

will be assured and subsequently the attendance of the member which we want more than his fine.

In conclusion, I tender my most sincere thanks to your Honorable body and to the officers and members of the Fire Department for the earnest support you have always given me, also to the members of the several municipal departments, and to Messrs. P. F. Morey, General Manager Electric Light Co., J. H. Thatcher, Manager Telephone Co., and their employes, for the many courtesies shown me in the discharge of my duties.

Very respectfully,

A. J. COFFEE, JR.,
Supt. F. A. Tel.

CITY OF PORTLAND,

OREGON.



Mayor's + Message

—AND—

Municipal + Reports,

—FOR THE—

Fiscal Year Ending December 31, 1889.



PORTLAND, OREGON:
Schwab Bros. Printing and Litho. Co.

1889.

CITY OF PORTLAND,

OREGON.



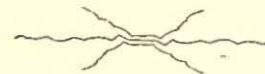
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—AND—

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CITY OFFICERS—1889--90.

Mayor	<i>Van B. DeLashmutt.</i>
Treasurer	<i>H. W. Monnastes.</i>
Auditor and Clerk	<i>W. H. Wood.</i>
Attorney	<i>W. H. Adams.</i>
Deputy Attorney	<i>Chas. Petrain.</i>
Superintendent of Streets	<i>W. S. Chapman.</i>
Surveyor	<i>E. W. Paget.</i>
Police Judge	<i>A. H. Tanner.</i>
Chief of Police	<i>S. B. Parrish.</i>
Overseer Street Cleaning and Sprinkling	<i>F. D. Matthews.</i>
Deputy Auditor and Clerk	<i>Walter Matthews.</i>
“ “ “	<i>S. Grutz.</i>
Deputy Superintendent Streets	<i>W. E. Mulhollan.</i>
“ “ “	<i>Wm. Braden.</i>
“ “ “	<i>Wm. Connor.</i>
“ “ “	<i>J. D. McKay.</i>
Assistant Surveyor	<i>D. S. Whitfield.</i>
“ “	<i>J. Hannon.</i>
Harbor Policeman	<i>J. J. Byrne.</i>
Poundmaster	<i>Wm. Myers.</i>

COMMON COUNCIL.

President of the Council *Tyler Woodward.*

FIRST WARD.

G. Castendieck. *R. Gerdes.* *Richard Hoyt.*

SECOND WARD.

S. Farrell. *W. A. Scoggin.* *C. M. Forbes.*

THIRD WARD.

Tyler Woodward. *Wm. Showers.* *Wm. Flicaner.*

WATER COMMITTEE.

MEMBERS:

HENRY FAILING,	W. S. LADD,	FRANK DEKUM,
S. G. REED,	C. H. LEWIS,	L. THERKELSEN,
T. M. RICHARDSON,	L. FLEISCHNER,	A. H. JOHNSON,
H. W. CORBETT,	R. B. KNAPP,	W. K. SMITH,
J. LOEWENBERG,	C. A. DOLPH,	CHAS. E. SITTON.

OFFICERS:

HENRY FAILING,	Chairman.
C. H. LEWIS,	Treasurer.
FRANK T. DODGE,	Clerk.

SUB-COMMITTEE ON WATER WORKS.

HENRY FAILING,	T. M. RICHARDSON,	L. FLEISCHNER.
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SUB-COMMITTEE ON CONSTRUCTION.

W. S. LADD,	J. LOEWENBERG,	T. M. RICHARDSON.
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MAYOR'S MESSAGE.

MAYOR'S OFFICE,
PORTLAND, OREGON, January 2, 1890. }

To the Honorable Common Council of the City of Portland:—

GENTLEMEN:—In view of the fact that since the adoption of our City Charter wherein it is made the duty of the Mayor to communicate annually to the Common Council by message, giving an account of the city's affairs for the previous year and making such recommendations and suggestions as he may deem for the best interests of the city, so much of the business of this city has been delegated out to the respective commissions, whose acts are independent of the general city government and in which the Mayor takes no part, either advisory or otherwise, that I feel this portion of the Mayor's duty to be a custom "more honored in the breach than in the observance." The financial condition of this city as given by the Auditor and Clerk and the Treasurer show that the receipts and expenditures for the year ending Dec. 31st, 1889, were as follows:

Total receipts, including bal. in Treas'y Jan. 1, '90	\$483,687.47
Total expenditures	395,879.78
Total balance in treasury	\$87,807.69

FIRE DEPARTMENT.

The estimated expense of the Fire Department for the current year, as given by the Commissioners, is \$113,332.34 which includes \$31,788.50 for two engine companies referred to in another place. The efficiency in the fire department, as evidenced by the very small comparative loss of the past year, is certainly

very gratifying, and justifies the wisdom of the change to a Paid Fire Department. This branch of our city government is thoroughly efficient, and is meeting with general approbation from the public at large.

During the year just past I took occasion to communicate to your Honorable Body by special message recommending a properly constructed fire boat with plenty of apparatus for extinguishing fires, and with a sufficient crew to handle the same, as well as an extra fire engine for both the northern and southern ends of the city. The latter suggestion has been adopted by the Commissioners, and suitable grounds procured for the same, and the details are being arranged for the establishment of such fire companies. The Commissioners have disposed of the engine house property on Morrison street, netting \$40,750. There is not sufficient funds at the disposal of the Fire Commissioners to build and maintain a fire boat, and thus it would seem that this very much needed adjunct to the Fire Department will have to be dispensed with for the present, and yet I very much fear we shall wake up ere long to a full realization that the necessity for one was greater than was anticipated. East Portland and Albina are proportionately interested in this matter, and this is the one great reason for the consolidation of these cities with Portland, a bill for which passed both houses of the last legislature, and failed to become a law by reason of the veto of the Governor. It is to be hoped that this measure may be pressed before the next legislature, and that it may meet with success. The reasons for the consolidation are so numerous, and it has met with such hearty support from the entire community, that I do not deem it necessary to make any comments, but will assume it to be a generally recognized object to be sought for by one and all, who are interested.

POLICE DEPARTMENT.

The estimated expense of the Police Department for the current year, as given by the Police Commissioners, is \$65,204.00.

I think a great deal of unjust criticism and censure is heaped upon this department of our city government. Divested of its political features, (like that of the fire department) as an efficient and progressive branch of the city's service it will compare favorably with any city in the land. The force is composed of a body of men who do credit to the positions they hold—the discipline is good and the men are capable and attentive, and I think there is no just reason why contempt should be heaped upon them—and while I have little sympathy with the Commission system in any branch of our city government, when constituting an oligarchy in their respective departments, yet I feel that it is nothing more than just to accord to the Police Department of the City of Portland the credit due it for being an efficient, well managed, and creditable branch of our city government.

RIVER DEPARTMENT.

The City Dredge had been for several years allowed to remain unused, and per consequence had gotten out of repair. The tender for it had been leased out, burned to the waters edge, rebuilt, and its ownership shrouded in doubt, and altogether we were illy prepared to accomplish much in the way of keeping the channel of the river open for shipping. In the meantime, for several years the river had been shoaling, the stage of water was unprecedentedly low, and matters were becoming serious. Arrangements were made with Major Handbury, acting for the government, whereby he was to operate the City Dredge, on the bars of the Willamette and Columbia rivers, at the expense of the General Government, providing the city would put it in repair, which was done at a cost of \$6,647.98, and other expenses incurred amounting to \$1015, making a total cost of \$7,662.98. It was then operated by the government, which succeeded in deepening the channel to a depth of twenty feet at low water. For this work the City Dredge and a Government Dredge were employed—the latter removed 32,000 yards

of dirt and sand while the former removed 94,000 yards; channels were cut 700 feet in length and 150 feet in width, and the season closed by placing the river in a condition so that vessels could come and go with full cargoes at all seasons of the year. The tender (the Louisa Vaughn) was rebuilt by the lessees and turned back to the city, in as good or better condition than when they received her.

STREET IMPROVEMENTS.

There has been a very large amount of money expended on street work during the last year, and I am not altogether convinced that a very large percentage of it is not virtually thrown away. Every year it becomes more apparent that the material used in our macadam and the work done is a miserable failure, and I wonder at the patience with which a long suffering community quietly and good-naturedly submit to the very heavy expenses heaped upon them with so little lasting benefit to their property. The crushed rock of the foot hills decomposes and grinds into dust to be carted away from the very day it is placed on the streets, and hence lasts comparatively but a very short time, and it would seem about time that we discontinue its use. Where the improvement will not justify the more expensive outlay of Belgian block or bituminous rock, then river gravel should be used. It does not make quite so nice a street at first, but it improves with use and practical experience teaches us that it will stand wear better and longer than any other kind of improvement that has ever been tried in this city.

SEWERS.

During the past year we have built the Johnson Creek sewer, at a cost of \$69,469.47, which constitutes the second large artery to the sewerage system of the city. Also the westerly extension of the Tanner Creek sewer at a cost of \$22,647.60, and the 15th, Market and 14th street sewer at a cost of \$8,332.40, both of

the latter being a part of the Tanner Creek sewer system. The 15th, Market and 14th street must be speedily connected with the Tanner Creek sewer, else serious consequences is liable to speedily follow.

The Tanner Creek and Johnson Creek sewers have been very heavy burdens upon the property owners, but they had become indispensable to the public health and were not constructed a day too soon. Still, with occasional feeders and branches, they will probably be adequate to accommodate all legitimate requirements in their respective districts for several years to come. The sewer system of a large city is among the most difficult problems of its public improvements, and while this city is naturally easily drained, still we should outline a general sewerage system and make all improvements conform to it, for it is a vital question affecting the health of the city and should be the first consideration to be taken into account.

CITY HALL.

A site has been selected for a City Hall at a cost of \$100,000. This will leave a fund at our disposal after disposing of the jail property of a hundred and forty to a hundred and fifty thousand dollars, with which we can construct a wing to what will constitute a building when completed costing from three to five hundred thousand dollars; and with which we can get along temporarily until additional funds can be provided for whereby it can be completed. We are getting too large to have our officers and business scattered all over the city, not to say anything about the extra and useless expenses incurred for rents and other additional expenses thereby incurred, and hence a City Hall has become a necessity which common business prudence could no longer ignore.

WATER SUPPLY.

Although new lines of pipe and additional facilities are constantly being made, each additional outlay only proves more and

more conclusively that the correct solution of the water supply for the city should be the bringing in of the Bull Run water by gravitation, and thus do away with the expense of pumping and at the same time furnish consumers with a healthful supply of pure mountain water at nominal cost. The question of taxation or non-taxation of the bonds is one in which the people at large take no interest, and at most could only enter into the consideration so far as it might affect the selling value of the bonds or the political standing of those who oppose or advocate taxing them, and hence it would amount to but little, practically.

It is to be hoped that a law may be passed enabling the city to furnish such supply of water, leaving the bent of general legislation and of precedent to govern whether the bonds shall be taxable or non-taxable.

The very general disappointment throughout this city, East Portland and Albina caused by the failure of the Bull Run water scheme was not because it failed with a clause in it making the bonds non-taxable, but because it failed at all, and of the general desire for an ample supply of health-giving water fresh from the snows of Mount Hood; and little or no interest was felt in the collateral issue of whether the bonds should be taxable or otherwise.

In either event the practical results would be about the same, and stickling for an imaginary political vantage, at the expense of a great and growing necessity wherein the health of a hundred thousand people was endangered, was an evidence of a lack of ability to grasp the situation and rise to the dignity of the importance of the matter at issue.

TERMINAL FACILITIES.

During the year just past I took occasion to call your attention to the condition of the Terminal Facilities in this city, since which time some improvement has been made by prohibiting

the appropriation of the only side-walk by the teams and the complete appropriation of the streets by the railroads. The City Attorney has under consideration the rights of the city in connection with the matter—the remedy to be pursued to compel the Terminal Company to live up to their part of the contract, under which they procured the vacating of certain streets and the advisability of taking legal proceedings for the re-opening of said streets, etc. The city's interests have been sadly neglected in connection with this matter. The just demands of the traveling public for decent accommodation are wholly ignored to the disgrace of the railroads and the shame of the city, and the matter should not be permitted to rest until the wrong is righted.

HEALTH.

During the past year our city was visited by an epidemic in the form of small-pox, and while it was very quickly suppressed, considering the extent it assumed at the very outset, still the expense was quite heavy, and more than it would have been, had it not been for the fact that it was feared it would very seriously affect the business of the city; and hence extraordinary measures were adopted, and it was stamped out so quickly and effectually as to cause general surprise and rejoicing. A new pest house has been built, and the city is now prepared to deal with infectious diseases in a manner to keep under control most any epidemic that is liable to visit us.

MISCELLANEOUS.

In conclusion, I will say that there is not that unity of action between the respective Commissions and the City Government, which should exist in order to obtain the best results. Each Commission acts independent of and without consultation or concert of action with the other or with the City Government, the latter has no more or closer relations with them than does

any citizen—each tries to see how completely it can ostracize itself from the others and hence it is a “house divided against itself.” A general revision should be made in the respective commissions of the city—all should be elective or appointive, or hold their offices for life, or during good behavior, or by the right of conquest. All should acknowledge allegiance to the City Government and be required to submit their work to the scrutinizing approval of some recognized authority beyond themselves, and stated reports should be exacted and all funds coming into their hands should pass through the City Treasury.

Each Commission seems to have had the breath of life breathed into it through a different inspiration; some are appointive, others are self-procreative, and still others are recreative—while all seem to be perpetuative. One renders partial accountability to the City Government—another deigns to render an accountability only to itself—while a third acknowledges no superiority this side of the supernatural. The manner of their going is even more complex than that of their coming. One would go only when the combination is turned on against him by another—the other would only go when the judicial requiem was sounded in his ears—while the third would go when it pleased, the very select choice of his own good self; and hence the people have no possible chance to exercise a voice in bringing them into office, keeping them in office, or putting them out of office, and no chance to express their approval or condemnation of their stewardship.

Very respectfully your obedient servant,

VAN B. DELASHMUTT,

Mayor.

ANNUAL REPORT
—OF THE—
AUDITOR AND CLERK
—OF THE—
CITY OF PORTLAND,

FOR THE YEAR ENDING DECEMBER 31, 1889.

To the Hon. the Common Council of the City of Portland:

GENTLEMEN:—I herewith submit to you my annual report for the year ending December 31, 1889.

GENERAL FUND.

Balance in fund Dec. 31, 1888, . . . \$ 11,782 90

Rec'd from—

Tax roll 1889,	\$25,164 98	
1889 dlqt. coll. by Chf. Police . . .	964 15	
1889 paid treasurer . . . \$120 90		
1888	88 70	
1887	91 00	
1886	37 50	
1885	19 35	
1884	5 50	
1883	2 25	
1880	1 00	
1865	22 67	
1864	1 77	390 64

Interest and costs delinquent tax . .	11 32	
Jasper Ward, for use of city horse . .	9 00	

Amount carried forward, \$38,322 99

GENERAL FUND—Continued.

<i>Amount brought forward,</i>			\$38,322 99
Sale of old material from City Dredger	5	75	
Two dump scows to U. S. Gov't	10	00	
Old street lamps	31	50	
Lamp posts destroyed	27	50	
Two old carts sold, etc.,	37	00	
Redemption of property—			
A. M. Neunert,	\$	50 00	
L. E. Thompson	480	95	
P. L. Willis	100	00	
Mrs. Ann Sinnott	200	00	
Otto Von Goiden	142	75	
C. J. McDougall	35	05	
L. A. Deady and L. Brooke	34	84	1,043 59
Business license	\$94,555	48	
Dog license	793	50	95,348 98
A. H. Tanner, Pol. Jdg., fines and costs, city and state cases	8,058	50	
Chf. of Police, costs dlqt. street and sewer assessments	222	13	
Rent of Block 132, City, year ending June 10, 1890	250	00	
Pound fees and costs	134	15	
Transfers from sundry street and sewer funds	4,166	79	
			\$147,658 88

Contra.

Transferred to—

Willamette River fund	\$	7,800 00
Park fund	1,041	92
Interest fund	5,765	00
Police Dept. fund	6,500	00
<i>Amount carried forward,</i>	\$21,106	92

<i>Amount brought forward,</i>			\$21,106 92
Street Cleaning and Sprinkling fund	18,000	00	
Lamp fund	21,300	00	
Fire Dept. fund	6,500	00	
City Hall fund	1,000	00	
Marquam's Gulch Sewer fund	1,421	69	
Tanner Creek Sewer fund	1,477	29	
Fund Impvt. Corbett street	44	55	
Sewer Caruthers street	7	90	
Fourth street	40	47	
Extension W street	371	00	
Improvement Williams street	19	52	
Hood street	231	89	
Sewer Harrison street	128	90	
Improvement South Front street	88	78	
Sewer, City Park to Willamette riv.	2,150	00	
G street	58	00	
J street	18	71	
West extension Tanner Creek	400	38	74,366 00
Warrants paid and returned to Dec. 31	60,571	99	
Balance in Treasury Dec. 31, 1889	12,720	89	
			\$147,658 88

AUDITED CLAIMS PAID BY WARRANTS.

Salaries.

Mayor and Members Common Council	\$	6,000 00
Auditor and Clerk	2,400	00
City Surveyor	2,400	00
Supt. of Streets	2,400	00
City Attorney	1,999	92
City Treasurer	1,387	50
Street Repairer	1,080	00
Deputies Supt. of Streets	4,912	18
“ City Surveyor	1,565	88
Police Judge	1,919	96
Harbor Policeman	379	92
Poundmaster	294	00

Street and Public Property.

Street Impvts. in front Public Property	\$ 2,312 90
Repairs to streets and bridges	3,591 81
Sewers and Nuisances	617 17
Surveyor's Assistants	3,030 75
Pay of Street Viewers	2,056 00
Care of Public Grounds	4,009 42
Street Signs	27 05

Council Rooms and Offices.

Rent Council Rooms, Offices, fuel, etc.	\$ 3,241 04
Stationery and blanks	1,607 73

Miscellaneous.

Advertising	\$ 886 64
Litigation	2,598 80
Clerk Hire	2,146 30
Copying Assessment Roll	254 00
Relief of certain persons	1,302 05
Miscellaneous	803 26
Infectious and Contagious Diseases	6,117 46
Expenses Crematory	400 00
Purchase of Property for Delqt. Ass'ts	219 04
Elections	116 00

Total warrants drawn, 1889	\$62,076 78
Warrants outstanding Dec. 31, 1888	2,387 24
	<u>64,464 02</u>
Paid and returned to Dec. 31, 1889	\$60,571 99
Outstanding Dec. 31, 1889	3,892 03
	<u>64,464 02</u>

FIRE DEPARTMENT FUND.

Balance in Treasury Dec. 31, 1888	1,697 98
Received from—	
Tax Roll, 1889	\$57,519 96
" 1889, delinquent	2,203 80
Transfer from General Fund	6,500 00
Issue of Exempt Certificates	10 00
Sale of No. 1 Engine Property	40,750 00
" two (2) Houses	150 00
	<u>107,133 76</u>
	\$108,831 74

Contra.

Warrants paid and ret'd to Dec. 31, 1889	\$73,217 71
Balance in Treasury Dec. 31, 1889	35,614 03
	<u>108,831 74</u>

Warrants Drawn.

General Expenses of Fire Department	\$70,961 39
Purchase of Real Estate	4,750 00
Warrants Outstanding Dec. 31, 1888	1,217 86
	<u>76,929 25</u>
Warrants paid and ret'd to Dec. 31, 1889	\$73,217 71
" outstanding Dec. 31, 1889	3,711 54
	<u>76,929 25</u>

POLICE DEPARTMENT FUND.

Balance in Fund Dec. 31, 1888	\$ 2,693 41
Received from Tax Roll, 1889	46,734 96
Delinquent Tax Roll, 1889	1,790 60
Transfer from General Fund	6,500 00
	<u>57,718 97</u>

Contra

Warrants p'd and ret'd to Dec. 31, 1889	\$50,702 19
Balance in Treasury Dec. 31, 1889	7,016 78
	<u>57,718 97</u>

Warrants Drawn.

Pay of Police	\$45,382 80	
Expenditures Police Building	2,413 54	
Board of Prisoners	2,164 58	
Medical attendance	114 10	
Indigent sick	436 50	
Contingent Expenses	216 11	
Warrants outstanding Dec. 31, 1889	115 21	
	<u>50,842 84</u>	
Warrants p'd and ret'd to Dec. 31, 1889	\$50,702 19	
Outstanding Dec. 31, 1889	140 65	
	<u>50,842 84</u>	

WILLAMETTE RIVER FUND.

Balance in Fund Dec. 31, 1888	\$ 153 25	
Received transfers from General Fund	7,800 00	
	<u>7,953 25</u>	

Contra.

Warrants p'd and ret'd to Dec. 31, 1889	\$ 7,707 50	
Balance in Fund Dec. 31, 1889	245 75	
	<u>7,953 25</u>	

Warrants Drawn.

Salary Watchman, Supt., and Engineer Dredger	\$ 1,015 00	
Repairs to dredger, etc.,	6,647 98	
Warrants outstanding, Dec. 31, 1888	92 94	
	<u>7,755 92</u>	
Warrants p'd and ret'd to Dec. 31, 1889	\$ 7,707 50	
Outstanding Dec. 31, 1889	48 42	
	<u>7,755 92</u>	

LAMP FUND.

Balance in Fund Dec. 31, 1888	\$ 2,073 25	
Received transfers from General Fund	21,300 00	
	<u>23,373 25</u>	

Contra.

Warrants p'd and ret'd to Dec. 31, 1889	\$23,235 40	
Balance in Treasury Dec. 31, 1889	137 85	
	<u>23,373 25</u>	

Warrants Drawn.

Lighting Street Lamps	\$25,090 43	
Warrants outstanding to Dec. 31, 1888	2,168 32	
	<u>27,258 75</u>	
Warrants p'd and ret'd to Dec. 31, 1889	\$23,235 40	
Outstanding Dec. 31, 1889	4,023 35	
	<u>27,258 75</u>	

PARK FUND.

Balance in Treasury Dec. 31, 1888	\$ 26 00	
Rec'd transfers from General Fund	1,041 92	
	<u>1,067 92</u>	

Contra.

Warrants p'd and ret'd to Dec. 31, 1889	\$ 1,041 92	
Balance in Treasury Dec. 31, 1889	26 00	
	<u>1,067 92</u>	

Warrants Drawn.

Salary Park Keeper	1,041 92	
Warrants outstanding Dec. 31, 1888, none.		
Warrants p'd and ret'd to Dec. 31, 1889	1,041 92	
“ outstanding, none.		

STREET CLEANING AND SPRINKLING FUND.

Balance in Fund Dec. 31, 1888	\$ 293 87	
Received transfers from General Fund	18,000 00	
From Tax Roll, 1889	14,380 00	
“ “ 1889, delinquent	550 95	
	<u>33,224 82</u>	

Contra.

