	.....	.....	100,000	Foley Creek
	80,000	.....	.....	.....	80,000	Siletz River
	20,000	.....	.....	.....	20,000	Nestucca River
Nestucca ...	3,779,000	750,000	5,375,000	693,350	10,597,350	Nestucca River
Alsea River..	1,171,460	1,129,587	2,766,291	5,724,294	10,791,632	Alsea River
Siuslaw	629,900	.....	1,488,614	82,875	2,201,389	Siuslaw River
Umpqua	2,714,500	.....	1,990,500	.....	4,705,000	Umpqua River
South Coos..	475,310	3,065,800	3,237,854	252,820	7,031,784	South Coos River
Coquille .....	.....	995,000	1,975,000	.....	2,970,000	Coquille River
Yaquina .....	.....	517,288	966,425	.....	1,483,713	Yaquina River
Rogue River..	.....	2,720,000	.....	.....	2,720,000	Rogue River
	15,823,470	10,326,675	20,835,884	9,257,339	56,243,368	
a—500,000 steelheads on hand.....					500,000	

Total fry liberated and left on hand Nov. 30, 1926... 56,743,368

REPORT OF DIRECTOR OF HATCHERIES

DISTRICT NO. 1

Showing egg takes at the various stations operated by the State of Oregon, in the Columbia River District, for the years 1923 to 1926, inclusive:

	1923	1924	1925	1926
Bonneville				
Fall Chinook	385,000	3,929,000	3,345,000	803,720
Silversides		32,000		
Sockeyes				13,600
Klaskanine				
Spring Chinook		354,400	42,740	20,400
Silversides		48,000	429,500	290,360
Steelheads			100,000	38,000
Herman Creek				
Spring Chinook				88,480
Fall Chinook	162,540			
Sockeyes	43,200			488,800
Santiam				
Spring Chinook	6,837,587	8,694,672	10,504,636	8,149,677
South Santiam				
Spring Chinook	1,201,526	1,936,650	3,817,920	1,923,744
Steelheads				1,059,000
Willamette				
Spring Chinook	7,260,000	9,142,000	4,420,000	8,530,000
Wallowa				
Spring Chinook	24,840		50,000	
Silversides			84,200	
Yanks	877,508		806,900	1,021,000
McKenzie				
Spring Chinook	12,085,028	13,824,220	3,642,000	21,127,068
Imnaha				
Spring Chinook		313,460	275,100	
Troy				
Spring Chinook		525,000		
Sandy				
Fall Chinook			2,595,820	
	28,877,229	38,799,402	30,113,816	43,553,849

The above figures show actual egg takes at respective stations. Eggs received from outside stations under co-operative work are not included here.

SUMMARY

Showing Segregated Varieties

	1923	1924	1925	1926
Spring Chinook	27,408,981	34,790,402	22,752,396	39,839,369
Fall Chinook	547,540	3,929,000	5,940,820	803,720
Silversides		80,000	513,700	290,360
Sockeyes	43,200			502,400
Yanks	877,508		806,900	1,021,000
Steelheads			100,000	1,097,000
	28,877,229	38,799,402	30,113,816	43,553,849

REPORT OF DIRECTOR OF HATCHERIES

DISTRICT NO. 2

Showing egg takes at the various stations operated by the State of Oregon, on the Coast streams south of the Columbia River, for the years 1923 to 1926, inclusive:

	1923	1924	1925	1926
Nehalem				
Spring Chinook			863,000	
Fall Chinook	18,070	90,000		
Silversides			720,500	350,000
Gold Creek				
Spring Chinook	2,394,600	960,850	7,760,000	1,535,000
Fall Chinook			125,000	
Silversides	3,679,000	1,630,000	5,100,000	6,290,000
Steelheads		1,569,000		3,455,000
Wilson River				
Spring Chinook			1,377,000	750,000
Fall Chinook			110,000	
Silversides			650,000	
Nestucca				
Spring Chinook		4,446,880	4,070,000	2,150,000
Fall Chinook			782,250	100,000
Silversides			7,627,000	55,000
Steelheads				802,000
Alsea				
Spring Chinook	3,199,113	2,605,220	727,660	561,790
Fall Chinook			1,174,180	219,240
Silversides	6,295,604	7,132,000	2,674,430	7,417,150
Steelheads	4,506,200	2,789,894	3,357,746	6,004,200
Siuslaw				
Spring Chinook			430,000	365,000
Fall Chinook		190,000		
Silversides			452,000	272,000
Steelheads				94,000
Umpqua				
Spring Chinook	1,478,540	3,533,000	1,719,515	3,937,880
Silversides	284,200			
South Coos				
Fall Chinook	6,840,500	3,268,500	3,272,500	2,084,000
Silversides	3,606,000	3,956,500	7,892,000	3,124,000
Steelheads		1,014,500	567,910	289,440
	32,301,827	33,186,344	51,452,691	39,855,700

The above figures show actual egg takes at respective stations. Eggs received from outside stations under co-operative work are not included here.

