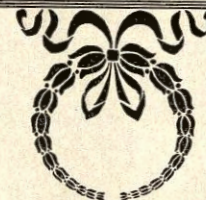


MAYOR'S MESSAGE
AND
MUNICIPAL REPORTS



FOR THE YEAR ENDING DECEMBER 31, 1908
PORTLAND, OREGON

MAYOR'S MESSAGE
MUNICIPAL REPORT



1909
GLASS & PRUDHOMME CO.
PORTLAND, ORE.

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OFFICERS OF THE CITY GOVERNMENT

Mayor.....Harry Lane
 Auditor.....A. L. Barbur
 Deputy Auditor.....S. Grutze
 Deputy Auditor.....F. Henshaw
 Deputy Auditor.....W. S. Lotan
 Deputy Auditor.....W. D. Smith
 Deputy Auditor.....E. W. Jones
 Deputy Auditor.....James Gill
 Deputy Auditor.....R. C. Flanders
 Deputy Auditor.....Milton Weidler
 Deputy Auditor.....M. A. McEachern
 Deputy Auditor.....J. S. Hutchinson
 Deputy Auditor.....C. F. Wiegand
 Deputy Auditor.....R. R. Robinson
 Treasurer.....J. E. Werlein
 Deputy Treasurer.....O. P. Miller
 Deputy Treasurer.....E. W. Paget
 City Attorney.....John P. Kavanaugh
 Deputy City Attorney.....H. M. Tomlinson
 Deputy City Attorney.....Frank S. Grant
 Deputy City Attorney.....R. A. Sullivan
 City Engineer.....D. W. Taylor
 Principal Assistant Engineer.....John R. Hanson
 Office Deputy.....Merwin Pugh
 Draughtsman, City Engineer.....R. Rueter
 Sewer Inspector.....Wm. Braden
 Bridge Inspector.....Nels Reed
 Street Inspector (Southeast Section).....Geo. F. Bodman
 Street Inspector (Northeast Section).....Aug. A. Ohlhoff
 Street Inspector (West Side).....A. L. Powell

Sidewalk Inspector.....J. K. Carr
 Sidewalk Inspector.....A. Fleming
 Municipal Judge.....John Van Zante
 Chief of Fire Department.....David Campbell
 Chief of Police.....C. Gritzmacher
 Supt. of Street Cleaning and Sprinkling Dept....Alexander Donaldson
 Inspector of Plumbing and Drainage.....Wm. Hey
 Deputy Inspector Plumbing and Drainage.....C. Barrell
 Deputy Inspector Plumbing and Drainage.....Robt. Simpson
 Deputy Inspector Plumbing and Drainage.....Geo. Otterstead
 Building Inspector.....Guy E. Dobson
 Deputy Building Inspector.....H. E. Plumber
 Deputy Building Inspector.....W. K. Benvie
 Deputy Building Inspector.....J. H. Leist
 City Physician.....Dr. F. L. Ziegler
 Health Officer.....Dr. Esther C. Pohl
 Deputy Health Officer.....K. McCroskey
 Deputy Health Officer.....Dr. H. G. Parker
 Deputy Health Officer.....J. M. Kelty
 Market Inspector.....Sarah Evans
 Bacteriologist.....R. Matson
 Medical Inspector of Schools.....Dr. L. E. Story
 Medical Inspector of Schools.....Dr. S. M. Gellert
 School Nurse.....Rachael D. Shatto
 Park Keeper.....E. T. Mische
 Harbor Master.....Capt. J. Speier
 Pound Master.....Fred Reed
 Curator Museum.....E. P. Sheldon
 Superintendent Water Department.....F. T. Dodge
 Engineer Water Department.....D. D. Clarke
 Secretary Civil Service Commission.....W. W. McIntosh
 Superintendent Garbage Crematory.....C. L. Daggett
 Sealer Weights and Measures.....F. G. Buchtel
 Deputy Sealer Weights and Measures.....E. D. Jones

COUNCIL

Time Expires.