Warrants p'd and ret'd to Dec. 31, 1889	\$31,832 54	
Balance in Fund Dec. 31, 1889	1,392 28	
	<u> </u>	33,224 82

Warrants Drawn.

General Expenses of Department . . .	\$33,310 66	
Warrants outstanding Dec. 31, 1888 . . .	268 58	
	<u> </u>	33,579 24
Warrants p'd and ret'd to Dec. 31, 1889	\$31,832 54	
" outstanding Dec. 31, 1889 . . .	1,746 70	
	<u> </u>	33,579 24

INTEREST FUND.

Received transfers from General Fund	5,765 00
--	----------

Contra.

Coupons returned paid to Dec. 31, 1889	5,765 00
--	----------

WATER BONDS—INTEREST FUND.

Balance in Fund Dec. 31, 1888	\$12,500 00	
Amount paid Treasurer by Water Com.	30,000 00	
	<u> </u>	42,500 00

Contra.

Interest Coupons returned paid to Dec. 31, 1889	\$27,500 00	
Balance in Fund Dec. 31, 1889	15,000 00	
	<u> </u>	42,500 00

CITY HALL FUND.

Received transfer from General Fund	1,000 00
---	----------

Contra.

Balance in Fund Dec. 31, 1889	1,000 00
---	----------

STREET IMPROVEMENT FUNDS.

Total of Balances in Funds, Dec. 31, 1888	\$5,658 85	
Receipts	35,430 88	
	<u> </u>	41,089 73

Contra.

Total Expenditures	\$35,336 32	
Balances in Funds Dec. 31, 1889	5,753 41	
	<u> </u>	41,089 73

SEWER FUNDS.

Total Balances in Funds Dec. 31, 1888	\$ 6,306 74	
Receipts	66,895 38	
	<u> </u>	73,202 12

Contra.

Total Expenditures	\$65,580 71	
Balance in Funds Dec. 31, 1889	7,621 41	
	<u> </u>	73,202 12

STREET EXTENSION FUNDS.

Total Balances in Funds Dec. 31, 1888	\$ 4,310 50	
Receipts	10,205 00	
	<u> </u>	14,515 50

Contra.

Total Expenditures	\$13,388 50	
Balances in Funds Dec. 31, 1889	1,127 00	
	<u> </u>	14,515 50

STREET AND SEWER INTEREST FUND.

Receipts	152 29
--------------------	--------

Contra.

Balance in Fund, Dec. 31, 1889	152 29
--	--------

SUMMARY OF BALANCES IN TREASURY, Dec. 31, 1889.

General Fund	\$12,720 89
Fire Department Fund	35,614 03
Police Department Fund	7,016 78
Willamette River Fund	245 75
Lamp Fund	137 85
Park Fund	26 00
Street Cleaning and Sprinkling Fund	1,392 28
Water Bonds, Interest Fund	15,000 00
City Hall Fund	1,000 00
Street Improvement Funds	5,753 41
Sewer Funds	7,621 41
Street Extension Funds	1,127 00
Street and Sewer Interest Fund	152 29
Total Balance,	87,807 69

STATEMENT OF RECEIPTS AND EXPENDITURES.

Total Balance in Treasury, Dec. 31, 1888	47,648 92	
Receipts,	436,038 55	483,687 47
<i>Contra.</i>		
Total Expenditures	\$395,879 78	
Balance in Treasury Dec. 31, 1889	87,807 69	483,687 47

SUMMARY OF BONDED INDEBTEDNESS.

Bonds due May 1st, 1891, held by 1st National Bank	\$56,500 00
Bonds due June 1st, 1893, held by 1st National Bank	20,000 00
Bonds due June 1st, 1893, held by I. Steinhart, S. F.	23,500 00
Total,	100,000 00

Respectfully submitted,

W. H. WOOD,
Auditor and Clerk.

PORTLAND, OR., December 31, 1889.

Appendix to Auditor and Clerk's Report.

The following tabulated statement shows the condition of each Street Improvement, Sewer and Street Extension Fund, at the close of the fiscal year, ending December 31st, 1889:

STREET IMPROVEMENT FUNDS.

Street.	Bal. in Fund Dec. 31, 1888.	Receipts.	Expenditures.	Bal. in Fund Dec. 31, 1889.
North 11th -----	\$ 190 03	\$	\$ 190 03	\$
North 21st -----	139 50	169 33	250 00	58 83
Chapman -----	641 31		606 26	35 05
"S," 22d to 27th --	14 65	33 61	44 91	3 35
3d and N. 3d -----	184 98		184 98	
15th -----	97 25		97 25	
Spring -----	50 46	151 24	201 70	
7th -----	54 21		54 21	
Clay -----	48 77	158 21	206 98	
N. 1/2 J -----	7 00	123 40	130 40	
S. Front, Porter to Gaines	2,553 03	1,028 48	3,581 50	01
C -----	214 26	217 90	432 16	
Columbia -----	104 93	37 27	96 51	45 69
Yamhill, 13th to 14th	3 00		3 00	
Yamhill, 4th to 9th		1 00		1 00
Second Avenue -----	76 23	427 53	503 76	
"G" -----	45 93		45 93	
"A" -----	16 50	9 12		25 62
S. Front, Gaines to 1st Ave	1,040 20	641 12	1,606 23	75 09
Hood -----	62 75	231 89	280 00	14 64
Taylor -----	1 41			1 41
Harrison -----	12 04		12 04	
N. 18th -----	1 72	25 95		27 67
N. 16th -----	21 04			21 04
Corbett -----	75 65	117 92	193 57	
N. 13th, Bdg. -----	2 00		2 00	
"P" -----		1,321 90	1,316 20	5 70
Ella -----		1,307 31	1,264 01	43 30
N. 14th -----		6,570 66	2,532 57	4,038 09
"N" -----		65 17		65 17
N. 10th -----		673 50	300 00	373 50
"N," 10th to Front		1,121 33	1,113 33	8 00
Grover -----		675 10	600 00	75 10
Porter -----		156 09	117 50	38 59
Gaines -----		1,051 80	1,050 00	1 80
"E" -----		14,942 20	14,680 00	262 20
"B" -----		42 18		42 18
8th -----		2,490 38	2,000 00	490 38
"F," 21st to 23d -----		571 62	571 62	
S. Front, 1st Ave. to City Bdg.		1,035 05	1,035 05	
Williams, Front to Water		32 62	32 62	
Totals, -----	\$5,658 85	\$35,430 88	\$35,336 32	\$5,753 41

SEWER FUNDS.

Street.	Bal. in Fund Dec. 31, 1888.	Receipts.	Expenditures.	Bal. in Fund Dec. 31, 1889.
Caruthers	\$ 36 99	\$ 7 90	\$ 44 89	
Lincoln	40 22	38 58	49 50	29 30
Sherman	219 16	150 20	369 36	
Grant	23 40		23 40	
Hood	97 41	12 13	100 00	9 54
"N"	2,672 30	185 51	2,857 81	
Sherman, 6th to 7th	23 00	27 00	50 00	
Tanner Creek	94 88	2,920 16	3,015 04	
East Park	90 39	43 96	134 35	
Marquam Gulch	216 81	1,564 19	1,743 50	37 50
"F," 19th to 20th	33 55	75 20	108 75	
"H," 10th to 20th	238 00	823 48	1,061 48	
"S"	2,075 55	1,518 42	3,484 50	109 47
"J"	142 00	4,137 61	4,258 36	21 25
4th	209 53	40 47	250 00	
Harrison	69 00	128 90	197 90	
"B"	24 21	60 65	24 21	60 65
7th	34		34	
"K"				
"H," 20th to 22d		4,531 10	3,600 00	931 10
"I"		1,211 15	1,100 00	111 15
S. 1st		3,591 93	3,400 00	191 93
"C"		1,346 18	1,342 13	4 05
Johnson Creek		1,298 11	1,249 50	48 61
"S"		4,067 07	2,150 00	1,917 07
S. 2d		2,623 30	2,500 00	123 30
"O"		1,509 87	1,200 00	309 87
S. Water		7,694 94	6,492 00	1,202 94
15, Market and 14th		1,086 72	1,000 00	86 72
W. ex. Tanner Creek		5,971 95	5,863 57	108 38
9th		16,769 08	14,447 60	2,318 48
10th		863 54	863 44	10
"G," 18th to 21st		878 68	878 68	
		1,720 40	1,720 40	
Totals	\$6,306 74	\$66,895 38	\$65,580 71	\$7,621 41

STREET EXTENSION FUNDS.

Street.	Bal. in Fund Dec. 31, 1888.	Receipts.	Expenditures.	Bal. in Fund Dec. 31, 1889.
2d	\$1,971 50		\$ 1,971 50	
"B"	454 00	5 00	454 00*	5 00
N. 21st, E to L	30 00			30 00
N. 22d	5 00			5 00
Hood	817 00		60 00	757 00
Salmon	1,000 00		1,000 00*	
3d and N. 3d	25 00			25 00
N. 1st	8 00			8 00
"W"		3,475 00	3,178 00	297 00
N. 23d, J to Goldsmith Add.		1,600 00	1,600 00	
N. 22d, J to Goldsmith Add.		1,600 00	1,600 00	
Chapman		1,725 00	1,725 00	
2d, Yamhill to Taylor		1,800 00	1,800 00	
Totals	\$4,310 50	\$10,205 00	\$13,388 50	\$1,127 00

* Returned to General Fund by Ordinance.

INVENTORY OF PROPERTY BELONGING TO THE
CITY—PUBLIC GROUNDS, Etc.

A tract of land containing five (5) acres in the Terwilliger D. L. C., fronting on the west line of Multnomah street and adjoining the south line of the Caruthers D. L. C.

A tract of land containing five (5) acres in the Caruthers D. L. C., fronting on the west line of Multnomah street and adjoining the south line of said Caruthers D. L. C.

Park Blocks—Numbered and designated respectively, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, city proper; and A, B, C, D, E, F, in Couch addition to City of Portland, aggregating 7-45 acres

The Public Squares—Situate in city proper, and bounded as follows: No. 53—On the north by the south line of Salmon street, on the east by the west line of Third street, on the south by the north line of Main street, and on the west by the east line of Fourth street. No. 54—On the north by the south line of Main street, on the east by the west line of Third street, on the south by the north line of Madison street, on the west by the east line of Fourth street.

Market Square No. 132—Situate in city proper, and bounded as follows: On the north by the south line of Clay street, on the east by the west line of Second street, on the south by the north line of Market street, on the west by the east line of Third street, containing 1 acre.

City Park Proper—Bounded and described as follows: On the north by the Barnes county road, on the east by the H. D. Green and Donald Macleay tracts of land, on the south by a continuation of the south boundary line of the Donald Macleay tract of land, on the west by the King donation land claim, containing 40.78 acres.

City Jail and Police Station—Lot 4, Block 30, City, and City Jail building thereon.

PROPERTY IN POSSESSION OF THE CITY BY VIRTUE
OF CHIEF OF POLICE SALES.

Lot 6 in block 6, Watson's addition; purchased November 3, 1883, for improvement of S street.

A triangular piece of land between Washington, B and Lownsdale streets, purchased Nov. 7, 1883, for improvement of B street.

Intersection of Fourteenth, Eighteenth, B and Alder streets, purchased Nov. 3, 1883, for improvement of B street.

Lots 7 and 8 in block 83, in Couch Addition, purchased Nov. 3, 1883, for improvement of D street.

Lots 1, 2, 3 and 4 in block 84, Couch Addition, purchased Nov. 3, 1883, for improvement of D street.

Lot 7 in block 75, Couch Addition, purchased Nov. 3, 1883, for improvement of H street.

The undivided third of the west half of lot 2 in block 36, Couch Addition, purchased Dec. 19, 1883, for improvement of F street.

Lot 6 in block 8, Watson's Addition purchased Jan. 16, 1884, for improvement of S street.

A tract being the east 100 feet of the north 30 feet of block S $\frac{1}{2}$ A, purchased March 26, 1884, for improvement of Tenth street.

Lot 2 in N $\frac{1}{2}$ K, city proper, purchased Feb. 6, 1884, for improvement of Eleventh street.

Lots 1, 4, 5 and 8 in block 149, Couch Addition, purchased May 14, 1884, for improvement of North Fifteenth street.

A tract of land bounded and described as follows: On the south by the north line of block No. 103, in Caruther's Addition to the City of Portland; on the east by the west line of Hood street; on the north by a line parallel with, and 100 feet north of the north line of said block No. 103; and on the west by a line parallel with, and 100 feet west of the west line of Hood street; purchased May 14, 1884, for extension of Hood street.

A tract of land bounded and described as follows: On the south by the north line of block No. 102, in Caruther's Addition to the City of Portland, on the west by the east line of Hood street; on the north by a line parallel with, and 100 feet north of the north line of said block No. 102, and on the east by a line parallel with, and 100 feet east of the east line of Hood street; purchased May 14, 1884, for extension of Hood street.

Lot 3 in block 127, purchased May 14, 1884, for improvement of First street.

Lot 5 in block C, purchased June 18, 1884, for improvement of Front and South Front streets.

Lots 4 and 5 in block No. 88, city proper, purchased Dec. 4, 1884, for improvement of Stark street.

Lots 1, 2 and 3 in block No. 88, purchased Dec. 4, 1884 for improvement of Stark street.

A tract of land bounded and described as follows: Bounded on the north by the south line of block P; on the south by the north line of a tract of land known as the City Tract; on the west by the east line of Hood street; and on the east by a line 100 feet east of the east line of Hood street.

The north 46 feet of Lot 1, block A, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Lot 1, block 75, purchased Feb. 5, 1885, for sewer in G street.

Lots 5, 6, 7 and 8, block 45, Caruther's Addition, purchased Feb. 5, 1885, for extension of South Front street.

Lot 8, block 142, City, purchased Feb. 5, 1885, for improvement of Montgomery street.

Lots 1, 2 and 8, block 35, Caruther's Addition, purchased Feb. 5 1885, for improvement of Montgomery street.

Lots 1 and 2, block B, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Undivided $\frac{1}{2}$ of E, $\frac{1}{2}$ lot 4, block C, subdivision 25, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Undivided $\frac{1}{2}$ of W $\frac{1}{2}$ lot 3, block C, subdivision 25, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Undivided $\frac{1}{2}$ of E, $\frac{1}{2}$ lot 3, block C, subdivision 25, Carter's Addition, purchased Feb. 25, 1885, for improvement of Montgomery street.

Lots 1 and 4, block 149, Couch Addition, purchased Feb. 5, 1885, for improvement of B and Washington street.

Lot 3, block 8, Sherlock's Addition, purchased April 2, 1885, for extension of North Twenty-first street.

Lot 2, block 8, Sherlock's Addition, purchased April 2, 1885, for extension of North Twenty-first street.

N $\frac{1}{2}$ block 293, Couch Addition, purchased April 2, 1885, for extension of T street.

Lot 5, in block opposite block A, Caruther's Addition purchased April 2, 1885, for improvement of Hood street.

East 100 feet of lot 5, block C, subdivision 26, Carter's Addition, purchased June 11, 1885, for improvement of Montgomery street.

Lots 5 and 6, block 50, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lots 7 and 8, block 50, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front street.

Lot 9, block B, Caruther's Addition, purchased June 11, 1885, for improvement of Hood street.

E $\frac{1}{2}$ lot 4, S $\frac{1}{2}$ block I, City, purchased June 25, 1885, for improvement of Tenth street.

Lot 1, block 5, Market street addition, purchased July 9, 1885, for improvement of Montgomery street.

Lots 5 and 6, block 2, Carter's Addition, purchased July 9, 1885, for improvement of Fifteenth street.

E $\frac{1}{2}$ lot 5, block E, Caruther's Addition, purchased June 18, 1885, for improvement of Front and North Front streets.

DREDGING APPARATUS, ETC.

- 1 Steam Dredger with machinery, tackle and apparel complete.
- 1 Steam Tug, Louisa Vaughn, with tackle and apparel complete.
- 1 Wood Scow, (Sunk,)

INVENTORY OF CITY PROPERTY IN CITY OFFICES.

AUDITOR AND CLERK'S OFFICE.

- 1 business counter.
- 1 ice water tank and tumbler.
- 1 square ash table.
- 1 bidbox, padlock and key.
- 1 spittoon.
- 1 city seal.
- 2 punchers.
- 2 cane bottom chairs with cushions.
- 1 waste-basket.
- 1 Seth calendar clock.
- 1 plain table with top desk and two inkstands.
- 1 lithographic bird's eye view of City of Victoria, I. T. (framed).

- 1 map City of Portland 1872.
- 1 map City of Portland 1884.
- 2 maps City of Portland 1888.
- 2 maps County of Multnomah.
- 1 carpet and oilcloth, (worn.)
- 1 mirror.
- 1 three-jet gas chandelier.
- 1 high desk and ink-stand.
- 1 book case.
- 1 map case.
- AUDITOR'S OFFICE PROPER.
- 1 Tilton & McFarland safe (old).
- 1 large secretary with box compartments and drawers
- 1 copying press (damaged).
- 2 cane bottomed chairs, cush'd

1 step-ladder.
 1 high desk with glass inkstand.
 1 desk with cut glass inkstand.
 2 stools.
 1 pair shears.
 2 spittoons.
 1 carpet.
 1 three-jet chandelier.
 1 gas lamp.
 1 waste-basket.
 16 ft rubber tubing.
 2 rotary office chairs.
 1 small walnut table.
 1 letter scale.
 1 coal stove and fixtures.

MAYOR AND AUDITOR'S ROOM.

1 three-jet gas chandelier.
 1 large walnut desk.
 1 side case with pigeon holes and compartments.
 1 rotary cane-bottom chair (walnut.)
 1 easy chair.
 1 coal stove and fixtures.
 1 tapestry carpet.
 1 walnut hat and umbrella rack
 1 sofa.
 1 walnut upholstered easy chair
 1 black walnut center table.
 1 Remington Typewriter.

COMMITTEE ROOM.

1 committee table.
 6 committee chairs.
 3 ordinance books, codified '86
 1 coal stove and fixtures.
 1 three-jet gas chandelier.
 1 carpet.

1 spittoon.
 1 hat and umbrella rack.
 1 dressing closet.
 1 map City of Portland, 1882.
 1 sec'y with committee drawers

COUNCIL CHAMBER.

1 coal stove and fixtures.
 6 lobby benches cushioned.
 1 lobby railing.
 1 hat rack.
 1 tapestry carpet.
 4 three-jet gas chandeliers.
 9 Council chairs.
 1 Council table.
 1 clerk of Council table with two chairs.
 6 spittoons.
 1 sergeant-at-arms chair.
 1 large Hall's safe (new).
 1 marble top pitcher table with pitcher.
 1 drop light.
 1 Mayor's seat and table with gavel and Cushing's Rules of Order and Codified ordinances of 1886.
 1 canopy.
 1 picture of Washington and his Generals.
 1 reporter's table with gas light, 3 chairs, 3 spittoons, and umbrella rack.
 9 portfolio books.
 9 ink stands.
 9 Codified Ordinances of 1886
 83 record books.
 3 ballot boxes.
 3 black walnut cane seated chairs.

FOURTH QUARTERLY REPORT

—OF—

H. W. MONNASTES, CITY TREASURER,

—FOR—

Quarter Ending December 31, 1889.

The balance in the Treasury as per my report Sept. 30, 1889	\$ 73,971 70	
There has been received since from all sources	149,549 42	
There has been disbursed the sum of		\$135,714 06
Leaving a balance in the Treasury of		87,807 06
	\$223,521 12	\$223,521 12

INTEREST ON CITY BONDS.

Transferred from Gen'l Fund	\$ 2,882 50	
Coupons paid and returned	\$ 2,882 50	
	\$ 2,882 50	\$ 2,882 50

INTEREST FUNDS. (Streets.)

Amount collected to date	\$ 152 29
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GENERAL FUND.

Balance as per last report	\$ 18,793 60
W. King, by B. Latz, del. tax 1888	10 00
C. H. Knapp, del. tax 1886, 8.50; 1889, 10.00; costs, .60	19 10
P. Eddy, del. tax 1887	14 00

Amount carried forward, \$18,836 70

<i>Amount brought forward,</i>	18,836 70	
Elizabeth Karregan, del. tax 1883	90	
M. L. Myrick, del. tax 1887	25 00	
S. Humphrey " 1887	5 00	
E. A. Raymond " 1889	3 10	
W. Kramer " 1885	1 80	
A. M. Neunert, del. tax 1885-86-87-88	28 12	
Unknown owner, del. tax 1865	22 67	
A. Catlin, del. tax 1864	1 77	
H. E. Mitchell, del. tax 1889 and costs	5 10	
A. H. Tanner, P. Judge, fines and costs, Police Court	3,642 00	
S. B. Parrish, Ch'f Police, costs J St. sewer	7 20	
S. B. Parrish, Ch'f Police, costs S. Front St. sewer	8 40	
Dog Licenses	511 50	
General Licenses	28,616 53	
T. E. Taylor, Pound Fees	17 50	
W. Myers, Pound Fees and Sales	100 50	
L. White, 1 lamp post	11 50	
C. J. McDougall, redemption	35 05	
L. Brooke, acct. Ex. S. Front St.	12 25	
Lucy A. Deady, acct. Ex. S. Front st	22 59	
W. S. Chapman, sale of lamp posts	8 00	
Smith & Kriesel, street lamp	3 50	
Transferred to Funds—		
Street Lamp	\$ 5,000 00	
Willamette River	2,200 00	
Johnson Creek Sewer	2,150 00	
Park	141 92	
Interest, City Bonds	2,882 50	
Street Cleaning	5,000 00	
Sewer, G, J and Tanner Creek	477 09	
City Hall	1,000 00	
Warrants paid and returned	20,354 28	
Balance on hand	12,720 89	
	<u>\$ 51,926 68</u>	<u>\$ 51,926 68</u>

FIRE DEPARTMENT FUND.

Balance as per last report		\$ 17,330 85
J. T. Ghieslin for purchase of Engine		
House property		40,750 00
M. Weidler Sec'y Fire Dep't, horses sold		150 00
M. Weidler, Exempt Certificate Fees		10 00
Warrants paid and returned	22,627 35	
Balance on hand	35,613 50	
	<u>\$ 58,240 85</u>	<u>\$ 58,240 85</u>

POLICE DEPARTMENT FUND.

Balance as per last report		\$ 19,821 34
Warrants paid and returned	\$ 12,804 56	
Balance on hand	7,016 78	
	<u>\$ 19,821 34</u>	<u>\$ 19,821 34</u>

WATER BONDS INTEREST FUND.

Received from City Water Committee	\$ 15,000 00
------------------------------------	--------------

STREET CLEANING AND SPRINKLING FUND.