SUMMARY

Showing Segregated Varieties

	1923	1924	1925	1926
Spring Chinook	7,072,253	11,545,950	16,947,175	9,299,670
Fall Chinook	6,858,570	3,548,500	5,463,930	2,403,240
Silversides	13,864,804	12,718,500	25,115,930	17,508,150
Steelheads	4,506,200	5,373,394	3,925,656	10,644,640
	32,301,827	33,186,344	51,452,691	39,855,700

REPORT OF DIRECTOR OF HATCHERIES

RECAPITULATION OF EGGS COLLECTED AT STATIONS OPERATED EXCLUSIVELY BY STATE OF OREGON

Years from 1923 to 1926, Inclusive—Districts Nos. 1 and 2

	1923	1924	1925	1926
District No. 1.....	28,877,229	38,799,402	30,113,816	43,553,849
District No. 2.....	32,301,827	33,186,344	51,452,691	39,855,700
	<hr/> 61,179,056	<hr/> 71,985,746	<hr/> 81,566,507	<hr/> 83,409,549

TABLE

Showing planting of fingerling in Columbia River District by Oregon Fish Commission:

Variety	1923	1924	1925	1926
Spring Chinook	14,230,562	28,642,893	30,616,996	21,253,374
Fall Chinook	1,236,734	441,946	9,400,824	16,485,767
Silversides	41,160	1,949,889	4,539,586	716,010
Steelheads .....	.....	159,500	45,000	78,200
Sockeyes	951,991	5,327,310	3,487,127	3,438,900
Yanks .....	.....	.....	246,700	2,503,100
	<hr/> 16,460,447	<hr/> 36,521,538	<hr/> 48,336,233	<hr/> 44,475,351
Fingerling of all varieties on hand November 30.....	<hr/> 5,327,310	<hr/> 5,094,511	<hr/> 5,983,650	<hr/> 5,181,300
Total fingerling liberated and on hand.....	<hr/> 21,787,757	<hr/> 41,616,049	<hr/> 54,319,883	<hr/> 49,656,651

TABLE

Showing the planting of fingerling in the Coast streams south of the Columbia River by Oregon Fish Commission:

Variety	1923	1924	1925	1926
Spring Chinook	4,568,263	6,858,002	11,033,087	15,823,470
Fall Chinook	3,316,122	9,061,974	6,263,834	10,326,675
Silversides	5,285,358	9,729,894	8,112,750	20,835,884
Steelheads	4,306,533	4,146,156	4,312,874	9,257,339
Humpbacks .....	.....	1,837,995	.....	.....
	<hr/> 17,476,276	<hr/> 31,634,021	<hr/> 29,722,545	<hr/> 56,243,368
Steelhead fingerling on hand November 30	<hr/>	<hr/>	<hr/>	<hr/> 500,000
Total fingerling liberated and on hand	<hr/> 17,476,276	<hr/> 31,634,021	<hr/> 29,722,545	<hr/> 56,743,368

RECAPITULATION OF FINGERLING LIBERATED INTO WATERS OF DISTRICT NO. 1 AND NO. 2

Years from 1923 to 1926, Inclusive

	1923	1924	1925	1926
District No. 1.....	16,460,447	36,521,538	48,336,233	44,475,351
District No. 2.....	17,476,276	31,634,021	29,722,545	56,243,368
	<hr/> 33,936,723	<hr/> 68,155,559	<hr/> 78,058,778	<hr/> 100,718,719

REPORT OF DIRECTOR OF HATCHERIES

TABLE

Showing amount of money expended for the actual operation of hatcheries, which includes the taking of spawn and feeding and caring for the young salmon. Cost of construction and equipment not included:

District No. 1				
Station	1923	1924	1925	1926
Bonneville	\$15,520.57	\$16,367.88	\$13,918.86	\$14,964.39
Klaskanine	5,933.30	7,675.95	5,122.72	5,798.27
McKenzie	5,980.13	874.91	6,156.58 (2)	6,307.57
Willamette	2,671.40	2,943.37	6,460.70 (2)	3,566.92
Santiam	2,724.39	2,322.04	8,886.71 (3)	5,419.04
Herman Creek	2,511.62	3,542.76	3,309.68	4,312.95
Lower Santiam	3,742.14	5,119.62	.....	2,356.70
Oakridge	4,228.48	3,269.11	.....	2,274.07
Wallowa Feeding Ponds..	5,132.35	10,475.21	8,444.35	8,868.08
South Santiam	2,791.60	2,201.69	.....	1,927.54
Gate Creek	54.00	6,469.81	.....	.....
Imnaha .....	.....	578.80	.....	126.75
Deschutes .....	.....	908.57	1,178.49	561.06
Troy .....	.....	1,385.09	.....	.....
Sandy River .....	.....	.....	810.85	.....
McKenzie Eyeing Station.	.....	.....	.....	2,085.04
John Day River Racks....	.....	.....	.....	10.00
	\$51,289.98	\$64,134.81	\$54,288.94	\$58,578.38

District No. 2				
Station	1923	1924	1925	1926
Nehalem	\$ 1,330.80	\$ 2,402.88	\$ 3,266.48	\$ 2,619.79
Gold Creek	3,319.75	8,791.09	5,142.96	9,010.66
Alsea	5,379.08	6,051.76	5,439.67	5,751.38
Siuslaw	1,899.31	3,768.57	3,227.95	3,577.49
Umpqua	4,731.50	7,942.32	4,613.57	4,733.92
South Coos	4,663.58	5,894.72	5,175.01	4,964.22
Coquille	300.00	1,579.82	839.73	2,720.65
Rogue River .....	.....	14.55	1,761.41	2,123.81
Nestucca .....	.....	1,339.30	4,599.82	6,708.24
Wilson River .....	.....	.....	1,496.95	1,093.44
Yaquina .....	.....	.....	324.80	2,874.53
	\$21,624.02	\$37,785.01	\$35,888.35	\$46,178.13

TABLE

Showing Cost of Eggs and Fish Handled for the Years
1923 to 1926, Inclusive

	1923	1924	1925	1926
Number of fish and eggs handled	95,115,779	140,141,305	159,625,285	184,128,268
Operation cost of hatcheries	\$ 72,914.00	\$101,919.82	\$ 90,177.29	\$104,756.51
Cost of eggs taken and fish handled, per 1000 .....	.77	.73	.56	.57