President of the Council.....	A. G. Rushlight, July 1, 1911
First Ward.....	T. J. Concannon, July 1, 1911
Second Ward.....	Hugh W. Wallace, July 1, 1909
Third Ward	Geo. D. Dunning, July 1, 1909
Fourth Ward.....	Geo. L. Baker, July 1, 1911
Fifth Ward.....	W. I. Cottel, July 1, 1909
Sixth Ward.....	Henry A. Belding, July 1, 1911
Seventh Ward.....	A. G. Rushlight, July 1, 1911
Eighth Ward.....	Frank S. Bennett, July 1, 1911
Ninth Ward.....	R. E. Menefee, July 1, 1909
Tenth Ward.....	W. T. Vaughn, July 1, 1909
At Large.....	H. A. Heppner, July 1, 1909
At Large.....	A. N. Wills, July 1, 1909
At Large.....	J. Annand, July 1, 1911
At Large.....	Geo. B. Cellars, July 1, 1911
At Large.....	M. J. Driscoll, July 1, 1911

STANDING COMMITTEES OF THE COUNCIL

WAYS AND MEANS

Meets at 2 o'clock p. m., Monday—Council Week

A. G. Rushlight W. I. Cottel Geo. L. Baker
G. D. Dunning W. T. Vaughn

ACCOUNTS AND CURRENT EXPENSES

Meets at 2 o'clock p. m., Tuesday—Council Week

R. E. Menefee John Annand Frank S. Bennett

STREET CLEANING AND SPRINKLING

Meets at 1:30 o'clock p. m., Wednesday—Council Week

Geo. L. Baker H. A. Belding Geo. B. Cellars
G. D. Dunning A. N. Wills

STREETS

Meets at 2 o'clock p. m., Friday—Preceding Council Week

W. T. Vaughn T. J. Concannon W. I. Cottel H. A. Heppner
A. G. Rushlight H. W. Wallace M. J. Driscoll

SEWER AND DRAINAGE

Meets at 10 o'clock a. m., Friday—Preceding Council Week

A. N. Wills Frank S. Bennett John Annand Geo. L. Baker
Geo. B. Cellars George D. Dunning M. J. Driscoll

PARKS AND PUBLIC PROPERTY

Meets at 1:30 o'clock p. m., Wednesday—Council Week.

M. J. Driscoll W. I. Cottel H. W. Wallace

HEALTH AND POLICE

Meets at 11 o'clock a. m., Friday—Preceding Council Week

T. J. Concannon John Annand A. N. Wills

JUDICIARY AND ELECTIONS

Meets at 3 o'clock p. m., Monday—Council Week

Frank S. Bennett W. T. Vaughn Geo. B. Cellars

STREET LIGHTING

Meets at 1:30 o'clock p. m., Wednesday—Council Week

Geo. B. Cellars Geo. L. Baker H. A. Belding
R. E. Menefee T. J. Concannon

LICENSES

Meets at 2 o'clock p. m., Monday—Council Week

R. E. Menefee H. A. Heppner T. J. Concannon
H. A. Belding John Annand

COMMERCE, LANDINGS AND WHARVES

Meets at 1:30 o'clock p. m., Wednesday—Council Week

H. W. Wallace A. G. Rushlight H. A. Heppner

LIQUOR LICENSE

Meets at 3 o'clock p. m., Monday—Council Week

W. I. Cottel H. W. Wallace M. J. Driscoll A. G. Rushlight
A. N. Wills Frank S. Bennett W. T. Vaughn

Regular meetings of the Council on 2nd and 4th Wednesdays of each month at 9:30 o'clock a. m.

REGULAR MEETINGS OF THE COUNCIL

Second and Fourth Wednesdays of each month,
at 9:30 o'clock a. m.