Balance as per last report		\$ 4,920 28
Transferred from General Fund		5,000 00
Warrants paid and returned	\$ 8,528 00	
Balance on hand	1,392 28	
	<u>\$ 9,920 28</u>	<u>\$ 9,920 28</u>

STREET IMPROVEMENT FUND.

Balance as per last report		\$ 3,623 12
Received from sundry collections		15,059 80
Warrants paid and returned	\$ 12,929 51	
Balance on hand	5,753 41	
	<u>\$ 18,682 92</u>	<u>\$ 18,682 92</u>

SEWER FUND.

Balance as per last report	\$ 4,798 51	
Sundry transfers from Gen'l Fund	2,627 09	
Rec'd from sundry collections	44,202 47	
Warrants paid and returned	\$ 44,006 76	
Balance on hand	7,621 31	
	<u>\$ 51,628 07</u>	<u>\$ 51,628 07</u>

CITY HALL FUND.

Transferred from Gen'l Fund	\$ 1,000 00
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STREET EXTENSION FUND.

Balance as per last report	\$ 1,062 00	
Rec'd from sundry collections	1,115 00	
Warrants paid and returned	\$ 1,050 00	
Balance on hand	1,127 00	
	<u>\$ 2,177 00</u>	<u>\$ 2,177 00</u>

STREET LAMP FUND.

Balance as per last report	\$ 1,270 30	
Transferred from General Fund	5,000 00	
Warrants paid and returned	\$ 6,132 45	
Balance on hand	137 85	
	<u>\$ 6,270 30</u>	<u>\$ 6,270 30</u>

PARK FUND.

Balance as per last report	\$ 284 08	
Transferred from Gen'l Fund	141 92	
Warrants paid and returned	\$ 400 00	
Balance on hand	26 00	
	<u>\$ 426 00</u>	<u>\$ 426 00</u>

WILLAMETTE RIVER FUND.

Balance as per last report	\$ 2,044 40	
Transferred from Gen'l Fund	2,200 00	
Warrants paid and returned	\$ 3,998 65	
Balance on hand	245 75	
	<u>\$ 4,244 40</u>	<u>\$ 4,244 40</u>

SUMMARY OF BALANCES.

The Balance on hand as stated is . \$ 87,807 06

Credited to the several funds as follows:

Interest (streets)	\$ 152 29	
General	12,720 89	
Fire Department	35,613 50	
Police Department	7,016 78	
Water Bonds Interest	15,000 00	
Street Cleaning and Sprinkling	1,392 28	
Street Improvement	5,753 41	
Sewer	7,621 31	
City Hall	1,000 00	
Street Extension	1,127 00	
Street Lamp	137 85	
Park	26 00	
Willamette River	245 75	
	<u>\$ 87,807 06</u>	<u>\$ 87,807 06</u>

All of which is respectfully submitted.

H. W. MONNASTES,

City Treasurer.

SEWER FUND.

Balance in this fund as stated . . . \$ 7,621 31

Credited as follows:

K St.	\$ 931 10
Lincoln St.,	29 30
H St.,	111 15
I St.,	191 93
Hood St.,	9 54
Marquam Gulch	37 50
J St.,	21 25
S St.,	109 47
S. 1st St.,	4 05
C St.,	48 61
Johnson's Creek	1,917 07
L St.,	123 30
S. 2d St.,	309 87
O St.,	1,202 94
S. Water St.,	86 72
15th, Market and 14th Sts., . .	108 38
Westerly Ex. Tanner Cr. Sewer	2,318 48
B St.,	60 65
	<hr/>
	\$ 7,621 31 \$ 7,621 31

STREET EXTENSION FUND.

Balance in fund as stated \$ 1,127 00

W St.,	\$ 297 00
B St.,	5 00
N. 21st St.,	30 00
N. 22d St.,	5 00
Hood St.,	757 00
3d and N. 3d Sts.,	25 00
N. 1st St.,	8 00
	<hr/>
	\$ 1,127 00 \$ 1,127 00

STREET IMPROVEMENT FUND.

Balance in this fund as stated . . . \$ 5,753 41

Credited as follows:

N. 21st St.,	\$ 58 83
P St.,	5 70
Chapman St.,	35 05
S St.,	3 35
Ella St.,	43 30
N. 14th St.,	4,038 09
N St., 10th to 15th Sts., . . .	65 17
S. Front St.,	01
N. 10th St.,	373 50
Columbia St.,	45 69
N St., 10th to N. Front	8 00
Grover St.,	75 10
A St.,	25 62
S. Front St., Gaines to 1st Ave.	75 09
Porter St.,	38 59
Gaines St.,	1 80
E St.,	262 20
Hood St.,	14 64
Taylor St.,	1 41
Yamhill St.,	1 00
N. 18th St.,	27 67
B St.,	42 18
N. 16th St.,	21 04
8th St.,	490 38
	<hr/>
	\$ 5,753 41 \$ 5,753 41

REPORT OF SUPERINTENDENT OF STREETS.

OFFICE OF THE SUPT. OF STREETS,
PORTLAND, OR., January 2, 1890. }

To the Hon. the Common Council of the City of Portland:

GENTLEMEN:—I have the honor to submit for your consideration the annual report of the Superintendent of Streets for the year ending December 31st, 1889.

Owing to the lateness in the year when the amended City Charter went into effect, not as much street improvement was completed as would have been, had the Charter gone into effect at the beginning of the year, in which case the public improvements would have exceeded by far that of any previous year. On the other hand much incompleted work at this date is the result. However more street work has been estimated and let to Contractors during the past year than in any equal period heretofore.

The Common Council during the year just ended has enacted thirty-four ordinances for the improvement of streets and twenty-nine ordinances for the construction of sewers. The whole amount of street improvement accomplished since 1885 may be summarily designated in feet as follows:

	UNDER ORDINANCES.			
	In 1889.	In 1888.	In 1887.	In 1886.
Sidewalks . . .	8,403.5 . .	26,006.7 . .	11,295 . .	8,237
Crosswalks . . .	3,250.0 . .	7,732.0 . .	4,143 . .	2,396
Macadam . . .	9,739.0 . .	11,221.1 . .	9,660 . .	5,840
Bridging . . .	887.0 . .	1,477.5 . .	2,231 . .	1,624
Grading . . .	20,130.0 . .	16,660.0 . .	13,670 . .	3,185
Sewers . . .	45,528.0 . .	16,935.0 . .	16,956 . .	12,730

UNDER PERMITS.

	1889.	1888.	1887.	1886.
Sidewalks . .	56,244.0 . .	25,757 . .	23,102 . .	8,237
Crosswalks . .	169.0 . .	974 . .	630 . .	1,491
Macadam . .	335.4 . .	4,056 . .	1,280 . .	3,560
Bridging	240 . .	630 . .	
Grading	8,220 . .	8,940 . .	7,314
Plank Road'ays	100.0 . .	2,054 . .	230 . .	5,409
Bituminous rock paving . . .		200		
Stone block paving	100.0			
Gravel paving .	3,238.0			

AGGREGATE.

	1889.	1888.	1887	1886.
Sidewalks . .	97,916.5 . .	51,763.7 . .	53,393 . .	46,100
Crosswalks . .	11,757.0 . .	8,706.0 . .	11,087 . .	7,215
Macadam . .	10,074.4 . .	15,278.1 . .	10,940 . .	9,400
Bridging . . .	887.0 . .	1,477.5 . .	2,861 . .	1,624
Grading . . .		24,880.0 . .	22,610 . .	10,499
Sewers	45,528.0 . .	16,935.0 . .	16,956 . .	12,739
Bituminous rock pavement . .		200.0		
Stone block pavement . . .	100.0			
Gravel	3,238.0			

PERMITS AND NOTICES

Which are required to be issued by various ordinances have been issued to a greater number, except the refilling of holes, than for any year, heretofore. I have pushed the work of serving notices with great energy both before and after the amended City Charter went into effect and I am pleased to say that with the exception of a few cases, the notices issued under the late amendment have all been complied with and the consequence is

that 6.3 miles of sidewalk and 1.6 miles of crosswalk were laid. The following shows the number of permits issued and the results for each year since 1884.

PERMITS ISSUED.

	1889.	1888.	1887.	1886.	1885.
To dig street for Gas	66 .	35 .	49 .	28 .	26
To dig street for sewer	499 .	261 .	153 .	173 .	102
To dig street for water	451 .	259 .	211 .	190 .	154
To use st. for moving buildings	60 .	35 .	23 .	20 .	7
To use street for buil'g purposes	572 .	299 .	256 .	120 .	122
To improve st. by grading, etc.	609 .	245 .	278 .	200 .	233

NOTICES ISSUED.

	1889.	1888.	1887.	1886.	1885.
To refill holes in street	18 .	78 .	49		
Repair sidewalks and cros'alks	2,426 .	956 .	1,212 .	893 .	405

WORK DONE UNDER NOTICES.

	1889.	1888.	1887.	1886	1885.
Sidewalk	33,269 .	10,645 .	19,465 .	10,476 .	6,746
Crosswalk	8,338 .	5,261 .	5,845 .	3,328 .	

OF SEWERS.

The year just past has been a vigorous one for the building of them. Twenty pipe and three brick sewers were begun and completed, besides six pipe sewers started in 1888 were completed during the past year aggregating a cost of \$149,407.23. The brick sewers embrace the Johnson Creek sewer with a vertical diameter of 60, 66 and 72 inches with eight inch egg-shaped walls and begins near the northeast corner of the City Park and empties into the river near the O. R. and N. Co.'s bone yard, a distance of over one and one-half miles and costing \$69,469.47. The Tanner Creek extension with eight inch egg-shaped walls of

54 inches and 81 inches in diameter extending from near the south side of Washington and Lowndale streets to a point in the low ground west of 14th and Taylor streets a distance of .3 miles and costing \$22,647.60 and the 15th, 14th and Market street sewer with eight inch egg-shaped walls with a vertical diameter of 45 and 36 inches extending from the north side of Jefferson street to a point 100 feet south of Mill street a distance of .25 miles and costing \$8,163.57. Besides the above six pipe sewers in all 6436 feet in length and costing about \$11,272.17 are now under construction and will not be completed before some time during the coming spring.

ELECTRIC LIGHTS

Now erected number 756 incandescent and 40 arc lights costing the city \$2,128 per month. At the beginning of the year there were 705 incandescent and twenty-nine arc lights costing the sum of \$2,182.00 per month, thus the number of incandescent have increased 51 and the arc 11. The cause of the cost per month not increasing in proportion to the number of lights erected is due to the fact that the price of lights were reduced. The city has for some time been paying \$10.00 per month for additional arc and \$2.05 per month for incandescent lights while at the beginning of the year the city paid \$15 per month for additional arc lights. The cost of lighting the city from Dec. 8, 1888 to Dec. 8, 1889 was \$25,090.43. As stated in my last annual report as a matter of economy, provisions ought to be made for turning off the street lights on clear moonlight nights, thus saving the city a considerable sum yearly. There are still many lights which have been ordered, some as far back as April 1888, which are not yet erected. I think much more light could be had from the arc lights if the globes now used were removed and replaced with clear ones, similar to the one at 3rd and Madison streets.

OLD OIL LAMPS

To the number of nine have been sold for \$3.50 apiece, aggregating \$31.50.

HOUSE MOVING

Is getting to be quite a nuisance, for during the past year numerous houses have destroyed and injured many times their own value while being moved. Houses have been moved into the streets and allowed to remain there undisturbed for weeks to the inconvenience of the public. There should be some remedy for this evil. A house that is scarcely worth more than moving should be torn down and hauled away. If a house is large and valuable it should be divided to such an extent that no damage would be done by its removal through the streets.

STREET CAR TRACKS

Have been laid over more streets during the last twelve months than in any previous year. At the beginning of the year there were 17.45 miles of track and at this date there are 25.85 miles, an increase of 8.4 miles. The increase is divided between the Cable Railway Company which has laid 3.8 miles building their track from Front and Alder streets to Fifth street, thence to Jefferson, thence to Fifteenth and thence to Spring street.

The Transcontinental Street Railway Company which has laid .9 miles extending their track from 9th and Morrison streets to the Industrial Fair building, thence on Fourteenth street to Yamhill street, thence back to 9th street; The Metropolitan Street Railway which has laid 3.3 miles building their track from "G" street up Second street to Grant street, thence to South Front street, thence to Gibbs street, thence to Corbett street, thence to the city limits, except one block of track which was laid the previous year; and the St. John's Motor line, which has built .4 miles extending their track from Third and "G" streets to the center of the Willamette river on the R. R. bridge

STREET CLEANING

Has been well carried on considering the number of the force, but much more could be accomplished if the habit of throwing trash into the streets could be stopped. Any day, wagons can be seen loaded up so full of earth that they spill it along the

streets on the way to the dumping ground. Scavengers at all hours of the day go scattering their swill from one end of the city to the other. When the street cleaning force have cleaned one of the main streets hardly will they be out of sight until the street will look as if it had not been cleaned for several days. A great many business houses don't pretend to do otherwise than to sweep their trash into the streets in front of their premises. If this cannot be otherwise checked barrels should be provided and people compelled to throw their refuse into them and then they should be carted away by the city. People who have wood sawed in the streets should be required to immediately remove the sawdust left thereby. If all these little follies were checked the streets would not need to be cleaned so often as now and would present a better appearance. The cost of the Street Cleaning and Sprinkling Department for the year was \$33,310.66.

PLANS AND SPECIFICATIONS

Have been prepared during the past year to such an extent that it was impossible at times for one man to give his attention to the draughting room and post the books and issue permits, etc., at the same time, and consequently as the work was piling up rapidly I was obliged to ask for an assistant draughtsman for a short time.

OBSTRUCTIONS TO STREETS

Are very numerous. In fact scarcely can one go in any direction or any part of the city but what he will find this to be the case. Many business houses have enough goods "stored" on the sidewalks to fill a small ware-house and so much so in some places that there is scarcely enough room for two persons to pass each other, while in other places one might suppose from the looks of things that he had entered a wagon junk shop, wood or lumber yard, instead of a public highway. Again many obstructions in the shape of barber poles, signs, etc., have been erected during the past year without permission from the Council.

ELECTRIC AND OTHER WIRES

Strung along over the streets are getting to be very numerous

and steps should be taken to devise some system for protecting the public from accidental contact with them.

THE PARK BLOCKS

Have had the sidewalks all around them repaired and renewed, outside of this, little attention has been paid them.

THE CITY PARK AND PUBLIC GROUNDS

Have had \$4,009.42 expended for material and labor, besides \$1,041.92 the Park-keeper's salary. The animals in the Park now consist of one black bear, one grizzly bear, one cinnamon bear, one Alaska brown bear, one mountain lion, two grey owls, two white owls, two cougars, two seals and five deer.

Hereto attached is a list of the property in my care and belonging to the city of Portland.

All of which is most respectfully submitted.

W. S. CHAPMAN,
Superintendent of Streets.

INVENTORY.

PROPERTY IN CHARGE OF SUPERINTENDENT OF STREETS.

- 1 Office table.
- 1 Table.
- 2 Revolving chairs.
- 3 Upholstered chairs.
- 2 Gas chandeliers.
- 1 Gas drop light stand.
- 2 Stoves (one bad order.)
- 1 Desk plain.
- 1 Draughting board and trusses.
- 2 Small Draughting boards.
- 2 Cane seat arm chairs.
- 1 Umbrella stand.
- 8 Spittoons.
- 5 Ink stands.
- 1 Cabinet for maps.
- 1 City map (tracing unfinished.)
- 1 Straight edge.
- 1 Parallel ruler.
- 2 Sewer records.
- 1 Letter file.
- 1 City directory.
- 1 Gas permit book.
- 1 Order book.
- 2 Notice books (trim trees).
- 1 Grading permit book.
- 1/2 Roll profile paper.
- 2 Index books to cabinet.
- 37 Pasteboard boxes for specifications, etc.
- 1 Table shelf.
- 1 Box rubber type.
- 1 Copying hook, etc.
- 1 Eyelet punch.
- 1 Engineering book (Trautwine)
- 2 Iron paper weights.
- 2 Glass paper weights.
- 1 Pair scissors.
- 1 Small flat rule.
- 1 Small T square.
- 2 Steel erasers.
- 10 Small paper files.
- 3 Waste baskets.
- 1 Blue printing frame.
- 1 Ink slab. (slate).
- 1/2 Dozen scrolls (wood.)
- 301 Maps, plans, etc.
- 1 Large triangle (rubber).
- 1 Electric light book.
- 2 Scrap books.
- 4 Water permit books.
- 2 Sewer permit books.
- 1 Requisition book.
- 13 Sidewalk notice books.
- 2 Building permit books.
- 1 Plumbers record book.
- 1/2 Roll blue print paper.
- 1 Register book.
- 1 Set draughting instruments.
- 3 Mucilage wells.
- 4 Notice books (refill holes.)
- 8 Sidewalk notice books (N. G.)
- 1 Record book of sidewalks and crosswalks.
- 1 Small gate.
- 1 Lobby railing and gate.
- 1 Ice tank.
- 1 Carpet.
- 1 Oil cloth carpet.
- 1 Map of City Portland, 1873.
- 1 Feather duster.
- 2 Scales triangle.
- 2 Coal scuttles and tongs, etc.
- 1 Patent rubber stamp.
- 1/2 Roll tracing cloth.
- 1 Ink well.

TOOLS IN CHARGE OF STREET REPAIRER.

- 1 Cross-cut saw.
- 2 Hand-saws.
- 1 Pruning saw.
- 1 Axe.
- 1 Hatchet.
- 1 Spiking hammer.
- 1 Stone hammer.
- 1 Paving hammer.
- 1 3/4 Inch auger.
- 1/2 Inch auger.
- 2 Crowbars.
- 4 Shovels.
- 1 Adze.
- 1 Spade.
- 1 Hoe.
- 2 Picks.
- 2 Pair gum boots.
- 1 Saw-set.
- 1 Grind stone.
- 1 Iron square.
- 1 Saw clam.
- 1 Pike pole.
- 1 Hook.
- 1 Wagon jack.
- 75 Feet rope.
- 150 Inch Rubber hose.
- 1/4 Keg 7 inch hose.
- 1/4 Keg 30d nails.
- 1 Horse.
- 1 Wagon.
- 1 Set harness.
- 1 Sewer drag.

INVENTORY OF CITY PROPERTY

IN USE BY THE

STREET CLEANING AND SPRINKLING DEPARTMENT.

26 Horses.	4 Water kegs.
11 Street sprinkling wagons.	31 Horse collars.
15 Dump carts.	1 Block and tackle.
15 Sets single harness.	1 Clock.
12 Sets double harness.	1 Iron jack screw.
1 Wheel barrow.	2 Wooden jacks.
2 Office stoves.	2 Pitchforks.
1 Length garden hose.	1 Grindstone.
25 Shovels.	8 Chairs.
35 Street brooms.	1 Set bed room furniture.
30 Hoes.	1 Table.
15 Housings.	2 Scoop shovels.
10 Buckets.	25 Halters.
1 Step ladder.	25 Sirsingles.
2 Picks.	2 Rakes.
2 Spades.	15 Saddle blankets.
6 Spanners.	2 Curry combs.
	4 Dandy brushes.

CITY SURVEYOR'S REPORT.

CITY SURVEYOR'S OFFICE, }
 PORTLAND, OR., January 2nd, 1890. }

To the Hon. the Mayor and Common Council of the City of Portland:

GENTLEMEN:—I have the honor to submit for your consideration the annual report of the City Surveyor for the year ending December 31st, A. D. 1889, containing tabulated statements of the street and sewer work, and an exhibit of the Street Extension Surveys, ordered by your Hon. Body during the past year.

STREET EXTENSIONS.

Twenty-three surveys for the opening, laying out or extension of streets, have been made by your order, and reports and plats of the same have been duly filed with the Auditor and Clerk as required by law.

The aggregate of land contained in the above surveys is nearly forty acres, the location and extent of which are more particularly set forth in the appended Table of Street Extension Surveys.

Estimates have been made for street improvements under thirty-five different ordinances, nearly all of which are finished and accepted or under contract.

All unfinished work contracted for during the year 1888 has been completed and accepted.

Five hundred and eighty-two permits for the improvement of streets by private parties were issued by the Superintendent of Streets and filed in this office during the past year under authority of which a large amount of work has been done as shown by the appended statement.

The amount of street work estimated and contracted for during the year 1889, is unusually large and proportionally the work finished and accepted is small, a fact due to certain amendments to the City Charter made by the last Legislative Assembly of the State; said amendments had the effect of largely increasing the number of petitions for street improvements, but did not go into effect until the latter part of May, consequently ordinances in pursuance of said petitions were not passed until late in the season and but a small portion of the work thus contracted for, has been completed.

Accompanying and forming a part of this report are tables more particularly setting forth the names and extent of streets upon which estimates were made and the amounts of the different kinds of work to be done in improving the same; also the amounts of street work done under Ordinances, Permits and otherwise.

Estimates have been made during the year for twenty-six street sewers of terra cotta or cement pipe and three of brick the most important of which is the Johnson Creek sewer now practically completed.

The completion of the main sewer of the Fourteenth and Market street system will soon render the further extension of the Tanner Creek sewer an imperative necessity; the importance of such an extension is evident to the most indifferent observer.

Twenty of the pipe sewers and two of the brick have been completed and accepted.

I have the honor to remain,

Your most obedient servant,

E. W. PAGET,
City Surveyor.

INVENTORY OF PROPERTY

—IN—

CITY SURVEYOR'S OFFICE.

ROOM 5.

5 Chairs (old).
1 Oil cloth (old).
1 Double gas fixture.
1 Stove and fixtures, (old).
1 Table, (old).
1 Brush.
1 Ruling pen.
1 China cuspidor.
1 Y level.
1 Dumpey level.
2 Transits.
1 Cover for Transit.
1 Pick.
1 Cover for level.
1 Shovel.
1 Crowbar.
2 Axes.
3 Wooden flags.
1 Iron flag.
1 Iron match safe.
1 Mirror.
1 Arm Rest.
1 Small wooden scale.
1 Map of City, (old).
1 Gas lamp and hose.
2 Transit boxes.
1 Level box.
Paper, pens, ink, etc.

ROOM 6.

5 Pairs dividers complete.
1 Set beam compasses complete.
1 Set beam compasses not complete.
1 Circle pen.
1 Road pen.
4 Line pens complete.
3 Line pens broken.
3 Rubber erasers.
2 Metal erasers.
6 Brushes.
1 Scale, 12 inch.
1 Long straight edge & 2 small ones.
1 Large T square.
1 Small T square, broken.
1 Horn protractor.
1 Ivory protractor.
1 Slate ink slab.
1 Iron paper weight.
1 Water cooler, (old).

5 Draughting boards.
1 Parallel rule.
1 12 inch rule.
1 Small triangle.
1 Stick India ink.
6 Dishes color.
4 Dishes for making color.
6 Paper of tacks.
1 Pr. trestles support for draughting board.
1 Iron match safe.
1 Pigeon hole.
1 Map index.
1 Profile.
Maps and profiles
Record books and index.
1 Order book.
Brass tacks.
2 Light chains.
1 Heavy chain.
1 Wooden chair, (old).
Oil cloth, (old).
1 Double arm gas fixtures.
Plumbats.
2 Rods.
Cross section and note books,
paper, ink, pencils and pens.
1 Gas lamp.
1 Paper file.

ROOM 7.

1 Coal stove and fixtures.
1 Waste basket.
2 Haswell, (engineering book).
4 Chairs.
1 Carpet.
2 Maps of city.
1 Secretary safe.
1 Plain desk.
1 China cuspidor.
1 County map.
Draughting paper.
Tracing cloth.
1 Grade book.
Paper, pens, pencils, ink, mucilage, etc.
1 Punch.
2 Boxes Eyelets.
Certificate books.

STREET EXTENSION SURVEYS IN 1889.

NAME OF STREET.	WHEN SURVEYED.	EXTENT OF SURVEY.	AREA IN SQ. FEET.
1 Salmon	Dec. 29, '88	From the west line of 12th to the east line of King	122317
2 Harrison	Dec. 29, '88	" " west line of 10th to the east line of 11th	19000
3 Mill	Jan. 15	" " west line of 13th to the east line of 15th	27600
4 N. 23d	Feb. 16	" " north line of J to the south line of Goldsmith's Addition	28440
5 N. 23d	Feb. 16	" " north line of J to the south line of Goldsmith's Addition	29520
6 Prop. St. of Cornell's	March 2	" " north line of B to the north line of J	125160
7 Hood	March 19	" " its present southern terminus to the south line of 3d Avenue in Portland Homestead	52508.4
8 14th	June 15	" " the north line of Jefferson to the south line of the W. W. and M. F. Chapman D. L. C.	53220
9 Prop. St. of Cornell's	June 15	" " north line of B to the north line of J	125160
10 Gibbs	June 24	" " its present eastern terminus in Portland City Homestead Addition to Hooker at S. 4th	230125
11 Heights Terrace	July 6	" " the west line of Lowrsdale to 13th, 37 ft. north of the north line of College	26983
12 Mill	June 29	" " west line of 13th to the east line of 15th	27600
13 S. 4th	Aug. 3	" " south line of Hooker to the north line of Woods	9274
14 Gibbs	Aug. 5	" " west line of 9th in Portland City Homestead Addition to the north line of Woods at 4th	122003
15 W. Main	Aug. 20	" " west line of N. 11th to the south line of B	12387
16 D	Sept. 3	" " its present western terminus to the east line of King	7605
17 S. 6th	Sept. 17	" " the west line of N. 20th to the east line of N. 21st	27600
18 S. East Park	Oct. 15	" " south line of Block No. 26 to 270 ft. south of the south line of Sheridan	18230
19 U	Nov. 4	" " present southern terminus of East Park to the south line of Lincoln	14663
20 N. 24th	Dec. 8	" " west line of N. 24th (extended) to the west line of N. 27th (extended)	90000
21 W	Dec. 8	" " north line of T to the center line of St. Helen's County Road	84524
22 V	Dec. 5	" " west line of N. 21st to the west line of N. 27th in Goldsmith's Addition	181324
	Dec. 5	" " its present western terminus to the west line of N. 27th	177540
Total,			1631213.4

STREET WORK DONE IN 1889.

NAME OF STREET.	EXTENT OF IMPROVEMENT.	DATE OF ESTIMATE.	No. of Ordinance.	CUBIC YARDS.		LINEAL FEET.							Cubic Yards Macadam.	Cubic Yards Gravel.		
				Excavation.	Embankment.	SIDEWALK.				CROSS-WALKS.						
						1/2 foot.	6 foot.	6 foot Relay.	New Curb.	New.	Relay.	Cover Plank for 1/2-Bridge.			New Joists.	
1 E	West line of N. 3d to the east line of N. 23d															
2 Gaines	West line of Kelly to the center line of Corbett	April 26	5750	3072	1432	112	5313.5	12	300	1571	450		5846.9			
3 Ella	North line of B to the south line of E	June 14	5774	1460			400			36	36		223.0			
4 N. 14th	Center line of B to the center line of U	Aug. 2	2798	282	31		424						563.8			
5 N	West line of N. 15th to the east line of N. 10th	Aug. 16	5834	647	79		832		1650	647	18		1339.5			
6 Grover	Center line of Hood to the center line of Multnomah	Aug. 16	5835								370					
7 5th	North line of Salmon to the north line of Hall	Aug. 16	5849	235	2					144			276.0			
8 N. 10th	From M to Q	Aug. 16	5850	524	516		472			675	18		1490.0			
9 Porter	West line of S. 1st to the east line of S. 2d	Aug. 30	5860									1404	160			
10 G	East line of N. 20th to the east line of N. 21st	Aug. 29	5873	41			426									
11 R	West line of N. 18th to the center line of N. Front	Sept. 13	5889	251	18		24		310	132				418.8		
		Sept. 26	5871	319	281		400			46						
Total,				3831	2359		112	8291.5	12	2260	3250	522	1774	160	9739.2	418.8

RECAPITULATION.

Work Done in 1899 Under	CUBIC YARDS.									LINEAL FEET.													NUMBER OF										LINEAL FEET.							
	Excavation.	Embankment.	Excavation and Refilling.	Loose Rock Excavation.	Broken Stone.	Concrete.	Lineal Feet Gravel.	Macadam.	Gravel.	SIDEWALK.						CROSSWALK.			GUTTER.				Stone Pavement.	Plank Road.	Frame Trestle Support.	½-Bridge.	Cover Plank for ½-Bridge.	Joists.	Macadam taken up and relaid	Manholes.	Lampholes.	Catchbasins.	S Traps.	Iron Grates.	Round corners dressed and laid	Connections.	Sewer Pipe Laid.	Brick Sewer Laid.	Number of Y Branches.	Feet Lumber, board measure.
										12 foot.	6 foot.	2 foot.	6 foot Relay.	Curb.	Cement.	New.	Relay.	2 foot.	Box.	Open.	Stone.	Box.																		
Estimates . .	30469	26207	41767	20	10	1247	10725.2	418.8	112	11786½	1912	512	2200	4464	538	216	552	5034	62	100	100	284	922	680	3957	160	9846	134	43	114	114	43	114	17	34918½	7994	3267	27500		
Permits . . .	72225	3568					3238	335.4		50088			530	169			450	584	62	100	100																	15000		
Unclassified .	25479	11981	10195				351.0			12195				4006																										
Grand Total	128273	41756	51962	20	10	1247	11411.6	653.8	112	74019½	1912	512	2790	8639	538	216	1602	5618	62	100	100	384	922	680	3957	160	9846	134	43	114	114	43	114	17	43478½	7994	3267	42500		

POLICE JUDGE'S REPORT.

OFFICE OF THE POLICE JUDGE, CITY OF PORTLAND, }
 PORTLAND, OR., December 31, 1889. }

To the Hon. Mayor and Common Council of the City of Portland:

GENTLEMEN:—Herewith I present my abstract of cases (City and State) disposed of in the Police Court of the City of Portland, Oregon, during the year A. D. 1889, with the fines and costs collected therein:

The following is a summary of the same :

FIRST QUARTER ending March 31, 1889.

No. of State cases	146
“ “ City “	515
	661
Total cases	661
Fines collected in State cases . . . \$	260 00
“ “ City “	1746 00
Costs “ State “	25 00
“ “ City “	00 00
	00 00
Total	\$2031 00

SECOND QUARTER, ending June 30, 1889.

No. State cases	133
“ City “	437
	570
Total	570
Fines collected in State cases . . . \$	491 00
“ “ City “	1882 00
Costs “ State “	12 50
“ “ City “	00 00
	00 00
Total	\$2385 50

THIRD QUARTER, ending September 30, 1889.

No. State cases	149
“ City “	828
Total	977
Fines collected in State cases	\$ 470 00
“ “ City “	3097 00
Costs “ State “	75 00
“ “ City “	00 00
Total	\$3642 00

FOURTH QUARTER, ending December 31, 1889.

No. State cases	194
“ City “	825
Total	1019
Fines collected in State cases	\$ 927 00
“ “ City “	4175 00
Costs “ State “	12 50
“ “ City “	00 00
Total	\$5114 50

RECAPITULATION.

Total for Quarter ending March 31, 1889.	\$ 2031 00
“ “ “ June 30, “	2385 50
“ “ “ Sept. 30, “	3642 00
“ “ “ Dec. 31, “	5114 50
Total for year ending Dec. 31, 1889	\$13,173.00

Very Respectfully,

A. H. TANNER,
Police Judge of the City of Portland.

POLICE COMMISSIONERS' REPORT.

PORTLAND, OREGON, December 31, 1889.

To the Hon. Mayor and Common Council of the City of Portland:

GENTLEMEN:—We respectfully present this our report of the expenses of the Police Department for the past year, in tabulated form. The amounts appropriated and expended for the various sources of expense, are as follows:

APPROPRIATIONS.	Estimated.	Expended.
Pay of Police	\$46,176 00	\$44,302 80
Police Clerk	1,080 00	1,080 00
Board of Prisoners	1,600 00	2,164 58
Expense of Police Building	3,000 00	2,413 54
Indigent Sick	750 00	436 50
Medical Attendance	200 00	114 10
Contingent Expenses	500 00	216 11
	\$53,306 00	\$50,727.63

We also submit our estimate of the cost of conducting the Police Department for the year 1890, as required by Sec. 73, of the City Charter, the same being as follows:

For pay of 1 Chief of Police	\$ 2,400 00
“ “ 4 Captains	4,800 00
“ “ 42 Regulars	45,360 00
“ “ 7 Specials	84 00
“ “ 1 Boys' and Girls' Officer	1,080 00
“ “ 1 Health Officer	1,080 00
“ “ 2 Guards	1,440 00

For pay of 1 License Collector	1,080 00
" " 1 Clerk	1,080 00
" 1 Patrol wagon and harness	500 00
" Board of Prisoners	2,500 00
" Expense of Police Building	2,500 00
" Hospital Indigent Sick	600 00
" Medical Attendance	200 00
" Contingent Expenses	500 00
Total	\$65,204 00

Accompanying this report we hand you as part thereof the report of S. B. Parrish, Chief of Police, showing in detail the condition and work of the Police Force during the past year.

We have the honor to remain yours respectfully,

JOS. SIMON,
B. P. CARDWELL,
GEO. P. FRANK,
Board of Police Commissioners.

ANNUAL REPORT

OF

S. B. PARRISH, CHIEF OF POLICE,

For the year ending Dec. 31st, 1889.

POLICE HEADQUARTERS, SECOND AND OAK STS, }
PORTLAND, OR. DEC. 31, 1889. }

To the Board of Police Commissioners:

GENTLEMEN:—I have the honor to submit herewith my report of the Police Department for the year ending Dec. 31, 1889:

The following pages give a resume of the work done by the Department during the year. The work steadily increases owing to the rapid growth of the city. The city limits have not been extended for several years, but the population has increased greatly. Following the course of the river, the boundaries of the city north and south are five miles apart; and from the river at the foot of Alder or Morrison street, a mile and a half. A careful estimate of the area of the city makes it seven square miles.

There are one hundred and forty-five miles of streets, and thirty-five and three-fourths miles of sewers.

You will notice that according to the number of miles of streets that each day patrolman has an average of 25 miles, and the night patrolman 7 11-100 miles to patrol.

For the protection of this area we have thirty-five men. By examining another page you will see that fully one-fourth of this number is constantly on special duty. Sickness often reduces it still further, and almost every day some are summoned as witnesses in the courts.

So the effective force is often less than twenty-five. That so few can cover so great an area augurs well for the orderly and quiet habits of the people as for the efficiency of the force.

Considering the great influx of population during the year it is a matter of congratulation that we have escaped small pox and other contagious diseases. The general health of the city has been good. In fact it has been a prosperous year.

To persons so well acquainted with the city as your Honorable Body, it seems scarcely worth while to offer recommendations, but with your permission I will offer the following :

1st. That the force be increased to sixty-five men. This I believe to be one of the imperative needs of the city. The following comparison will show the proportion of policemen employed to the population of some cities in this country.

San Francisco	one for every	864	of population.
New York	" "	529	" "
Brooklyn	" "	815	" "
Baltimore	" "	567	" "
Philadelphia	" "	606	" "
St Louis	" "	792	" "

Our population is now estimated to be 65,000. One patrolman to the thousand would give us sixty-five men. We would then have fewer in proportion than any of the cities mentioned.

2d. That signal boxes be established at convenient places throughout the city, in such number as your judgment may dictate, beginning with a few, and adding, as experience and the needs of the service may indicate.

3rd. That a Patrol wagon of approved pattern be procured at as early a date as possible. I am informed that most cities of our population are using them. You will readily understand the difficulty an officer encounters with a muscular and turbulent prisoner, a mile or more from the station. If he succeeds

in taking him there he will be absent from his beat from one to two hours, and be unfit for duty when he returns.

Accidents frequently happen on the streets when people need prompt attention. The wagon can be summoned and they be removed to hospital or home. Insane and drunken people can be taken to places of security without offending the public eye.

4th. There is a growing need for the services of a Matron. Many females are arrested from various causes during the year. It is necessary that they be searched for concealed weapons, valuables, etc. By order of the Court these persons are kept in jail from twenty to sixty days. There should be some competent female appointed to care for these unfortunates during their incarceration.

Other things might be mentioned which would increase the efficiency of the force. For instance, the matter of drill. This has heretofore been impossible from the fact that there has been no suitable hall to be had for the purpose. This will no doubt be supplied in the new City Hall. Fortunately, thus far in the history of our city no emergency has arisen requiring the services of the force in a body.

In the following pages will be found reports which will indicate to some extent the work performed by the Department.

The Chief is ex-officio Health Officer of the city. This work has been performed principally by Officer Martin, assisted by an occasional detail from the force. This consists mainly in compelling property owners to abate various nuisances, and to connect with adjacent sewers as directed by City Ordinance.

The following is

OFFICER MARTIN'S REPORT.

S. B. Parrish, Chief of Police and Health Officer :

Herewith please find statement of the work accomplished during the year ending Dec. 31, 1889, under the requirements of

Ordinance No. 4802. It began in Block No. 311 Couch Addition, and ended in Block No. 253 City proper. Whole number of connections made with sewers, 684, distributed as follows:

Couch	246
City proper	172
South Portland	118
Caruthers Addition	148
Total	648

About 90 per cent. of the work has been completed. A few are delayed on account of not being able to procure pipe. For the most part citizens comply with the requirements of the ordinance, but some persist in maintaining nuisances till convinced by arrest and fine that the ordinance must be obeyed. Out of 1260 complaints made during the year, very nearly one-half are utterly trivial, or of such a nature that no ordinance covers them. In such cases it is only by persuasion and patience that the nuisance can be abated. The city has grown to such dimensions that there ought to be three men to attend to the work of the Department properly.

Formerly dead animals were removed by the Pound Master. The control of that office having been taken from the Chief and vested in the Common Council, some one should be designated whose duty it shall be to look after such things. A place should be designated too, where reports can be made.

CITY JAIL.

The city jail building has long been known to be unfit for the needs of the city. It is neither safe nor healthy. No doubt the city does not intend that it shall be a comfortable lodging house, but, even criminals are entitled to fresh air and cleanliness. The main cell when occupied by thirty or forty men soon becomes

very unhealthy. We have refrained heretofore from complaining or asking for appropriations, except for absolutely necessary things, hoping that in the near future the city would put up a structure commensurate with its needs.

It is perhaps due to the members of the force to say, that as a body, it is willing and efficient, and has rendered good service to the city. They ought not to be required to accomplish the impossible. An officer with from eleven to twenty-five miles of street to guard will not see it all during one watch nor know of many things that transpire on his beat. Thieves and burglars do not usually attempt their deprivations when they know an officer is near.

This leads me to renew the appeal for an increase of the force to a number adequate to the needs of the city. We are no longer the slow going town of twenty years ago.

Steamers, ships and trains come and go at all hours of night and day. Almost every nationality is represented in our city. Burglars and thieves find our mild climate congenial to their nefarious schemes, and congregate here in considerable numbers during the winter months. Their arrival is facilitated by railroad and vessels. By brake beams or as stowaway, they get here, and it will be to the interest of the city to thwart their plans and cause them move on.

Editors and Immigration boards predict that 1890 will witness the largest immigration that Oregon has ever had. We must therefore prepare for not only present but future needs.

Thanking you gentlemen for your uniform kindness and for the assistance you have rendered me in the discharge of the arduous duties of my office, I remain,

Your obedient servant,

S. B. PARRISH,
Chief of Police, City of Portland.

DETECTIVE WORK.

It affords me pleasure to state that under the present management a great deal of effective work is being done. Property is almost daily being restored and often recovered before being missed by the owners. It is getting more and more difficult to steal and make way with property than formerly. We hope you will give the force such encouragement as shall make it still more efficient.

ON SPECIAL DUTY.

Chas. Gritzmacher	Capt. of Detectives
H. D. Griffin	Detective
James Barry	Detective
Joseph Day	Detective
H. C. Wood	Boys' and Girls' Aid Society
Felix Martin	Health Officer
Abe Tichner	License Officer
H. M. Hudson	Jailor
J. Rugg	Guard-Working Prisoners
G. Roberts	Guard-Working Prisoners

SALARIES.

Chief	per month	\$200 00
Captains		100 00
Patrolmen		90 00
Guard for prisoners at work		60 00
Clerk to Chief		90 00

Pay of the force during the year by months.

	Regular.	Special.
January	\$3,817.10	\$17.00
February	3,820.00	17.00
March	3,796.00	17.00
April	3,769.00	17.00
May	3,820.00	17.00

	Regular.	Specials.
June	3,820.00	17.00
July	3,718.35	17.00
August	3,775.90	17.00
September	3,730.00	16.00
October	3,680.00	16.00
November	3,855.00	16.00
December	3,952.00	16.00
	<u>\$45,453.35</u>	<u>\$200.00</u>

Monies collected in the Police Court during the year 1889 from fines, forfeitures, etc.

1st Quarter	\$2,031.00
2d "	2,385.50
3d "	3,642.00
4th "	5,114.50
	<u>\$13,173.00</u>

DELINQUENT TAXES COLLECTED.

The Delinquent City Tax Roll comes annually into the hands of the Chief of Police for collection according to Ordinance No. 2923. Delinquent sewer and street assessments are also placed in his hands for collection.

Delinquent city taxes collected	\$5,509.50
" Street and Sewer	9,248.18
Costs	269.53
Interest	33.48

Total \$15,060.69

No. of arrests and crimes for which arrested.

Drunk	1272
Disorderly	389
Drunk and disorderly	366
Roaming streets	137

Abusive language	69
Larceny	230
Vagrancy	102
Begging	75
Assault and battery	118
Trespass	154
Soliciting prostitution	41
Carrying concealed weapons	31
Assault with dangerous weapons	25
Selling liquor to minors	4
Selling cigarettes to minors	8
Threatened to commit felony	14
Obtaining money by false pretenses	16
In Route	12
Keeping disorderly conduct	4
Insane	20
Lewd cohabitation	7
Assault with intent to kill	3
Fast driving	15
Held as witness	18
Defacing a building	24
Robbery	3
Cruelty to animals	5
Arrested on telegram	2
Assault to kill	11
Attempt at burglary	5
Larceny by bailee	8
Keeping opium house	2
Smoking opium	6
Enticing females from parents	1
Malicious injury to property	2
Gambling	45
Incest	1
Indecent exposure	2
Sodomy	3

Adultery	4
Manslaughter	1
Rape	1
Posting bills on telegraph poles	1
Perjury	2
Mahem	3
Murder	5
Forgery	10
Kidnapping	1
Deserters	2
Arson	3
Disturbing regular meeting	8
Discharging firearms in the city limits	2
Receiving stolen goods	1
Contempt of court	2
Curfew order	3
Threat to kill	2
Attempt at robbery	1
Malicious prosecution	1
Assault	6
Peddling without license	14
Compounding a felony	1
Deserters U. S. Army	1
Total	3,349

ARRESTS BY MONTHS.

January	279	July	274
February	155	August	431
March	257	September	292
April	199	October	318
May	255	November	378
June	175	December	336
Total	3,349		

OFFICER TICHNER'S REPORT.

NAME.	Quarter Ending March 31.		Quarter Ending June 30.		Quarter Ending September 30.		Quarter Ending December 31.		Total for Year.
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount.	
Hacks	33	\$ 158 65	37	\$ 180 00	39	\$ 186 65	53	\$ 250 00	\$ 775 30
Trucks	50	280 00	59	293 33	82	378 40	73	365 00	1,376 79
Drays	43	129 00	49	143 00	53	159 00	59	177 00	608 00
Coupees	6	18 00	6	18 00	5	15 00	5	15 00	68 00
Busses	3	15 00	3	15 00	3	15 00	3	15 00	60 00
Single Express Wagons	89	254 00	89	258 00	101	273 00	107	300 00	1,095 00
Double "	47	226 67	40	200 00	42	197 65	43	210 00	834 32
Billiard and Pool Tables	18	90 00	15	75 00	13	85 00	17	80 00	330 00
Hotel Runners	13	126 65	16	156 65	13	130 00	13	123 33	536 63
Coal Oil	2	40 00	2	40 00	2	40 00	2	40 00	160 00
Wharfingers	3	150 00	3	150 00	3	150 00	3	150 00	600 00
Banks	7	175 00	7	175 00	7	175 00	7	175 00	700 00
Theaters	4	50 00	9	153 95	9	110 00	13	150 90	464 85
Gun Powder	10	50 00	10	50 00	10	50 00	10	50 00	200 00
Shooting Galleries	3	11 65	11	31 45	7	35 00	4	20 00	98 10
Auctioneers	7	240 00	8	290 00	6	213 32	8	253 34	996 66
Pawn Brokers	12	283 33	11	275 00	14	341 67	15	375 00	1,275 00
Second Hand Stores	26	127 95	27	135 00	28	135 00	26	125 00	522 65
Street Cars	3	268 75	3	306 25	3	306 25	3	343 75	1,225 00
Insurance Agents	36	216 60	34	212 50	35	218 75	37	229 16	877 01
Laudries	45	225 00	46	228 35	46	230 00	45	225 00	908 35
Liquors not drank on prem's	57	708 30	57	704 15	repl'	230 00	repl'	225 00	1,412 45
Peddlers and Hawkers	24	147 50	48	305 00	45	280 00	26	115 00	847 50
Vegetable Peddlers	55	75 78	55	136 65	54	133 70	40	100 00	446 13
Pea Nut Venders	10	96 65	14	120 00	19	150 55	23	193 25	500 45
Express Agents	3	75 00	3	75 00	3	75 00	3	75 00	300 00
Hack Drivers	48	48 00	24	22 50	16	16 00	8	8 00	94 50
Shows	none	-----	3	275 00	1	10 00	1	60 00	345 00
Beer	"	-----	none	-----	9	416 65	4	166 15	582 80
Liquors	195	14,400 00	203	15,025 00	233	22,833 33	236	24,066 60	76,324 89
									\$ 94,555 48

BOARD OF POLICE COMMISSIONERS.

JOSEPH SIMON, Chairman.

B. P. CARDWELL.

GEO. P. FRANK.

OFFICERS OF THE POLICE COURT.

A. H. TANNER Police Judge
 S. B. PARRISH Chief
 S. P. LEE Clerk to Chief

CAPTAINS.

C. GRITZMACHER, J. T. WATSON,
 R. H. CARDWELL, A. HOLMBERG.

PATROLMEN.

Austin, R. H.
 Adams, H.
 Barry, Jas.
 Branch, Ben.
 Bird, N. H.
 Blanchet, J. W.
 Coffin, S.
 Day, Joseph
 Emig, Chris.
 Foss, Geo. W.
 Gibson, H. T.
 Griffin, H. D.
 Hickey, Wm.
 Holsapple, C. W.
 Hudson, H. M.
 James, J. N.
 Johnson, A.
 Kerrigan, J. F.
 Martin, Felix

Miller, Sam
 Mott, J. A.
 Morgan, G. C.
 Putnam, A. M.
 Robinson, F. W.
 Roberts J. M.
 Ryan, Thos.
 Ruggs, John
 Snow, Frank
 Roberts, G.
 Thomas, W. J.
 Tichner, Abe
 Wood, H. C.
 Wing, Levi
 Warren, W. H.
 Whitehead, E. K.
 Young, S. S.
 Wilmer, H.

SPECIALS.

Brannon, A. B.
 Beach, W. W.
 Barton, S. C.
 Belcher, C. T.
 Beyers, J. H.
 Smith, O. H.
 Nash, J. H.
 Singleton, A. B.

Burnham, J.
 Crawford, T. H.
 Emken, Wm.
 Pratt, I. W.
 Prager, A.
 Scheel, G.
 Whitehouse, J. G.
 Wilson, S. C.

CITY JAIL AND POLICE STATION.

INVENTORY OF

PROPERTY BELONGING TO THE CITY JAN. 1, 1890

CHIEF'S ROOM.

1 Safe (Raymond & Wilshire).
 2 Writing desks.
 2 Tables.
 2 Cases for blanks.
 1 Hat rack.
 1 Mirror.
 4 Chairs.
 1 Heating stove.
 1 Lounge.
 1 Pair scissors.
 2 Inkstands.
 2 Pen racks
 1 Letter press.
 2 Paper weights.
 1 Ruler.
 1 Copy Laws of Or. 1845 to 1864.
 1 " " " 1885.
 1 " " " 1885, Special
 session.
 1 Spittoon (broken).
 1 Copy Laws of Portland, 1884.
 1 Copy Laws of Portland, 1886.
 1 Feather duster.
 1 Arm chair.
 1 Eraser.
 1 Letter clip

CLUB ROOM.

6 Chairs.
 2 Tables.
 1 Heating stove, (damaged).
 2 Spittoons.

JUDGE'S ROOM.

4 Inkstands.
 4 Pen racks.
 4 Chairs.
 2 Writing desks.
 2 Tables.
 1 Case and table.
 1 Hat rack.
 1 Lounge.
 1 Horse and Saddle.

Shovel and tongs.

COURT ROOM.

26 Chairs.
 7 Benches.
 1 Coal stove.
 1 Table (reporter's).
 1 Desk (Clerk's).
 1 Coal hod.
 4 Inkstands.

HALL.

1 Wood box.
 1 Bulletin board.

CAPTAIN'S OFFICE.

1 Safe.
 1 Writing desk.
 1 Inkstand.
 1 Case (for prisoner's effects).
 2 Chairs.
 1 Clock.

PRIVATE OFFICE.

1 Lounge.
 1 Stove.
 2 Desks.
 3 Chairs.
 1 Water cooler.
 2 Spittoons.
 1 Clock.
 1 Hill's code.
 1 Laws of Portland.
 2 Prs. muffs (for insane persons).

FRONT CELL.

2 Lounges, (old).
 1 Stand.
 2 Chairs.
 1 Straw mattress.
 1 Heating stove.

MAIN CELL.

1 Heating stove.
 BOYS' AND GIRLS' AID SOCIETY CELL.
 1 Heating stove.
 3 Straw mattresses.
 2 Pairs blankets.

1 Wagon.

ANNUAL REPORT

—OF—

THE WATER COMMITTEE
 OF PORTLAND, OREGON.

Income and Expenditures of the Operating Department
 during the year ending December 31st., 1889.

INCOME.

From—
 Miscellaneous water rents.....\$117,727 01
 Irrigation 5,848 60
 Elevators 13,392 85
 Municipal water rents..... 2,400 00
 City sprinkling..... 2,613 70
 Building purposes..... 4,688 45
 Sprinkling macadamized road 278 45
 Tapping mains 813 25
 Turning on water 304 00
 Rents 40 00
 Gross income..... \$148,106 31

EXPENDITURES.

Palatine pumping station\$30,689 44
 Less 205.56 cords of wood at \$3.05 ---- 626 96
 \$30,062 48
 High service pumping station 4,917 54
 Round house pumping station 982 80
 Less value coal on hand 875 00
 \$107 80
 Repairs to mains 1,201 83
 Loose property 4,679 05
 Less inventory of property on hand ---- 2,462 50
 2,216 55
 Meters 3,086 14
 Less inventory of value meters on hand 1,884 00
 \$1,202 14

Office furniture, 10 $\frac{3}{4}$ ct. of original cost	124 05
Books and stationery	334 40
General expense	6,793 23
Office expenses	5,287 15
Interest on bonds paid Treasurer	30,000 00
Total expenses	\$81,407 17
Net profits for the year 1889	\$ 66,699 14

Payments have been made to the Treasurer, in 1889, as follows:

April 3	\$20,000 00
June 13	15,000 00
August 5	20,000 00
October 4	20,000 00
December 28	15,000 00
December 31	6,376 16
	\$ 96,376 16

Being the interest charge for the year on \$600,000 outstanding bonds, and \$66,376.16 for use in construction.

Inventory has been made of all fuel, loose property and meters on hand, and entries have been made on the books in conformity therewith.

The following is an abstract from the ledger of the operating department, after closing the books:

DR.

Payments to Treasurer of Committee (exclusive of interest on bonds)	\$119,130 38
Roundhouse, pump station (coal on hand)	875 00
Palatine pumping station (wood on hand)	626 96
Office furniture (original cost, \$1,240.50)	921 86
Loose property, per inventory	2,462 50
Meters, per inventory	1,884 00
City of Portland	200 00
	\$126,100 70

CR.

Profit and loss	\$126,100 70
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A COMPARATIVE STATEMENT.

The following is a comparative statement of the gross income, operating expenses, interest charge, and net gain for the years 1887, 1888 and 1889:

	Gross Income.	Operating Expenses.	Interest Charge.	Net Gain.
1887	\$ 97,502 71	\$47,000 77	\$25,000 00	\$ 25,501 94
1888	113,692 06	54,792 44	25,000 00	33,899 62
1889	148,106 31	51,407 17	30,000 00	66,699 14
Net gains to date				\$126,100 70

Of the above amount, \$119,130 38 has been paid over for construction purposes, and the residue is in property in the hands of the operating department, as shown by inventory and balance sheet.

The number of gallons of water pumped per day was during—

	Average.	Maximum.	Average in August.
1886	3,920,000		4,670,000
1887	4,716,000	6,000,000	5,200,000
1888	5,900,000	8,579,000	6,730,000
1889	7,056,000	9,706,000	8,390,000

The conditions were favorable during the year for economical operation of the works. No freezing weather occurred, and the cost of repairs to mains, and extra watchmen and other labor was small.

MORE THAN REALIZED.

The estimate made in report of December, 1888, of the probable gross earnings of the works by the time the Bull Run system could be completed, has already been more than realized, and the revenue is now on a basis of nearly or quite \$160,000 per annum. At less than the ratio of increase for the two years past, the revenue for 1890 may be estimated at \$175,000. Over eighteen miles of distribution pipe were put in during 1889, and the total length of pipe including the force main is now 51

84-100 miles, as against 26 77-100, when the works were purchased. It is impossible to estimate with accuracy, the operating expenses for 1890, but the expense for fuel, engineers, firemen, inspectors, etc., must keep pace with the increase in revenue. It is probable, however, that the net income will be fully as much as in 1889, and possibly \$75,000. The estimated cost of the

NEW FORCE MAIN AND PUMP

Was about \$200,000. Prior to December 31st, \$40,000 had been paid on account of the main and foundations for the pump. At that date \$14,000 remained in the hands of the treasurer, and this, with the proceeds of bonds sold (\$54,500) and estimated net earnings for four months, to May 1st, (\$32,000), will meet the cost of the force main and pump foundations, estimated at \$140,000. The earnings for May and June will be needed to meet the semi-annual interest, due July 1. It will therefore be necessary to sell the remaining \$50,000, bonds authorized to be issued in order to meet the payment for pump costing about \$60,000.

BUILDING THE WAGON ROAD.

The committee will then have exhausted its authority as respects the contraction of obligations, and there will be nothing available for additions to or extensions of the works, save the net earnings during the last six months of the year, which may be estimated at \$35,000. A very much larger amount than this could be expended profitably and in the interest of the public in extending the mains, in building the projected reservoir, or building the necessary wagon road on the Bull Run pipe line. The construction of this road a season in advance of the construction of the pipe line would save time and money. It is important that during the present year a large main be laid through Front street, or that the 24-inch main just laid on First street as far north as Jefferson street be extended down First street and connected with the hydraulic main on Front street,

and the large main on Third street. The committee has not thought it wise to provide additional means for these improvements, by increase of rates, and we call the attention of the committee to that part of our report of December, 1888, referring to the "contribution by the city." In the event that the net earnings do not suffice during the year to make such additions and extensions as are absolutely necessary, we recommend that the charge to the city be so increased as to meet the outlay, thus providing from the general tax some contribution for fire protection and general convenience, rather than increase the rate for water for household use.

THE BULL RUN PIPE LINE.

The experience for the past year has, to a greater degree than ever, demonstrated the wisdom and absolute necessity of building the Bull Run pipe line as early as possible. The construction of the new force main, and the placing of the new pump, is but a temporary expedient, and all the reasons which have been hitherto urged in behalf of a gravity system, whether they relate to public health, convenience and ample supply or ultimate economy, can be pleaded with greater force than at any previous time.

We submit herewith the report of the Superintendent which report is accompanied by a statement of property expended during the year, and inventory and valuation of all property on hand, in charge of the operating department.

Respectfully submitted,

HENRY FAILING,

T. M. RICHARDSON,

Sub-Committee.

PORTLAND, OR., January 7, 1890.

SUPERINTENDENT SMITH'S REPORT

—TO—

THE WATER COMMITTEE,

For the year 1889.

OFFICE OF THE CITY WATER WORKS, }
 PORTLAND, OR., Jan. 7, 1890 }

The Sub-Committee on Water Works, City of Portland:—

GENTLEMEN:—I submit for your consideration the following report of work performed under my supervision, during the year 1889:

Construction contracts were awarded about the middle of August for the erection of a 10,000,000 gallon pump at the Palatine station, and for a 24-inch force main; (four and a half miles of wrought, and three-fourths of a mile of cast iron), the excavation and masonry for the foundations and suction pipe of the pump, and for the trench for the force main, to be made by and at the expense of the committee. The excavations, masonry, and tunnel, for the suction pipe have been completed, and the excavation for the pump room will be finished by the middle of this month. The masonry for the pump foundations will probably be ready about the middle of February, and the pump is to be put in place in working order by the 10th of May, by the contractors.

The whole of the cast iron, and one mile of the wrought iron force main, has been laid. The following table shows the pipes laid to January 1, 1889; during the year 1889, and to January 1, 1890:

MILES OF PIPE LAID.

Diameter.	To Jan. 1, 1889.	During year 1889.	Jan. 1, 1890.
30	4.15		4.15
24	0.57	1.57	2.14
20	0.27		0.27
18	0.22		0.22
16	0.97		0.97
14	1.18		1.18
12	2.82	0.03	2.85
10	2.82	2.91	5.73
8	0.57	1.29	1.86
6	11.47	6.53	18.00
4	8.28	6.00	14.28
3	0.19		0.19
Total . . .	33.51	18.33	51.84

This list includes all force and distribution mains except the old sheet iron pipes from Balch and Caruthers creeks, which are no longer used because they are laid across blocks and under buildings and cannot be kept in repair.

Of the total to January 1, 1890, 25.07 miles have been put in by the committee, and 26.77 miles by the Portland Water Company.

Elevators connected to Jan. 1, 1888	21
Elevators connected in 1888	11
Elevators connected in 1889	13
	—

Total to Jan. 1, 1890 45

Taps—estimated—to Jan. 1, 1888	5444
Taps put in during the year 1888	321
Taps put in during the year 1889	900
	—

Total to Jan. 1, 1890 5765

MAINTENANCE.

The reservoirs, pumps, and mains, have been maintained in repair at a moderate cost. The old roundhouse pumps and boilers are not in good condition, and are maintained for use in case of a break in the Palatine mains or an emergency from any other cause.

OPERATION.

Cost of pumping per annum and per million gallons at the Palatine station against a pressure equivalent to a lift of 200 feet:

	Per annum.	Per million gallons.
Repairs	\$ 390 11	\$0 15
Engineers and firemen	6,653 50	2 58
Wood, 6862 cords	21,882 23	*8 50
Oil, waste and stores	956 34	37
Total	\$29,882 18	\$11 60

At the high-service station, against a pressure equivalent to a lift of 100 feet:

	Per Annum.	Per million gallons
Repairs	\$ 360 47	\$ 2 03
Engineers and firemen	1,638 15	9 15
Wood, 493 cords	1,688 90	9 43
Oil, waste and stores	426 91	2 39
Total	\$4,114 43	\$23 00

At Palatine hill in 1888, 2,154,000,000 gallons cost \$31,880; in 1889, 2,754,000,000 gallons cost \$29,882.

At the high-service station in 1888, 92,000,000 gallons cost \$3,864; in 1889, 179,000,000 gallons cost \$4,114.

*2.61 cords of wood per million gallons.

NUMBER OF GALLONS PUMPED.

Year.	Per Annum.	PER DIEM.		
		During the Year.		August.
		Average.	Maximum.	Average.
1886	1,431,000,000	3,920,000	-----	4,670,000
1887	1,728,000,000	4,716,000	6,250,000	5,200,000
1888	2,153,000,000	5,900,000	8,579,000	6,730,000
1889	2,576,000,000	7,056,000	9,706,000	8,390,000

The maximum daily consumption (or waste) in 1889 is nearly equal to the maximum capacity of the pumps, and within the last week, on account of waste through open faucets during freezing weather, the rate of waste has exceeded 15,000,000 gallons a day, and it has been necessary to shut off the water from the city two or three times a day in order to accumulate water in the reservoirs for security against fires.

With the 10,000,000-gallon pump and force mains now under contract, the maximum capacity of the pumps and boilers will be 16,000,000 gallons a day. At the high-service pump station the average daily consumption has increased from 266,000 gallons during the first quarter to 620,000 gallons during the fourth quarter of the year, and during the past week the consumption has been much beyond the capacity of the million-and-a-half-gallon pump.

It is therefore evident that the consumption of water must be reduced by the use of meters or that the entire plant must be duplicated within two or three years.

Respectfully submitted,

ISAAC W. SMITH,
Superintendent.

REPORT
—OF—
THE WATER COMMITTEE
OF PORTLAND, OREGON,
Of Receipts and Expenditures from
June 30 to Dec. 31, 1889.

GENERAL ACCOUNT.

1889.			
June 30.	Cash in hands of Treasurer per report of this date		\$13,532 81
RECEIPTS.			
Aug. 1.	Cash from G. B. Markle for old boiler from High Service Pump Station.....	100 00	
Sept. 26.	Cash from I. F. Powers \$29.04, and Fire Commissioners \$115.05 for material for connection with mains.....	144 09	
Aug. 5.	Cash from Operating Department	20,000 00	
Oct. 4.	“ “ “ “	20,000 00	
Dec. 27.	“ “ “ “	15,000 00	
“ 31.	“ “ “ “	6,376 16	61,376 16
	Total.....		\$75,153 06

DISBURSEMENTS.

DISTRIBUTION SYSTEM.

Part of Voucher.			
No. 252	Water works office, amt. disbursed on account of extension street mains.....	\$ 2,085 23	
No. 263	Water works office, amt. disbursed on account of extension street mains.....	1,248 89	
No. 254	Water works office, amt. disbursed on account of extension street mains.....	391 25	
No. 255	Water works office, amt. disbursed on account of extension street mains.....	478 29	
No. 256	Pacific Metal works, 15.215 lbs, lead 4.80	730 32	
“ 261	Water works office, amt. disbursed on account of extension street mains.....	17 00	
			\$ 4,950 98

RIGHTS OF WAY AND RIPARIAN RIGHTS.

Part of Voucher.

No. 252	Water works office, amt. paid county recorder for recording deed.....	\$ 1 50
---------	---	---------

RESERVOIRS.

Part of Voucher.

Water works office, amt. disbursed on acct. reservoirs	\$ 14 00
--	----------

NEW PALATINE PUMP.

No. 254	Water works office, amt. disbursed on account New Palatine pump.....	\$ 117 37
No. 255	Water works office, amt. disbursed on account New Palatine pump.....	403 02
No. 257	S. R. Smith, rock excavation for foundation for Palatine pump.....	1,317 50
No. 259	W.J.J. Roberts, cement for foun'n of pump	76 40
No. 261	Water works office amt. disbursed on account foundation of Palatine pump ----	520 95
No. 264	S. R. Smith, rock excavation for pump	1,047 50
No. 269	Water works office, amt. disbursed on account excavation for Palatine pump ----	1,261 51
No. 271	Water works office, amt. disbursed on account excavation for foundation of pump	195 20
		\$ 4,939 45

GENERAL EXPENSE.

Part of Voucher

No. 260	F. W. Baltes, printing	\$ 6 25
No. 266	Estate P. C. Schuyler, deceased, four months service as clerk to Oct. 31st.....	200 00
		\$ 206 25

NEW PALATINE FORCE MAINS

Part of Voucher

No. 254	Water works office, amt. disbursed on account New Palatine force main.....	\$ 191 30
No. 258	The John Barrett Co. for 57 large Chapman water gates.....	2,089 00
No. 261	Water works office, amt. disbursed on account New Palatine force main.....	115 79
No. 262	Shickle, Harrison & Howard Iron Co. for cast iron pipe acct, contract.....	2,341 51
No. 263	Water works office, freight on same charged to acct. Shickle H. & H. I Co.	2,147 14

No. 265 Wolff & Zwicker for wrought pipe acct. contract	\$ 4,530 00	
No. 267 Shickle, Harrison & Howard Iron Co. for cast iron pipe completion of contract	8,015 36	
No. 268 Water works office, freight on same charged to acct. Shickle, H. & H. iron Co.	7,227 49	
No. 269 Water works office, amt. disbursed for labor acct. New Palatine force main	2,056 26	
No. 271 Water works office, amt. disbursed for labor acct. New Palatine force main	7,135 95	\$35,849 80

INTEREST ON BONDS.

Part of Voucher.

No. 270 H. W. Monnastes, City Treasurer amt. deposited for 6 mos. int. on \$600,000 to Dec. 31, 1889	\$ 15,000 00
Total	\$ 60,961 98

RECAPITULATION.

GENERAL ACCOUNT.

Receipts	\$75,153 06
----------------	-------------

DISBURSEMENTS.

Distributing system	\$ 4,950 98
Rights of way and Riparian rights	1 50
Reservoirs	14 00
New Palatine pump	4,939 45
General expense	206 25
New Palatine force main	35,849 80
Interest on bonds	15,000 00
	\$ 60,961 98
Balance in hands of the Treasurer	\$ 14,191 08

OPERATING ACCOUNT.

June 29, 1889. Cash on hand per report this date ..	\$ 8,073 38
---	-------------

RECEIPTS

From city for amount due June 30, '89	\$ 1,133 40
" Water rates, amt. carried and credited on books \$81,389 80, deduct amt. due from city, not collected, \$200 00	81,189 80
From tapping mains	453 00
" Turning on water	166 00
" Rent of dwelling house at 8th str. reservoir	25 00
	\$ 2,967 20
Total	\$ 91,040 58

DISBURSEMENTS.

PALATINE PUMPING STATION.

4,055.19 cords wood	\$12,682 27
Engineers and Firemen	3,675 00
Oil, wastes and supplies	490 86
Repairs and incidentals	460 53
	\$ 17,308 66

HIGH SERVICE PUMPING STATION.

318.50 cords of wood	\$ 1,052 77
Engineers and Firemen	992 30
Oils, wastes and supplies	250 29
Repairs	50 79
	\$ 2,346 15

ROUND HOUSE PUMPING STATION.

Repairs and Incidentals	\$ 107 80
-------------------------------	-----------

GENERAL EXPENSE.

Salary of Superintendent, 6 months	\$ 1,500 00
Pay of plumbers, laborers, etc	1,357 00
Keeping and care of 2 horses, repairs 2 wagons, etc. 7 months	313 85
Rent of telephones, 7 months	140 60
" lot for tools on Fourth & Columbia sts. 7 mos.	140 00
Books, stationery and printing	198 05
Incidentals	376 63
	\$ 4,026 13

REPAIRS TO MAINS

Labor and materials expended	\$ 1,028 41
------------------------------------	-------------

OFFICE FURNITURE.

Expended on this account ----- \$ 244 32

OFFICE EXPENSES.

Rent of office, 7 months at \$75.00 ----- \$ 525 00
 Salary of Accountant, Inspector, Clerk and Janitor.. 2,136 00
 Fuel, light and incidentals..... 61 75 \$ 2,722 75

LOOSE PROPERTY.

Paid for meter, repairs..... \$ 190 31
 " corporation taps..... 505 11
 " stop cock boxes..... 541 50
 " level and transit..... 318 84
 " insurance maps..... 76 75
 " miscellaneous items..... 247 69 \$ 1,880 20
 \$29,664 42

RECAPITULATION. (Operating Account).

Receipts..... \$91,040 58

DISBURSEMENTS.

Palatine pumping station..... \$17,308 66
 High service "..... 2,346 15
 Round house "..... 107 80
 General expense..... 4,026 13
 Repairs to mains..... 1,028 41
 Office furniture..... 244 32
 Office expense..... 2,722 75
 Loose property..... 1,880 20
 \$ 29,664 42

Amounts paid to Gen'l acct. Aug. 5th --- \$20,000 00
 Oct. 4th --- 20,000 00
 Dec. 28th --- 15,000 00
 Dec. 31st --- 6,376 16 \$ 61,376 16
 \$ 91,040 58 \$ 91,040 58

HENRY FAILING, *Chairman.*
 FRANK T. DODGE, *Clerk.*

PORTLAND, OR., Dec, 31, 1889.

GENERAL ACCOUNT.

GRAND RECAPITULATION.

Showing receipts and expenditures for the year 1889.

1888.

Dec. 31, Balance in hands of Treasurer per report this date --- \$ 1,005 24

RECEIPTS.

1889.

Jan. 18, Net proceeds of \$100,000 00 city bonds
 sold, viz:
 To Oregon Fire & Marine I. Co., \$10,000@1.07---\$ 10,700 00
 L. & I. White, Portland, 50,000@1.06 1/4 53,125 00
 Am. Fire Ins. Co., Phila., 40,000@1.05---
 and ac. interest..... 42,083 20 \$ 105,908 20
 From operating dept. see report June 30..... \$ 35,000 00
 " " " " herewith..... 61,376 16
 " G. B. Markle, for old boiler from high ser-
 vice pump station..... 100 00
 " I. F. Powers, \$29.04, fire commissions, 115-
 05 for material and labor connecting to
 mains..... 144 09 \$ 96,620 25
 Total to be accounted for..... \$203,533 69

DISBURSEMENTS.

DISTRIBUTING SYSTEM.

Amount in report June 30, 1889..... \$ 109,261 57
 " " herewith..... 4,950 98 \$ 114,212 55

RESERVOIRS.

Amount in report June 30, 1889..... \$ 565 76
 " " herewith..... 14 00 \$ 579 76

PUMPING APPARATUS.

Amount in report June 30, 1889..... \$ 1,237 60

GENERAL EXPENSE.

Amount in report June 30, 1889..... \$ 1,554 20
 " " herewith..... 206 25 \$ 1,760 45

RIGHTS OF WAY AND RIPARIAN RIGHTS.

Amount in report June 30, 1889.....	\$	335	50	
“ “ herewith		1	50	\$ 337 00

SURVEYS AND EXPLORATIONS.

Amount in report June 30, 1889.....	\$	426	00
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INTEREST ON BONDS.

Amount in report June 30, 1889.....	\$	15,000	00	
“ “ herewith		15,000	00	\$ 30,000 00

NEW PALATINE PUMP.

Amount in report herewith	\$	4,939	45
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NEW PALATINE FORCE MAIN.

Amount in report herewith	\$	35,849	80
---------------------------------	----	--------	----

\$189,342 61

Receipts as above	\$	203,533	69
Disbursements as above.....		189,342	61

Balance in hands of the Treasurer.....	\$	14,191	08
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GENERAL STATEMENT.

Amount expended on works, purchasing land, rights of way, riparian rights, etc., etc., as stated in re- port of Dec. 31, 1888.....	\$	593,554	22
Amount expended in 1889 as shown herein \$189,- 342 61, less for interest on bonds, \$30,000 00-		159,342	61
Cash on hand.....		14,191	08
Amount invested in entire plant	\$	767,087	91
Bonds of the city outstanding at 5 per cent. interest..		600,000	00

HENRY FAILING, *Chairman.*FRANK T. DODGE, *Clerk.*

PORTLAND, OREGON, December 31, 1889.

REPORTS OF OFFICERS
OF THE
PORTLAND PAID FIRE DEPARTMENT.

OF THE
CITY OF PORTLAND,

For the Year 1889.

REPORT
—OF THE—
BOARD OF FIRE COMMISSIONERS.
1889.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS, P. P. F. D.,
PORTLAND, December 31, 1889.

*To the Honorable the Mayor and Common Council of the City of
Portland:*

GENTLEMEN:—In accordance with the requirements of the law, creating the Portland Paid Fire Department, the Board of Fire Commissioners herewith present to your Honorable Body their seventh annual report, exhibiting the operations of the Department for the year ending December 31, 1889, with report of Chief Engineer and Superintendent of Fire Alarm Telegraph; also our estimates for the maintenance of the Department for the year 1890.

FINANCIAL.

RECEIVED FROM—

Taxes	\$ 59,723 76
Sale of No. One's Engine House	40,750 00
Transfers	6,500 00
Sale of 2 Horses	150 00
Exempt Certificates	10 00

Total \$107,133 76

EXPENDITURES.

The amount expended and claims audited by this Board for the year 1889, including deficiency of \$1984.20 for the year 1888, aggregates . . .	\$77,024 96
Leaving a balance on hand of	\$30,108 80

SUMMARY.

Salaries of entire Department	\$39,699 84
Running Expenses	15,064 28
Portland Water Company	2,400 00
Hydraulic Elevator Company	6,360 00
New Material, including 2 lots for Engine Houses	8,419 71
Expenses, including advertising and selling One's Engine House and sending relief to Seattle fire	672 75
New material and current expenses Fire Alarm Telegraph	2,424 18
Deficiency for the year 1888	1,984 20
Total,	\$ 77,024 96

ESTIMATES FOR 1890.

Salaries	\$ 47,699 84
Feed	3,500 00
Hydrants	500 00
Cisterns	200 00
Telephones	720 00
Coal	200 00
Coke	1,000 00
Wood	100 00
Gas	800 00
Harness repairs	200 00
Horse shoeing	750 00

Amt. carried forward, \$ 55,669 84

<i>Amt. brought forward,</i>	\$ 55,669 84
Repairs to apparatus	1,500 00
Repairs to houses	500 00
Small stores	500 00
City Water	2,400 00
Hydraulic Elevator Co.,	6,360 00
Veterinary Surgeon and Medicines	250 00
Office and Ground Rents	1,179 00
Office Expenses, Printing Stationery, Advertising, etc.,	500 00
Insurance	400 00
Horses	2,500 00
Hose and Pipe	4,200 00
Janitors Services	60 00
Oils	125 00
Miscellaneous, New Material, including 2 heaters for New Engine Houses and furnishing same	2,200 00
Fire Alarm Telegraph Expenses and New Material	3,500 00
New Engine House, South Portland	3,507 50
New Engine House, North Portland	3,000 00
New Engine and Truck House on 4th street	14,000 00
Two New Engines	8,950 00
Two New Hose Wagons	1,525 00
Swinging Harness	506 00
Total	\$ 113,332 34

Our estimates for the present year are necessarily much increased by the addition of the two new Engine Companies. In our last report we stated that we contemplated adding two new Hose Companies to the Department, but the rapid growth of our city decided us to put in Engine Companies complete with Hose.

The amount we have estimated for the Department for 1890—with the balance on hand in the Fire Department Fund—will

require \$83,223.54. which we respectfully ask your Honorable Body to levy and collect.

FIRE ALARM TELEGRAPH.

All the lines and material connected with this branch of the Department are in excellent order. We have added ten new boxes to the system, and propose to add ten boxes in the present year.

HYDRANTS.

We have continued our practice of following closely the Water Company's main with hydrants, putting sixty in position during 1889, and affording needed protection to a large territory. We understand that there will not be much new water line laid during the present season, and our expenditures under this head will be small.

HYDRAULIC ELEVATOR COMPANY.

We have nothing to add to our former recommendations of this system. It is now, as always, a very efficient protection to the district in which it is situated.

VALUE OF PROPERTY.

Total amount of property held in trust by the Commission is as follows:

Real estate and improvements	\$125,000 00
Horses, apparatus, furniture, tools, stores, etc . . .	54,450 00
Fire alarm, apparatus, etc	17,327 60
Total	\$196,777 60

In our estimates we have made no provision for a Fire Boat; while we hold the same opinion as heretofore expressed of the value and efficiency of such apparatus, yet the great cost of a proper boat and the great expense of maintaining it, together with the refusal of our neighboring municipalities seem to make any action in regard to it at the present time undesirable.

We estimate the cost of a suitable Fire Boat at say \$40,000, and running expenses at not less than \$10,000 per annum.

FIRE RECORD.

We are gratified to be able to state that the actual loss is less than that of any previous year since the establishment of the department.

In 1883 total losses amounted to	\$319,092 20
In 1884 " " "	403,851 90
In 1885 " " "	59,329 73
In 1886 " " "	98,146 16
In 1887 " " "	84,173 72
In 1888 " " "	54,347 70
In 1889 " " "	37,730 23

We beg to acknowledge our obligations to your Honorable Body, the Auditor and Deputy for courtesies received, and also to the Chief of Police and force for valuable assistance at fires.

Very respectfully,

T. B. TREVETT,
JAMES LOTAN,
GEO. L. STORY,

Fire Commissioners.

NEW MATERIAL PURCHASED.

January.	2 cuspadores, 1 boiler, 1 coal oil hod	\$ 5 45
"	1 one horse hanger	4 00
"	3 Douglas office chairs	7 50
"	1 hand truck	2 50
"	1 pipe wrench	3 00
"	1 set harness	35 50
"	50 feet 1 in. hose, 2 pairs gloves	20 50
February.	2 fire axes, 8 hose jackets	69 00
"	500 ft. 2½ in. 4-ply M. C. hose coupled	525 00
"	1 whip	1 50
"	1 heater	85 00
March.	1 thirty-two ft. ladder	14 00
"	1 span gray horses	425 00
"	1 bay mare	250 00
"	1 bay horse	250 00
April.	50 ft. line hose coupled	16 50
"	1 set harness, 1 blanket, 2 whips	54 50
"	1 fire king stove	24 55
"	1 brown horse	250 00
May.	1 whip	2 00
"	3 Sampson jacks	21 00
"	1 Berry collar and harness	32 50
June.	1 doz. Berry snaps	12 00
"	50 ft. 1 in. hose, coupled, 1 fire axe	19 00
July.	1 wrench	2 50
"	500 ft. 2½ in. 4-ply M. C. hose 25 ft. ¾ in. coupled	530 50
August	1 lantern, ½ doz. burners, 1 pail, 4 sprinklers, 1 feed box, 1 measure, 1 boiler	14 75
"	1 whip	2 00
"	50 ft. 1 in. hose, coupled	16 50

September.	1 black horse	200 00
"	500 ft. 2½ in. 4-ply hose, coupled	525 00
"	3 rubber spittoons	4 00
October.	1 coal hod	1 25
"	2 horse blankets, 1 whip	19 00
"	50 ft. 1 in. hose, 1 fire axe, 2 pipes	49 00
November.	lot 3, block 128, Caruthers Add	2250 00
"	6 combination wrenches, 12 spanners	67 06
"	1 tent for Truck 1	75 00
"	lot 2, block 291, Couch Add	2500 00
"	50 ft. 1 in. hose, coupled, 1 fire axe	19 00
December.	1 fire axe, 2 whips	5 25
"	1 hand truck, 1 shovel, 1 hatchet, 1 hammer	8 90
		<u>\$8,419 71</u>
	New material, Fire Alarm Telegraph	2,131 15
	Total	<u>\$10,550 86</u>

CURRENT EXPENSES.

Twelve months ending December 31, 1889.

Salaries of entire department	\$39699 84
Ground rent, Hose No. 1, and Truck No. 1, Engine Co. 1	615 23
Office rent	378 00
Insurance on houses	253 75
Office expenses, printing, stationery, advertising and janitor	576 35
Horse feed	2136 62
Hydrants, repairs and supplies	4798 31
Cisterns, repairs and supplies	194 00
Telephones, use of eight instruments	480 00
Coal	64 75
Coke	726 00
Wood	96 25
Gas	675 05
Harness repairs	120 90
Repairs to apparatus	1862 27
Repairs to houses	970 37
Horseshoeing	533 65
Small stores, (2 sponges, brushes, brooms, drugs, etc)	388 13
Oils	85 65
Water supply, City	2400 00
Water supply Hydraulic Elevator Co	6360 00
Veterinary surgeon and medicines	109 00
Sundry and miscellaneous expenditures including auctioneers } commissions selling property \$407 05, extra services fire } warden, \$150 00	672 75
Fire alarms (current expenses) labor, repairs, supplies, etc	293 03
Total	\$64489 90

RUNNING EXPENSES OF COMPANIES.

For twelve months ending December 31st, 1889.

ARTICLES.	Engine Co. No. 1	Engine Co. No. 2	Engine Co. No. 3	Engine Co. No. 4	H. & L. Co. No. 1	H. & L. Co. No. 2	Hose Co. No. 1	Hose Co. No. 2
Oats	\$ 107 00	\$ 107 63	\$ 94 15	\$ 104 64	\$ 171 35	\$ 64 54	\$ 48 62	\$ 88 73
Bran	15 47	19 59	5 95	3 21	15 21	8 19	16 92	17 27
Carrots	5 40	5 20	3 10	3 30	9 55	5 40	3 30	5 40
Hay	138 51	100 10	144 47	152 07	178 67	109 52	103 39	66 84
Straw	25 00	26 27	25 74	9 91	50 34	8 75	26 14	34 40
Horse Shoeing	78 50	73 50	52 25	72 00	120 50	44 25	51 65	38 00
Harness & Rep's	11 35	5 00	9 00	19 65	43 00	6 25	50	26 15
Coal	10 80	10 65	10 65	10 65	5 00	4 50	28 00	4 50
Wood	5 25	36 00	4 75	4 75	5 00	4 50	28 00	4 50
Rep's to Apparatus	552 58	250 78	82 98	250 81	240 68	45 48	121 25	28 15
Rep's to Houses	104 82	156 48	31 50	43 18	369 81	17 50	16 85	232 73
Oils	6 15	7 00	5 75	16 90	14 50	13 50	11 15	12 40
Small Stores	49 03	54 59	29 70	38 28	46 90	34 47	22 55	43 86
Vet. Surg. & Med.	50 00	3 50	3 50	5 50	22 50	4 50	11 25	8 25
Gas	84 65	94 75	71 05	77 20	150 15	59 00	60 05	71 00
Telephone	60 00	60 00	60 00	30 00	60 00	30 00	60 00	60 00
Coke	171 00	126 00	125 00	126 00	77 00	49 00	7 00	45 00
Salaries	4,800 00	4,800 00	4,800 00	4,800 00	3,720 00	3,720 00	3,240 00	3,240 00
Totals, \$6,275 51	\$5,937 04	\$5,559 54	\$5,768 05	\$5,295 46	\$4,224 85	\$3,828 62	\$4,022 68	

Hook and Ladder Company, No. 1, supplied gas to supply building, battery room and bell tower from their meter, fuel for battery room, also feed for the supply wagon and Chief's horses.

These items are simply to show cost of each Company for the year, and the above is computed in preceding accounts.

AMOUNT OF PROPERTY HELD IN TRUST.

REAL ESTATE

Engine Co. No. 1, Hook and Ladder Co. No. 1, lot and house Corp'n shed and tower	} estimated	\$35,000 00
Engine Co. No. 2, house and lot	"	25,000 00
Engine Co. No. 3, house and lot	"	15,000 00
Engine Co. No. 4 and Hook and Ladder Co. No. 2, houses and lot	} estimated	14,000 00
Engine Co. No. 5, lot	"	2,500 00
Engine Co. No. 6, lot	"	2,500 00
Old Couch Engine Co., house and lot	"	6,000 00
Hose Co. No. 2, house and lot	"	25,000 00
Hose Co. No. 1, house only	"	1,000 00
		<hr/> \$126,000.00

APPARATUS.

5 engines, 4 hose carts (2 wheels,) 4 hose carriages (4 wheels,) 2 engines unfit for fire purposes, hose and pipes, 1 ladder, heater, 1 first class hook and ladder truck, 1 second class hook and ladder truck		\$45,000 00
Harness, etc.,		1,100 00
Property in Corporation shed (not including the apparatus) as shown by inventories		500 00
Property in Commissioner's office		350 00
Property in engine houses, tools, stores, etc		3,500 00
23 horses		4,000 00
		<hr/> \$ 54,450.00
Fire alarm apparatus, in charge of Supt. of Fire Alarm Telegraph		17,327.60
Total		<hr/> \$197,777.60

CHIEF ENGINEER'S REPORT.

OFFICE OF CHIEF ENGINEER, P. P. F. D.,

PORTLAND, OREGON, Dec. 31, 1889.

To the Honorable the Board of Fire Commissioners:

GENTLEMEN:—I have the honor to submit herewith my sixth annual report (and the seventh of the organization), in which is a record of the operations of the department, and other information that may be deemed of interest during the year ending December 31st, 1889.

FIRES.

During the year the department has responded to 127 alarms, 64 being from the large bell, 7 telephones and 56 stills. In 1888 the loss was \$54,347.70, or the smallest since the organization of the department.

During this year the loss has been 30 per cent. less than in 1888. In looking over statistics at hand we find our loss during 1889 has been less than any city of like size in the United States.

APPARATUS.

The apparatus of the department is classified as follows:

Two second-class Amoskeag engines, one fourth-class Amoskeag engine, one third-class Silsby engine, four two wheel carts, two four wheel carriages, one first-class Hayes' hook and ladder truck, and one second-class Hayes' hook and ladder truck. The two new engines and hose wagons ordered by your Honorable Body will materially increase the efficiency of the department, and give the Northern and Southern portions of the city the protection that has been demanded in those localities.

RELIEF SERVICE.

One second-class Silsby engine, one four wheel hose carriage and one hand hose carriage, is all the apparatus now on hand for this service. Two Silsby engines comparatively worthless, should be sold to make room for more valuable material or apparatus.

HORSES.

There are twenty-three, (23) horses in the department at present, and an improvement in the stock by exchanging several of the teams for younger animals should take place at an early date. During the year two horses were sold, three died and six fire animals purchased.

WATER SUPPLY

The supply of water has been increased by the laying of new and larger mains in various parts of the city by the Water Committee and connecting the same with newly erected hydrants.

CISTERNS.

All the cisterns have connections with city mains and are in good condition, with one or two exceptions, and those will probably be abandoned in the near future.

HYDRANTS.

During the past year sixty-eight new hydrants have been set, the locations of which will be found in the subjoined report under proper heading. We will as far as possible during the coming year follow up the city mains as fast as laid by the Water Committee by setting new hydrants.

HOUSES.

The houses of the department are in good condition, as needed improvements have been made during the year. The new houses now under construction are being pushed towards completion as fast as the weather will permit.

FIRE ALARM TELEGRAPH.

This branch of the department has kept pace with the remainder of the service and ten additional boxes besides other improvements have been added to the system.

HOSE.

During the year we have purchased 1560 feet of rubber hose, and have now on hand about 6000 feet of hose in good condition on the reels and in supply building.

MUTUAL RELIEF ASSOCIATION.

This association is in a flourishing condition, the treasury being replenished monthly by dues and fines of members. During the year, twenty-seven warrants have been issued and paid for, benefits amounting to \$855.48. A complete record of the financial condition of the association accompanies this report.

In my last report I earnestly recommended the passage of an ordinance requiring the erection of stand pipes and fire escapes to buildings of three and more stories in height. I wish to again call your attention to this most important matter and hope the necessity for prompt action will not be overlooked.

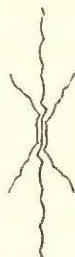
Stand pipes and fire escapes would be of such great benefit to property owners and occupants as well as to the fire department, that the passage of such an ordinance cannot be had too soon.

I wish at this time to recommend an amendment to the law authorizing the organization of the Department. I would suggest that half the extra men now in service be made permanent, as the city has grown to such dimension that it is a difficult matter at all times to hear the big bell, in outlying districts, and with a part permanent force all the apparatus could be brought into service, irrespective of the call men. This is a matter, that in my judgment, should receive your earnest attention.

In closing my report I desire to thank your Honorable Body for your energetic support in all matters pertaining to my duties, and to the officers and members of the department I am under many obligations for strict attention to duty.

Respectfully submitted,

HARRY MORGAN,
Chief Engineer.



LOCATION OF HOUSES.

- No. 1 Engine Company, east side of Fourth, between Morrison and Yamhill streets.
 No. 2 Engine Company, west side of Second, between Oak and Pine streets.
 No. 3 Engine Company, south side of B, at intersection of Fifteenth street.
 No. 4 Engine Company, east side of Fourth, between Montgomery and Mill streets.
 No. 5 Engine Company, east side of Front, between Whitaker and Gibbs streets.
 No. 6 Engine Company, east side of Nineteenth, between Q and R streets.
 Hook and Ladder Co. No. 1, east side of Fourth, between Morrison and Yamhill streets.
 Hook and Ladder Co. No. 2, east side of Fourth, between Montgomery and Mill streets.
 Hose Company No. 1, foot of C street, water front.
 Hose Company No. 2, east side of First, between Madison and Jefferson streets.
 Supply Building adjoining Engine Company No. 6.
 Bell Tower in rear Engine Company No. 1.

INSURANCE ON BUILDINGS.

Engine House No. 3, Anglo-Nevada Assurance Corporation . . .	\$ 1,500 00
Engine House No. 3, Imperial Fire Insurance Company of London	1,500 00
Engine House No. 4 and Hook and Ladder House No. 2, Phoenix Assurance Co. of London	1,500 00
And State Investment and Assurance Co., of San Francisco	1,500 00
Couch Engine House, State Investment and Assurance Co., of San Francisco	1,500 00
Hook and Ladder House No. 1 and Corporation Shed, Home Insurance Co., of New York	1,250 00
And The Union Insurance Co., of California	1,250 00
Total,	\$10,000 00

NUMERICAL STRENGTH OF DEPARTMENT.

PERMANENT FORCE UNIFORMED.

Chief Engineer	1
Engineers of Steamers	4
Drivers of Engines	4
Drivers of Hose Carts and Carriages	6
Drivers Hook and Ladder Trucks	2
Foremen of Hook and Ladder Trucks	2
Foremen Hose Companies	2
Driver of Supply Wagon	1
	—22

MEMBERS AT CALL.

1st Assistant Engineer	1
2d Assistant Engineer	1
Foremen of Engine Companies	4
Members at call of Engine Companies	24
Members at call of Hook and Ladder Companies	16
Members at call of Hose Companies	12
	—58
3 Commissioners.	
1 Secretary.	
1 Superintendent Fire Alarm.	

SALARIES OF OFFICERS AND MEN.

	Per Annum
1 Chief Engineer	\$2,000 00
1 First Assistant Engineer	600 00
1 Second Assistant Engineer	500 00
4 Engineers of Steamers	1,200 00
4 Drivers of Engines	900 00
4 Drivers of Engine Tenders	840 00
2 Drivers Hook and Ladder Trucks	900 00
2 Foremen Hook and Ladder Trucks	840 00
1 Assistant Foreman Hook and Ladder Truck	300 00
2 Drivers Hose Companies	900 00
2 Foremen Hose Companies	900 00
4 Foremen Engine Companies	360 00
4 Assistant Foremen Engine Companies	300 00
20 Members at call of Engine Companies	240 00
15 Members at call of Hook and Ladder trucks	240 00
12 Members at call of Hose Companies	240 00
1 Driver Supply Wagon	780 00
1 Superintendent Fire Alarm	1,500 00
1 Secretary	1,200 00

TABLES OF FIRES AND ALARMS.

YEAR ENDING DECEMBER 31, 1888.

MONTHS.	From all sources	From Boxes.	Stills.	Tele- phone.	Actual Fires.	False.
January	22	12	8	2	22	-----
February	6	2	3	1	6	-----
March	19	10	1	8	18	1
April	11	4	4	3	11	-----
May	14	7	6	1	14	-----
June	2	1	-----	1	2	-----
July	13	5	8	-----	13	-----
August	15	8	7	-----	12	3
September	10	4	6	-----	10	-----
October	5	4	1	-----	4	1
November	9	3	6	-----	9	-----
December	10	4	5	1	10	-----
Totals,	136	64	55	17	131	5

YEAR ENDING DECEMBER 31, 1889.

MONTHS.	From all sources	From Boxes.	Stills.	Tele- phone.	Actual Fires.	False.
January	19	10	8	1	17	2
February	4	3	1	-----	4	-----
March	5	2	3	-----	5	-----
April	9	3	6	-----	9	-----
May	5	1	3	1	5	-----
June	11	6	3	2	10	1
July	28	11	15	2	28	-----
August	12	8	4	-----	12	-----
September	12	6	6	-----	12	-----
October	6	4	2	-----	6	-----
November	8	5	3	-----	8	-----
December	8	5	2	1	7	1
Total,	127	64	56	7	123	4

CAUSES OF FIRES AND ALARMS, 1889.

Burning flues	15
Burning tar	1
Burning rubbish	8
Carelessness	23
Defective flues	5
False alarms	4
Falling stovepipe	1
Heating stove	2
Hot ashes	4
Heater	1
Heating and drying room	1
Fireworks	13
Kitchen stove	2
Lamp exploded	6
Lighting fire with coal oil	1
Mice gnawing matches	1
Sparks from chimneys	17
Smoking meat	1
Supposed incendiary	4
Spontaneous combustion	3
Unknown	14
Total	127

ANNUAL REPORT OF ENGINE CO. No. 1.

Location :—No. 32 South Side Morrison street, bet. First and Second.

COMPANY ROLL.

No. of Badge	NAME.	POSITION	Age	OCCUPATION	RESIDENCE.
3	M. Laudinklos . . .	Foreman	31	Lineman	7th and Salmon.
4	W. H. McMullen . . .	Engineer	44	Engineer	Engine House.
5	John Frainey	Engine Driver . . .	28	Teamster	Engine House.
6	Dave Campbell	Cart Driver	26	Teamster	Engine House.
7	A. E. Beckwith	Ass't Foreman . . .	28	Clerk	410 2d
8	L. Favoro	Extramam	42	Contractor	Engine House.
9	W. E. Jacobs	Extramam	30	Coal Oil Dealer . .	Engine House.
10	I. Frainey	Extramam	22	Elec Light Tndr . .	Engine House.
11	J. O'Connors	Extramam	23	Elec. Light Tndr . .	Engine House.
12	I. Denny	Extramam	27	Teamster	Engine House.

Number of times responded to big bell, 57.

Number of times responded to stills and telephone, 10.

Total number of hours service, 45.

RESIGNATION.

H. O. Rosefield, January 11th.

APPOINTMENTS.

I. Frainey, January 11th.

INVENTORY.

1 second-class Amoskeag engine (16 years old, in good order), 1 hose cart, complete, 750 feet Maltese Cross hose, 3 horses, 3 blankets, 1 whip, 1 jack screw, 5 gal. coal oil, 1 gal. machine oil, 1 singletree for engine, 1 crow bar, 2 small coal shovels, 2 pokers for engine, 1 cistern key, 1 relief valve on engine, 1 gong on engine, 1 hose clamp, 1 hose strap, 8 spanners, 4 play pipes, 1 heater complete, 250 lbs. of coal, 5 chairs, 1 table, 1 dandruff brush, 1 curry comb, 2 coal stoves and pipe, 2 galvanized iron buckets, 2 brooms, 1 scoop shovel, 1 galvanized iron kettle for stove, 1 towel, 1 sprinkler, 1 pitchfork, 1 axe, 1 hatchet, 2 ladders, 1 reel and rope, 1 double block and tackle complete, 1 extra hydrant connection, 2 1-gal. oil cans, 1 set of wrenches for engine complete, 3 rubber valves, ½ bottle spirits of niter, 2 torches, 1 duster, 1 engine house fire alarm gong, 1 telescope suction, 1 hand axe, 2 lanterns, 1 engine fire lighter, hanging harness for three horses, 1 Coffee's maker, 3 unhitchers, 3 rubber spittoons.

ANNUAL REPORT OF ENGINE CO. No. 2.

Location :—West side Second St., bet. Oak and Pine.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
13	R. T. Chamberlin . . .	Foreman	47	Carpenter	3d and Pine.
14	F. Read	Engineer	41	Engineer	Engine House.
15	T. Springer	Driver of Engine . .	31	Teamster	Engine House.
16	W. Collett	Driver of Hose . . .	31	Carpenter	Engine House.
17	L. Cone	Ass't Foreman . . .	32	Moulder	Wash. bet. 5th & 6th
18	R. Cullins	Extramam	26	Elec't L't Trimmer .	4th, bet. B and C.
19	J. Brown	Extramam	26	Clerk	Engine House.
20	R. Graham	Extramam	29	Teamster	Engine House.
21	E. Fuller	Extramam	31	Clerk	11th and F.
22	F. Moore	Extramam	34	Clerk	Pine, bet. 5th & 6th

Number of times responded to alarms from bell, 63.

Number of times responded to stills, 9.

Number of times responded to telephone, 3.

Number of hours service 36 hours and 10 minutes.

ACCIDENTS.

February 15, L. Cone, sprained knee.

INVENTORY.

1 second-class Amoskeag engine and heater complete, 1 two-wheel hose cart, 800 feet Maltese Cross hose, 3 horses, 1 set double harness, swinging, 1 set single harness, 1 large feed box, 3 small feed boxes (galvanized iron), 2 galvanized iron buckets, 5 hose spanners, 5 hydrant spanners, 2 whips, 2 hose clamps, 4 hose straps, 1 hand truck, 1 scoop shovel, 1 crowbar, 1 jack screw, 3 horse blankets, 1 dust brush, 1 horse brush, 1 curry comb, 1 dandruff brush, 1 block and tackle, 1 mop handle, 2 spittoons, 50 feet 1 inch hose, 1 clock, good, 2 clocks, no good, 10 chairs, 2 brooms, 1 stove, 1 sprinkler, 1 pitchfork, 2 cistern keys, 5 sacks coal, 5 gallons coal oil, 4 gallons lard oil.

ANNUAL REPORT OF ENGINE CO. No. 3.

Location:—B and Fifteenth Street.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
23	E. Thayer	Foreman	39	Bricklayer . . .	No. 258 Washington
27	T. Richet	Ass't Foreman . .	34	Grocer	Washington and 3d
24	W. Washer	Engineer	50	Engineer	Engine House.
25	W. White	Engine Driver . . .	33	Teamster	No. 308 B St.
26	S. Weller	Hose Driver	24	Teamster	Engine House.
32	E. Clopeck	Extraman	27	Poultryman . . .	Engine House.
30	C. Price	Extraman	32	Clerk	7th and Salmon.
29	F. Hicks	Extraman	29	Clerk	Engine House.
31	J. Young	Extraman	25	Marble Cutter . .	Engine House.
28	J. Flynn	Extraman	31	Blacksmith . . .	No. 326 B St.

Number of times responded to big bell, 64.

Number of times responded to still alarms and telephones, 14.

Total number of hours service, 60.

INVENTORY.

2 fourth-class Silsby engines, 1 second-class Silsby engine, 40 feet suction hose, 1 two wheel hose cart, 800 feet Maltese Cross hose, 3 horses, 1 set double harness, 1 single harness, 1 set extra lines, 2 Bury hangers for harness, 2 hose clamps, 6 spanners, 2 hose straps, 1 axe, 2 lanterns, 3 iron feed boxes, 3 horse blankets, 1 stable fork, 1 hlock and tackle, 2 shovels, 1 Gamewell alarm, 1 Coffee indicator, 2 unhitchers, 6 spittoons, 1 coal stove and pipe, 1 wood stove, 2 galvanized buckets, 2 brooms, 1 jack screw, 50 feet garden hose, 1 curry comb, 2 brushes, 3 chairs, 1 duster, 2 play pipes, 2 hydrant connection, 1 clock, 1 heater and connection.

ANNUAL REPORT OF ENGINE CO. No. 4.

Location:—East side Fourth St., bet. Mill and Mngtgomery.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
33	A. Campbell	Foreman	31	Saloon Keeper . .	
34	W. Vivian	Engineer	31	Engineer	Engine House.
35	J. Field	Engine Driver . . .	34	Teamster	4th and Mill
36	Wm. Keller	Hose Driver	31	Butcher	3d, bet. Mill & Montg
37	V. D. Behrens	Clerk	38	Blacksmith	Harrison, b 1st & Front
38	L. Wagner	Extraman	31	Teamster	4th, bet Mill & Montg
39	T. Richardson	Extraman	29	Boiler Maker . . .	Engine House.
40	Ed Simon	Extraman	41	Painter	3d, b Market & Mill
41	Lester Riley	Extraman	---	Barkeeper	Salmon & E. Park
42	C. Hoops	Extraman	30	Bricklayer	6th, b Morris'n & Alder

Number of times responded to alarms from big bell, 63.

Number of times responded to still alarms, 8.

Number of hours service, 57.

APPOINTMENTS.

C. Hoops, November 1st.

RESIGNATIONS.

A. H. Fitchner, November 1st.

INVENTORY.

1 fourth-class Amoskeag engine, 1 hose cart, 800 feet hose, 3 horses, 3 horse blankets, 1 set engine harness, 1 set hose harness, 2 engine lanterns, 8 chairs, 1 stove and pipe, 1 table, 2 hose pipes, 2 cranks for hose reel, 3 unhitching apparatus, 1 marker, 1 gong, 3 iron hay racks, 3 galvanized iron feed boxes, 2 iron buckets, 1 stable broom, 1 house broom, 1 duster, 1 heater pipe and cocks, 1 clock, 2 cistern keys, 1 torch, 2 monkey wrenches, 1 fire poker, 2 engine wrenches, 2 hydrant wrenches, 6 hose spanners, 1 steel crowbar, 2 hose clamps, 1 axe, 50 feet garden hose and nozzle, 1 curry comb and brush, 1 dandruff brush, 1 sponge, 1 scoop shovel, 1 pair lead bars, 1 engine shovel, 1 heater shovel, 1 jack screw, 2 suction length, 1 manure fork, 1 oil can, 1 cau coal oil, one-half gallon lard oil, 2 patent hangers and weights for engine harness, 3 patent collars, 1 engine gong, 1 fire lighter, 4 spittoons, 2 door springs, 1 hose hook and strap, 1 door chain and drawbolt, 3 unhitching straps, 3 hose straps, 1 sprinkler can, 1 dust pan and brush, 1 wire door mat, 1 galvanized kettle for stove, 2 sacks coal for engine, 13 batteries.

ANNUAL REPORT OF HOSE COMPANY No. 1.

Location :—Foot of C street, Water front.

COMPANY ROLL.

No. of Badge	NAME.	POSITION.	Age	OCCUPATION.	RESIDENCE.
53	J. D. King	Foreman	43	Painter	Hose House.
54	J. J. Kearney . . .	Driver	38	Driver	Hose House.
55	C. W. Thompson . .	Extraman	38	Driver	Hose H. use.
56	T. O. Keiffe	Extraman	41	Blacksmith . . .	Hose House.
57	H. Lewis	Extraman	41	Smelter	Hose House.
58	F. Harris	Extraman	27	Rectifier	206 E St.
59	H. F. Donovan . . .	Extraman	25	Plumber	Hose House.
60	C. H. Williamson . .	Extraman	34	Lineman	212 Stark St.

Number of times responded to alarms from big bell, 65.

Number of times responded to still alarms and telephones, 18.

Number of hours service, 46.

APPOINTMENTS.

F. E. White, April 1st; F. Harris, July 5th; A. Skillin, August 1st; H. F. Donovan, October 1st.

RESIGNATIONS.

D. H. Smith, April 1st; F. E. White, July 4th; J. McGrew, August 1st; A. Skillin, October 1st.

INVENTORY.

1 four-wheel hose carriage, 800 feet Maltese Cross hose, 2 horses, 1 double set harness, 1 stable broom, 2 house brooms, 1 table, 8 chairs, 1 curry comb, 1 dandruff brush, 1 hair brush, 1 screw driver, 1 stable shovel, 2 zinc buckets, 2 horse blankets, 1 whip, 1 box stove, 5 joints stove pipe, 1 monkey wrench, 5 gal coal oil, 50 feet 1-inch rubber hose, 6 hydrant wrenches, 5 hose spanners, 1 zinc boiler, 2 side lanterns, 1 spiking mawl, 2 gate forks, 2 reel cranks, 2 axes, 1 torch, 1 clock, 1 cold chisel, 1 pitchfork, 2 cuspadores, 1 gong on carriage, 1 block and tackle, 2 sponges, 1 horse unhitching apparatus, 1 Gamewell alarm gong and apparatus, 2 iron hay racks, 1 rivet punch, 2 service pipes, 1 crow bar, 1 hose clamp, 6 hose straps, 2 zinc feed boxes, 1 bar castile soap, 1 alarm clock, 1 lb. lamp black, 2 hub wrenches, 1 cord wood, 1 thumb oil can, 2 drop weights, 1 coal oil lamp, 1 can harness polish.

ANNUAL REPORT OF HOSE COMPANY No. 2.

Location :—West side First street, bet. Madison and Jefferson.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
61	H. McCarthy	Foreman	30	Moulder	Hose House.
62	W. Davis	Driver	25	Driver	Hose House.
63	W. Winters	Extraman	30	Upholsterer . . .	4th and Market.
64	A. Fitchner	Extraman	24	Moulder	Front and Grant.
65	A. Cook	Extraman	27	Upholsterer . . .	420 5th St.
66	N. Patton	Extraman	30	Stableman	Hose House.
67	T. Donahue	Extraman	28	Driver, O. T. Co .	Hose House.
68	F. Fletcher	Extraman	24	Clerk	Hose House.

Number of times responded to alarms from big bell, 64.

Number of times responded to still alarms, 8.

Number of hours in service, 44.

APPOINTMENTS.

T. Donahue, F. Fletcher.

RESIGNATIONS.

P. Manciet, B. Patton.

INVENTORY.

1 two horse hose carriage, 850 feet Maltese Cross hose, 1 hose clamp, 1 gong, 1 axe, 1 crowbar, 6 hydrant wrenches, 4 lanterns, 3 hose straps, 2 play pipes, 1 whip, 2 horses, 1 set double harness, 2 horse blankets, 2 iron feed boxes, 1 leather pouch for carriage, 1 scoop shovel, 1 pitchfork, 1 house axe, 1 wood stove, 1 coal stove, 1 house gong, 6 chairs, 1 clock, 1 table, 1 sprinkler, 6 spittoons, 7 window shades, 20 feet small hose, 1 jack screw, 2 house brooms, 2 stable brooms, 1 curry comb, 2 horse brushes, 2 water buckets, 1 iron water boiler, 1 block and tackle and 50 feet of rope, 1 extra hose carriage, with 500 feet Maltese Cross hose and 250 feet White Anchor hose, 2 play pipes.

ANNUAL REPORT OF HOOK AND LADDER CO. No. 1.

Location:—168 Fourth street, bet. Morrison and Yamhill.

APPARATUS.

1 first-class Hayes Truck fully equipped.

COMPANY ROLL.

NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
A. E. Nisonger	Foreman	32	Mill Hand . . .	191 4th.
Antony Richardson	Driver	26	Teamster	Truck House.
Wm. Woodall	Extraman	31	Collar Maker . .	Truck House.
M. Duffy	Extraman	26	Lineman	Truck House.
H. Kelley	Extraman	24	Clerk	Truck House.
W. E. Torpey	Extraman	51	Painter	Truck House.
A. A. Rosenthal	Extraman	25	Journalist	Truck House.
L. W. Malony	Extraman	41	Mill Hand	Truck House.
A. G. Stephin	Extraman	27	Engineer	Truck House.
F. E. Nisonger	Extraman	34	Moulder	93 Madison.

Bell alarms responded to, 62.

Telephone alarms responded to, 26.

Verbal alarms responded to, 6.

Hours work, 50:40.

APPOINTMENTS.

Wm. Woodall, July 1st.

RESIGNATIONS.

Wm. Smith, July 1st.

INVENTORY.

3 stoves, 15 chairs, 6 spittoons, 2 fire shovels, 3 iron buckets, 2 house brooms, 2 stable brooms, 2 pitch forks, 2 scoop shovels, 2 horse blankets, 1 whip, 1 mop, 1 feather duster, 1 curry comb, 1 corn broom, 3 horses, 3 sets swinging harness, 1 feed box, 13 gas jets, 2 extra Babcocks, 100 feet 1 inch hose with pipe, 1 indicator, 2 unhitchers, 1 gong, 1 jack screw, 1 clock, 1 hay hook, 1 Johnson pump, 1 set wire cutters.

ANNUAL REPORT OF HOOK AND LADDER CO. No. 2.

Location:— East side of Fourth street, bet. Mill and Montgomery.

APPARATUS.

Second-class Hayes Truck, fully equipped.

COMPANY ROLL.

No. of Badge	NAMES.	POSITIONS.	Age	OCCUPATION.	RESIDENCE.
69	J. Williams	Foreman	37	Carpenter	Truck House.
70	T. Grenfell	Driver	32	Teamster	Truck House.
71	Fred. Wagner	Extraman	37	Teamster	Truck House.
72	Wm. Stohlmann	Extraman	30	Florist	Jackson and 8th.
73	Wm. McMahon	Extraman	30	Surveyor	Truck House
74	R. Leslie	Extraman	42	Carpenter	69 Market
75	L. Martin	Extraman	43	Painter	Clay and 14th.
76	F. H. Wanklin	Extraman	25	Hack Driver . . .	Truck House.
77	C. Stuart	Extraman	37	Brick Mason . . .	Truck House.
78	E. Otis	Extraman	30	Clerk	Front and Harrison.

Bell alarms responded to, 62.

Telephone alarms responded to, 6.

Verbal alarms responded to, 0.

Hours in service, 56:30.

APPOINTMENTS.

Frank Nisonger, March 7th, extraman; N. McMahon, June 1st, extraman.

TRANSFERS.

N. McMahon, March 7th, to Truck No. 1; Frank Nisonger, June 1st, to Truck No. 1.

INVENTORY.

2 horses, 1 set swinging harness, 1 feed box, 2 horse blankets, 1 whip, 2 halterstraps, 1 iron feed measure, 2 stoves, 8 lengths pipe, 1 coal scuttle, 1 stove water boiler, 1 flue stop, 1 stove coal shovel, 1 table, 12 chairs, 5 spittoons, 2 iron buckets, 1 corn broom, 2 house brooms, 1 stable broom, 1 curry comb, 1 pitch fork, 1 dandruff brush, 1 horse brush, 1 scoop shovel, 1 mop, 1 dust pan, 1 nigger head, 1 feather duster, 1 sprinkler, 1 wire mat, 1 coal oil can, 1 oil can, 4 lanterns, 2 extra pole straps, 4 lbs. of bicarbonate of soda, 16 charges for Babcock, 1/2 bottle sulphuric acid, 50 feet 1 1/2 inch rubber hose with pipe, 1 jack screw, 1/2 can neatsfoot oil, 1/2 can castor oil, 8 gals. coal oil and 6 window shades.

REPORT OF KEEPER OF CORPORATION YARD.

Location:—East side Fourth street, bet. Morrison and Yamhill.

C. C. DOBLEBOWER, *First Assistant Engineer,*

Keeper of Corporation Yard.

INVENTORY.

2 third-class Silsby engines, 1 fourth-class Silsby engine (worthless), 1 four-wheel hose carriage, 1 supply wagon, 1 set of bobs for supply wagon, 1 single buggy, 1 set single buggy harness, 1 set single harness (supply horse), 2 pair two-horse lines, 6 old hand-tongues for engines, 1 coal tender, 2 steam heaters, 195 copper tubes for Amoskeag engine, 3 pair doubletrees, 3 whiffletrees, 6 rope reels, 100 lbs. mixed nails, 1 grind stone and hangers, 1 pick, 1 square pointed shovel, 1 adze, 1 steel square, 7 heater grates, ½ sack waste, 1 sack rags, 1 set Sarven wheels, 2 two-inch iron axles, 1 horse-tongue and neck yoke, 40 sacks coal, 1 new suction, 2 baskets for suction, 2 plug taps, 2 wheel wrenches, 2 crowbars, 19 hose spanners, 2 brass play pipes, 15 pair hose couplings, 2 Siamese couplings 1 hydrant reducer, 2 copper oil cups, 5 lanterns, 2 slice bars, 2 pokers, 3 battering rams, 3 pike poles, 2 horses, 600 feet rubber hose, 1 cistern wrench, 1 curry comb, 2 horse brushes, 1 water gange, 16 rubber valves, 32 springs for valves, 1 head light, 1 ladder, 1 chain hook, 1 set engine grate bars, 1 wheel pattern, 2 Amoskeag springs.

RECORD FOR TWELVE MONTHS ENDING DECEMBER 31, 1889.

MONTHS.	Loss on Buildings.	Loss on Contents.	Insurance on Buildings.	Insurance on Contents.	Loss Paid on Buildings.	Loss Paid on Contents.
January	\$ 454 00	\$ 586 00	\$ 400 00	\$ 1,550 00	\$ 204 00	\$ 296 00
February	1,500 50	16,196 00	2,800 00	23,000 00	1,500 50	16,196 00
March	---	---	---	---	---	---
April	100 00	50 00	---	---	---	---
May	---	---	---	---	---	---
June	200 00	495 00	---	600 00	---	495 00
July	616 50	1,297 45	10,000 00	17,500 00	555 50	1,297 45
August	5,319 60	3,540 00	16,700 00	8,600 00	4,819 60	3,040 00
September	---	245 00	---	500 00	---	245 00
October	100 00	2,200 00	---	1,400 00	---	1,400 00
November	1,872 22	2,457 96	2,000 00	6,750 00	1,272 22	2,307 96
December	400 00	100 00	---	---	400 00	100 00
Totals,	\$10,562 82	\$27,167 41	\$31,900 00	\$59,700 00	\$8,751 82	\$25,377 41

RECAPITULATION OF LOSSES AND INSURANCE.

FOR 1888.

LOSSES.

Losses on buildings	\$14,548 79
Losses on contents	39,798 91
	<u>\$54,347 70</u>

INSURANCE RECEIVED.

On buildings	\$ 6,798 79
On contents	23,314 16
	<u>\$30,112 95</u>

LOSSES OVER INSURANCE RECEIVED.

On buildings	\$ 7,750 00
On contents	16,484 75
	<u>\$24,234 75</u>

INSURANCE INVOLVED.

On buildings	\$ 62,775 00
On contents	51,250 00
	<u>\$114,025 00</u>

RECAPITULATION OF LOSSES AND INSURANCE.

FOR 1889.

LOSSES.

Losses on buildings	\$10,562 82
Losses on contents	27,167 41
	<u>\$37,730 23</u>

INSURANCE RECEIVED.

On buildings	\$ 8,751 82
On contents	25,377 41
	<u>\$34,129 23</u>

LOSSES OVER INSURANCE RECEIVED.

On buildings	\$ 1,811 00
On contents	1,790 00
	<u>\$ 3,601 00</u>

INSURANCE INVOLVED.

On buildings	\$31,900 00
On contents	59,700 00
	<u>\$91,500 00</u>

CITY HYDRANTS.

SOUTH OF MORRISON STREET.

- | | |
|-----------------------------|-------------------------------|
| 1. Water and Mill. | 35. Fourth and Lincoln. |
| 2. Water and Montgomery. | 36. Fifth and Main. |
| 3. Water and Harrison. | 37. Fifth and Columbia. |
| 4. Water and Hood. | 38. Fifth and Grant. |
| 5. Hood and Lincoln. | 39. Sixth and Clay. |
| 6. Hood and Caruthers. | 40. Sixth and Harrison. |
| 7. Hood and Meade. | 41. Sixth and Sherman. |
| 8. Corbett and Porter. | 42. Sixth and Sheridan. |
| 9. Corbett and Gibbs. | 43. Seventh and Market. |
| 10. Corbett and Curry. | 44. Seventh and Montgomery. |
| 11. Corbett and Abernethy. | 45. Seventh and Jackson. |
| 12. Corbett and Gaines. | 46. Seventh and Lincoln. |
| 13. Corbett and 1st Avenue. | 47. Seventh and Grant. |
| 14. Corbett and 3d Avenue. | 48. West Park and Salmon. |
| 15. Front and Lincoln. | 49. West Park and Jefferson. |
| 16. Front and Caruthers. | 50. West Park and Clay. |
| 17. Front and Gibbs. | 51. West Park and Mill. |
| 18. Front and Porter. | 52. West Park and Harrison. |
| 19. Front and Meade. | 53. West Park and College. |
| 20. First and Grant. | 54. Tenth and Jefferson. |
| 21. First and Sheridan. | 55. Eleventh and Salmon. |
| 22. First and Wood. | 56. Eleventh and Montgomery. |
| 23. First and Whitaker. | 57. Twelfth and Taylor. |
| 24. First and Davis. | 58. Twelfth and Jefferson. |
| 25. Second and Lincoln. | 59. Thirteenth and Taylor. |
| 26. Third and Yamhill. | 60. Fourteenth and Taylor. |
| 27. Third and Salmon. | 61. Fourteenth and Clay. |
| 28. Third and Madison. | 62. Fourteenth and Jefferson. |
| 29. Third and Clay. | 63. Chapman and Jefferson. |
| 30. Third and Market. | 64. Stout and Jefferson. |
| 31. Third and Sheridan. | 65. Stout and West Main. |
| 32. Third and Hooker. | 66. King and West Salmon. |
| 33. Fourth and Madison. | 67. King and West Yamhill. |
| 34. Fourth and Harrison. | |

CITY HYDRANTS.

NORTH OF MORRISON STREET.

- | | |
|-------------------------------|--------------------------|
| 1. Third and Alder. | 43. Fifteenth and N. |
| 2. Third and Stark. | 44. Fifteenth and P. |
| 3. Third and Pine. | 45. Fifteenth and S. |
| 4. Third and A. | 46. Sixteenth and F. |
| 5. Third and B. | 47. Sixteenth and M. |
| 6. Third and C. | 48. Sixteenth and U. |
| 7. Third and D. | 49. Seventeenth and E. |
| 8. Third and E. | 50. Seventeenth and I. |
| 9. Third and F. | 51. Seventeenth and K. |
| 10. Fourth and G. | 52. Seventeenth and S. |
| 11. Fifth and A. | 53. Eighteenth and B. |
| 12. Fifth and C. | 54. Eighteenth and D. |
| 13. Fifth and H. | 55. Eighteenth and F. |
| 14. Sixth and G. | 56. Eighteenth and H. |
| 15. Seventh and F. | 57. Eighteenth and J. |
| 16. Seventh and H. | 58. Eighteenth and L. |
| 17. West Park and Washington. | 59. Eighteenth and N. |
| 18. West Park and B. | 60. Eighteenth and P. |
| 19. West Park and D. | 61. Eighteenth and R. |
| 20. West Park and G. | 62. Eighteenth and U. |
| 21. Ninth and Stark. | 63. Nineteenth and B. |
| 22. Tenth and B. | 64. Nineteenth and E. |
| 23. Tenth and E. | 65. Nineteenth and I. |
| 24. Tenth and F. | 66. Nineteenth and K. |
| 25. Tenth and I. | 67. Nineteenth and Q. |
| 26. Eleventh and D. | 68. Twentieth and H. |
| 27. Eleventh and G. | 69. Twentieth and J. |
| 28. Eleventh and L. | 70. Twentieth and Q. |
| 29. Eleventh and N. | 71. Twentieth and S. |
| 30. Twelfth and Alder. | 72. Twenty-first and B. |
| 31. Twelfth and Washington. | 73. Twenty-first and E. |
| 32. Twelfth and F. | 74. Twenty-first and G. |
| 33. Twelfth and K. | 75. Twenty-first and I. |
| 34. Thirteenth and J. | 76. Twenty-first and L. |
| 35. Thirteenth and O. | 77. Twenty-first and N. |
| 36. Thirteenth and Q. | 78. Twenty-first and P. |
| 37. Thirteenth and S. | 79. Twenty-first and S. |
| 38. Fourteenth and Morrison. | 80. Twenty-second and S. |
| 39. Fourteenth and F. | 81. Twenty-third and S. |
| 40. Fifteenth and B. | 82. Twenty-fourth and S. |
| 41. Fifteenth and H. | 83. Twenty-fifth and S. |
| 42. Fifteenth and K. | 84. Twenty-sixth and S. |

HYDRANTS OF ELEVATOR CO.

1.	Front and Yamhill.	27.	Front and O.
2.	Front and Taylor.	28.	First and Yamhill.
3.	Front and Salmon.	29.	First and Taylor.
4.	Front and Main.	30.	First and Salmon.
5.	Front and Madison.	31.	First and Main.
6.	Front and Jefferson.	32.	First and Madison.
7.	Front and Columbia.	33.	First and Jefferson.
8.	Front and Clay.	34.	First and Columbia.
9.	Front and Market,	35.	First and Clay.
10.	Front and Morrison.	36.	First and Market.
11.	Front and Alder.	37.	First and Morrison.
12.	Front and Washington.	38.	First and Alder
13.	Front and Stark.	39.	First and Washington.
14.	Front and Oak.	40.	First and Stark.
15.	Front and Pine.	41.	First and Oak.
16.	Front and Ash.	42.	First and Pine.
17.	Front and A.	43.	First and Ash.
18.	Front and B.	44.	First and A.
19.	Front and C.	45.	First and B.
20.	Front and D.	46.	First and C.
21.	Front and E.	47.	First and D.
22.	Front and H.	48.	First and E.
23.	Front and I.	49.	First and F.
24.	Front and K.	50.	First and G.
25.	Front and L.	51.	Third and Oak (private.)
26.	Front and M.	52.	Fourth and C (private.)

CISTERNS.

LOCATION AND CAPACITY.

COMMENCING ON EACH STREET, SOUTH END OF CITY.

Location.	Capacity, Galls.	Location.	Capacity, Galls.
Front and Harrison	20,000	Fifth and Oak	15,000
Front and Columbia	20,000	Fifth and E	20,000
Front and Madison	20,000	Fifth and G	20,000
First and Meade	20,000	Sixth and College	20,000
First and Mill	15,000	Sixth and Mill	20,000
First and Jefferson	15,000	Sixth and Main	18,000
First and Salmon	20,000	Sixth and D	20,000
First and Taylor	20,000	Seventh and Harrison	15,000
First and Morrison	20,000	Seventh and Jefferson	20,000
First and Alder	20,000	Seventh and Salmon	15,000
First and Washington	20,000	Seventh and Morrison	8,000
First and Stark	23,000	Seventh and Washington	15,000
First and Oak	20,000	Seventh and Oak	15,000
First and Ash	20,000	Seventh and B	16,000
First and B	15,000	East Park and E	20,000
Second and Caruthers	20,000	Eighth and Hall	20,000
Second and Hall	20,000	Eighth and Clay	20,000
Second and Main	15,000	Eighth and E	17,000
Second and Alder	20,000	Ninth and Jefferson	20,000
Second and Stark	20,000	Ninth and Salmon	20,000
Second and Pine	25,000	Ninth and Morrison	20,000
Second and C	20,000	Ninth and C	15,000
Second and E	20,000	Ninth and G	20,000
Third and Grant	20,000	Tenth and Washington	15,000
Third and Montgomery	12,000	Eleventh and Madison	20,000
Third and Jefferson	15,000	Eleventh and B	20,000
Third and Taylor	20,000	Eleventh and J	20,000
Third and Morrison	20,000	Twelfth and Market	20,000
Third and Washington	15,000	Thirteenth and G	20,000
Fourth and Clay	20,000	Thirteenth and M	20,000
Fourth and Stark	20,000	Fifteenth and D	20,000
Fourth and B	11,000	Nineteenth and G	20,000
Fifth and Caruthers	20,000	Twentieth and B	20,000
Fifth and Taylor	15,000	Pacific and Yamhill	20,000
Fifth and Morrison	20,000	Lownsdale and Morrison	15,000
Fifth and Washington	15,000		

ANNUAL REPORT
—OF THE—
Superintendent Fire Alarm Telegraph.

PORTLAND, OR., Dec. 31, 1889.

*To the Honorable the Board of Fire Commissioners of the City of
Portland, Or.:*

GENTLEMEN :—In accordance with the rules and regulations (Sec. VI) I have the honor to submit herewith the seventh annual report of the Fire Alarm Telegraph, and to make for your consideration, such recommendations for the new year, as in my opinion are necessary, and will improve the efficiency of the Fire Alarm System.

During the past year this branch of the service has done its duty unflinchingly, and I might say with more than ordinary satisfaction, which fact is largely due to our excellent line facilities, and the new Gamwell apparatus that was put in during the year.

The last ten boxes sent us by the Gamwell Fire Alarm Telegraph Company are of a very superior make, being fitted with improved testing mechanisms that enable me to make a box test with more rapidity and positive results than have heretofore been attained.

Considerable change was made in the line during the year, which was necessary on account of remodeling of streets and installing the new boxes. About three miles of insulated line wire has been added to the system in place of bare wire. A mile of line was changed from North Seventh street (across Couch lake) to the Electric Light Co.'s poles on North Front street, and box 18 was moved from the corner of North Front

and N streets to the corner of North Front and L streets, in front of the Terminal Co.'s freight depot. By this change the distance between boxes 43, at Weidler's Mill, and 16, corner of First and F streets, was more evenly divided. New line was built from the corner of Sixth and G streets along G to Seventh street and back to North Front street, the same being necessary to take in box 45, corner of Seventh and G streets. New line was built from Thirteenth and I streets, making a change in the line here from its old route to along I street to Tenth, along Tenth to J, taking in box 48, corner of J and Tenth streets, along J to Ninth, along Ninth to D street, here connecting on to the old line. The old line between Ninth and D and Thirteenth and I streets was taken down; new line was built from box 24, corner of Thirteenth and G streets, out G to North Seventeenth, along North Seventeenth taking in box 47, corner of North Seventeenth and F streets, thence along North Seventeenth to B, along B to North Fourteenth street. The old line between North Fourth and B streets and box 24 were taken down. New line was built from the corner of First and Clay streets, along Clay to Water street, along Water to the corner of Harrison, taking in box 39, corner of Water and Harrison streets, thence up Harrison to Front, along Front to Hall, along Hall to box 4. The old line between First and Clay streets, and First and Hall was taken down. Insulated line wire, weather proof, has been used for all this work, and now a goodly portion of our line is insulated wire. We have some uncovered wire yet on North Thirteenth, two lines from T to G streets, also some on South First street from Hall to Meade street, also along Caruthers from South First to South Fourth, and in several other places. This bare line wire I mean to replace with insulated, weather proof line wire as rapidly as possible, as I find in practice that the insulated wire obviates a great deal of trouble from petty crosses and construction interferences of other wires, and then again it is a safeguard against excessive currents too heavy for our delicate machinery.

The thirty fire electric protectors spoken of in my last report have been put up at as many boxes, for the protection of the box, and twelve more have been received and will be put in circuit in the engine houses and central office as soon as practicable. Slack has been taken out of the line wherever necessary and a number of brackets refastened, and at present our line is in very good condition. A number of the old boxes have been re-installed and new box cable put in throughout the system.

The battery room which was located in the corporation house was moved temporarily to a room in Mann's building, on the corner of Morrison and Fourth streets, awaiting the erection of the new quarters.

Reference will be had to the following pages for a complete list of the location of boxes, inventory of apparatus, line, battery and tools.

SIGNAL BOXES.

- 3—Southwest corner Salmon and Front streets.
- 4—Northwest corner Hall and First streets.
- 5—Southwest corner Mill and Fourth streets.
- 6—Northwest corner Jefferson and First streets.
- 7—Northwest corner Jefferson and East Park streets
- 8—Southeast corner Morrison and Tenth streets.
- 9—Northwest corner North Eighth and E streets.
- 12—Southwest corner Morrison and First streets.
- 13—Northwest corner Washington and Third streets.
- 14—Northwest corner Oak and Second streets.
- 15—West side First street, between Vine and Ash streets.
- 16—Southwest corner North First and F streets.
- 17—Southeast corner North Fifth and D streets.
- 18—Southeast corner North Front and L streets.
- 19—Northwest corner Front and Stark streets.
- 21—Southwest corner Morrison and Fifth streets.
- 23—Southeast corner East Park and Oak streets.
- 24—Northwest corner Thirteenth and G streets.
- 25—Southwest corner North Thirteenth and N streets.
- 26—Northwest corner North Fifteenth and S streets.
- 27—South side Washington street, opp. North Fifteenth street.
- 28—Southwest corner North Eleventh and C streets.
- 29—Southeast corner Twenty-first and E streets.
- 31—Northwest corner Mead and First streets.
- 32—Northeast corner Jefferson and Twelfth streets.
- 34—Southeast corner Jackson and Seventh streets.
- 35—Southeast corner Clay and Fourteenth streets.
- 36—Northeast corner Montgomery and Ninth streets.
- 37—Northeast corner Grant and Fourth streets.
- 38—Southeast corner Front and Market streets.
- 39—Southeast corner Water and Harrison streets.
- 41—Northeast corner North Nineteenth and J streets.
- 42—Southeast corner Twenty-first and S streets.
- 43—Weidler's Mill, R and North Front streets.
- 45—Southeast corner North Seventh and G streets.
- 46—Southeast corner Nineteenth and B streets.
- 47—Northeast corner North Seventeenth and F streets.
- 48—Southwest corner North Tenth and J streets.
- 51—Southwest corner Corbett and Whiteaker streets.
- 52—Northwest corner of Main and Fourth streets.
- 53—Southeast corner West Park and Yamhill streets.
- 54—Southwest corner Fourth and A streets.
- 61—Southeast corner Front and C streets.

There have been sixty-four bell alarms, of which the following table is a correct detail :

Box.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total from each Box.
3								1			1		2
4											1		1
5													0
6							1	1	2				4
7					1								1
8									1			1	2
9	1						2	1					4
12							1						2
13	1									1			2
14							1			2		1	3
15	2			1			1						3
16		1				1							4
17	1	1				1		1					2
18													4
19													0
21						1	1						0
23			1			2	1	1			1	1	6
24	1	1											7
25								1					2
26								1					1
27													1
28							1						0
29													1
31													0
32				1			3						3
34													1
35													0
36			1								1		1
37									1				2
38												1	2
39													0
41													0
42													0
43									1			1	2
45													0
46													0
47													0
48													0
51											1		0
52				1					1				1
53													0
54													2
61													0
Tot'l	10	3	2	3	1	6	11	8	6	4	5	5	64

INVENTORY AND VALUE OF FIRE ALARM
PROPERTY.

APPARATUS.

43 Gamwell automatic non-interference signal boxes . . .	\$ 6,555 00
1 Gamwell three circuit repeater	650 00
1 tower bell, 4,067 lbs. and striking apparatus	3,000 00
1 tower bell, (small,)	100 00
4 galvanometers	80 00
1 galvanometer and rheostat	88 00
1 tripod for same	9 00
1 relay (large)	40 00
9 relays (small)	40 00
1 telegraph key	5 00
6 Gamwell gongs, 14-inch, Gamwell	1,500 00
6 recorders (Coffee's patent)	600 00
2 gongs, 10-inch, refitted to 14-inch	90 00
2 gongs, 6-inch	60 00
1 gong, 8-inch Gamwell	75 00
1 Gamwell indicator	150 00
3 C. E. W. No. 1 switches	12 00
16 two-point switches	16 00
14 electric horse unhitchers (Coffee's patent)	1,130 00
35 electric protectors	425 00
	<hr/>
	\$14,625 00

APPARATUS NOT IN USE.

1 electro mechanical chalk marker	\$20 00
	<hr/>
	\$ 20 00

BATTERY.

160 cells, No. 1 gravity battery	\$ 160 00
72 cells, LeClanche battery	36 00
	<hr/>
	\$ 196 00

BATTERY MATERIAL.

100 lbs. blue stone	\$ 6 50
5 No. 1 gravity jars	2 50
	<hr/>
	\$ 9 00

Amount carried forward, \$14,850 00

Amount brought forward, \$14,850 00

MATERIAL.

18 miles of line, strung on poles, housetops, etc.,	\$483 00
30 forty-foot cedar poles set	135 00
14 thirty-five-foot cedar poles set	56 00
79 twenty-five-foot cedar poles set	158 00
3,000 feet office cable	146 00
1,260 feet office wire No. 14	25 00
32 two-wire cross-arms	4 70
395 pins, oak	9 81
175 brackets, oak	10 50
49 brackets, iron	25 00
1,000 Standard insulators	60 00
2 gross screws	5 00
25 Pony insulators	1 50
1 bar solder	20
179 staples (box pipe)	1 00
190 lagg screws	4 00
1,124 lagg screws	22 00
1 1/2 miles No. 10 galvanized iron wire (old)	5 00
Porcelain bobbins	1 00
321 V iron brackets	401 00
	<hr/>

\$1,553 71

TOOLS.

1 eighteen foot ladder	\$ 9 00
1 pair climbers	2 00
1 machine hammer	1 00
1 pair Buckley stretchers	5 00
1 strap and vise	3 00
2 pair Stubbs' pliers	3 50
1 bench vise	12 00
1 ratchet brace	2 25
2 car bits	75
2 ropes	1 80
1 work bench	9 00
1 thermometer	50
	<hr/>

\$ 49 80

Amount carried forward, \$16,453 51

Amount brought forward, \$16,453 51

TOOLS—CONTINUED.

2 files	50
2 screw drivers	1 00
1 solder pot	2 50
1 solder iron	50
1 rubber funnel	25
1 coal oil stove	3 00
1 gas stove	2 50
1 battery syringe	2 75
1 saw	2 00
1 chisel	50
1 monkey wrench	50
1 tape line	1 50
1 post hole digger	7 00
	\$ 24 50

FURNITURE.

1 instrument table, long	\$ 11 00
1 instrument table, short	2 00
3 chairs	10 00
1 coal box	5 00
2 coal stoves	15 00
1 set battery shells	5 00
2 gas fixtures	4 00
1 coal scuttle	1 50
1 ink stand	1 00
1 pen rack, etc	50
	\$ 55 00
Total	\$16, 01

EXPENDITURES.

New apparatus	\$1,160 35
New material and labor	1,070 80
Current expenses	293 03
	\$2,524 18

RECOMMENDATIONS.

In order to keep pace with our rapidly growing city and to properly protect the increasing suburbs, it will be necessary, during the coming year to construct two additional circuits and to divide one of our present circuits in two; also to add ten new signal boxes to the system in localities not properly protected at present, and in new districts.

Therefore I would recommend that an additional three-circuit Gamwell Repeater be purchased, as we shall have six circuits instead of three.

Also ten non-interfering Gamwell signal boxes be purchased. Also eighteen electric protectors for the boxes not already supplied with them.

I would renew my recommendation of last year regarding the attachment of a large gong to each telephone line in the several houses in addition to the regular telephone set. The gong to be rung by the Telephone Company only in case of a fire. This gong would also operate the nnhitching apparatus.

By this arrangement much valuable time could be saved on a telephone alarm and the chances of a mistake that will sometimes occur under the present crude arrangement will be greatly lessened. At present, when the telephone rings for any cause whatever, the men and horses are in a restless state until the cause of the call is ascertained. By the application of the gong arrangement, if the gong rings, it is for a fire, and all hands proceed to prepare to leave the house without delay, while the Foreman or Engineer takes the telephone alarm. If the magnets or small bell rings on the telephone it is for business conversation.

Also my recommendation of last year regarding a private system of small bells in operation in the city for notifying the call members of the department of a fire. These bells are placed

in the residence, work-shop or office of the call members, and maintained by them or some electrical expert; connection is made by a contact point in their company's gong. The electrical power is furnished by a series of La Clanche battery, situated at the company quarters. These plants are paid for and owned by the firemen and have become almost a necessity, and as they have been put up in all manner of conditions they are not reliable—oftentimes the bell fails to operate. As I think this system of fire alarms is a valuable adjunct to the Fire Department, I would recommend that the City purchase a number of small gongs and replace those now in use, also the wires and batteries and take charge of this system as a part of the Fire Alarm Telegraph. By this arrangement reliability will be assured and subsequently the attendance of the member, which we want more than his fine.

In conclusion, I tender my most sincere thanks to your Honorable Body and to the officers and members of the Fire Department for the earnest support you have always given me, also to the members of the several municipal departments, and to Messrs. P. F. Morey, General Manager Electric Light Co., J. H. Thatcher, Manager Telephone Co., and their employes, for the many courtesies shown me in the discharge of my duties.

Very respectfully,

A. J. COFFEE, JR.

Supt. F. A. Tel.