COMMITTEE MEETINGS

Council Week

Monday, 2 p. m.....Ways and Means
Monday, 3 p. m.....Judiciary and Elections
Monday, 2 p. m..... License
Monday, 3 p. m..... Liquor License
Tuesday, 2 p. m.....Accounts and Current Expenses
Wednesday, 1:30 p. m.....Street Cleaning and Sprinkling
Wednesday, 1:30 p. m.....Parks and Public Property
Wednesday, 1:30 p. m.....Commerce, Landings and Wharves
Wednesday, 1:30 p. m.....Street Lighting

Preceding Council Week

Friday, 11 a. m.....Health and Police
Friday, 10 a. m.....Sewers and Drainage
Friday, 2 p. m..... Streets

EXECUTIVE BOARD

Harry Lane, Mayor, Chairman

H. M. Esterly J. A. Newell Isaac Swett Thos. G. Greene
John Montag P. E. Sullivan Seneca Smith

COMMITTEES OF THE EXECUTIVE BOARD

RULES AND ORDER OF BUSINESS

Meets 3:30 p. m., Friday—Board Meeting Day

Thos. G. Greene J. A. Newell P. E. Sullivan

FIRE

Meets 4 p. m., Thursday—Preceding Board Meeting Day

John Montag P. E. Sullivan Isaac Swett

POLICE

Meets 4 p. m., Thursday—Preceding Board Meeting Day

Thos. G. Greene

BRIDGES

Meets 4 p. m., Thursday—Preceding Board Meeting Day

J. A. Newell John Montag H. M. Esterly

STREETS

Meets 4 p. m., Thursday—Following Board Meeting Day

Isaac Swett P. E. Sullivan H. M. Esterly

SEWERS

Meets 3 p. m., Thursday—Preceding Board Meeting Day

Seneca Smith H. M. Esterly

STREET CLEANING

Meets 2 p. m. Board Meeting Day

Seneca Smith Isaac Swett

LIGHTS

Meets 3 p. m. Board Meeting Day

Thos. G. Greene

CITY HALL

Meets 3 p. m. Board Meeting Day

P. E. Sullivan

J. A. Newell

CURRENT EXPENSES

Meets 3:30 p. m. Board Meeting Day

H. M. Esterly

Executive Board meets on the Fridays following the second and fourth Wednesdays of each month, and last day of each month at 4 o'clock p. m.

BOARD OF HEALTH

Harry Lane, Mayor, Chairman

Dr. Geo. F. Wilson Dr. Robert C. Yennery Dr. Andrew J. Giesy

C. Grifzmacher, Chief of Police

Dr. F. L. Ziegler, City Physician

Dr. Esther C. Pohl, Health Officer

Meets first day of each month at 9:30 a. m.

PARK BOARD

Harry Lane, Mayor, Chairman

Dav Raffety

Ion Lewis

J. R. Wilson

E. T. Mische, Parkkeeper

Meets first Friday of each month at 10 a. m.

WATER BOARD

Harry Lane, Mayor, Chairman

R. B. Lamson G. W. Allen Jas. D. Hart C. H. Raffety

Frank T. Dodge, Superintendent D. D. Clark, Engineer

Meets second Wednesday in each month at 3 p. m.

CIVIL SERVICE COMMISSION

P. L. Willis

J. W. Blain

W. L. Brewster

W. W. McIntosh, Secretary of Civil Service Commission

Mayor's Message

Jan. 12, 1909.

To the Honorable, the City Council of the City of Portland, Oregon:

Gentlemen: Complying with the requirements of the City Charter, I herewith submit my annual message, together with the reports of the several boards and departments of the City Government for the fiscal year ending December 31st, 1908. Reports are submitted to me from the Auditor, City Treasurer, City Attorney, City Engineer, Building Inspector, Health Officer, Superintendent of Crematory, Superintendent of Street Cleaning and Sprinkling Department, Civil Service Commission, Plumbing Inspector, Poundmaster, Municipal Judge, Harbormaster, Chief of Police, Chief of Fire Department, Superintendent of Fire Alarm and Police Telegraph, Food Inspector, Superintendent of Parks, President Library Association, Sealer of Weights and Measures and Superintendent and Engineer of the Water Board:

From the Auditor's Report I submit the following statement of Cash Receipts and Disbursements during the year 1908:

RECEIPTS

Total balance Jan. 1st, 1908.....	\$ 702,097.13
General fund	577,655.82
Fire Department fund	386,566.89
Police Department fund.....	134,759.69
Bonded indebtedness interest fund.....	113,794.94
Lighting fund	94,179.34
Street repair fund	85,449.51
Public Library fund	21,144.90
Park fund	59,178.12
Water fund	543,268.00
Water bond sinking fund.....	87,574.60
Improvement fund	9,912.30
Improvement bond sinking fund	172,104.18
Improvement bond interest fund	41,469.13
Street and sewer interest fund.....	5,854.32
Police and Fire Department relief fund.....	3,901.40
Redemption fund	4,489.34
Bill posting badge fund	41.00

Special bridge fund	117,815.33
Street improvement fund	1,557,121.97
Sewer fund	106,745.79
Street extension fund	24,961.30
Park and boulevard fund.....	510,945.00
Portland Railway Light & Power Co. deposit fund.....	1,000.00
Total receipts	\$5,311,030.00

DISBURSEMENTS

General fund	\$ 433,100.63
Fire Department fund	375,567.82
Police Department fund	192,371.67
Bonded indebtedness interest fund.....	86,630.00
Chemical National Bank of New York.....	37,650.00
Chase National Bank of New York.....	1,620.00
N. W. Harris & Co., of New York.....	15,090.00
Blair & Co., of New York.....	600.00
Lighting fund	56,558.76
Street repair fund	95,504.36
Public Library fund	21,144.90
Park fund	54,702.18
Water fund	286,116.87
Water bond interest fund.....	145,200.00
Water bond sinking fund.....	87,460.74
Improvement fund	38,854.65
Improvement bond sinking fund.....	187,853.57
Improvement bond interest fund.....	59,519.77
Street and Sewer interest fund.....	11,538.69
Police and Fire Department relief fund.....	6,789.19
Redemption fund	4,390.18
Bill posting badge fund.....	32.00
Special bridge fund.....	81,345.41
Street improvement fund	1,517,573.05
Sewer fund	107,938.10
Street extension fund.....	13,499.97
Morrison Street bridge fund.....	1,056.24
Cascade Power Co. deposit fund.....	1,000.00

Total disbursements

3,920,708.75

Total balance Dec. 31st, 1908.....

1,390,321.25

Total receipts

\$5,311,030.00

The total amount expended by the departments named during the year 1908 was as follows:

Fire department	\$386,314.22
Police department	194,832.26
Street repair fund.....	96,517.27
Public Library fund.....	21,144.90
Park fund	55,307.11
Water fund	269,607.12
Special bridge fund	61,748.75
Lighting fund (warrants drawn).....	72,671.87
Bonded indebtedness interest fund.....	138,630.00
Health department	19,846.37
Crematory department	16,995.36
City Engineer's department.....	108,906.02
Street Cleaning and Sprinkling department.....	125,970.56
Pound department	5,516.33
Plumbing Inspector's department.....	6,412.67
Harbormaster's department	2,400.00
Civil Service Commission.....	1,980.00
Building Inspector's department.....	7,264.70
Sealer Weights and Measures.....	1,800.00

The available balance remaining in the following funds Jan. 1st, 1909, with all outstanding warrants paid, were:

General fund	\$172,286.64
Fire fund	24,552.66
Police fund	824.28
Park fund	19,366.12
Street repair fund	4,737.16
Water fund	116,903.22
Bonded indebtedness interest fund.....	40,041.98
Lighting fund	36,287.52
Special bridge fund.....	33,042.43

From the balance of \$172,286.64 reported in the General Fund must be deducted the sum of \$50,000.00 not transferred during 1908, as required by law, to the Water Fund.

From the balance of \$36,287.52 reported in the Lighting Fund must be deducted warrants for \$5,438.79 drawn in January for December bills of the Portland Railway, Light & Power Co., leaving the balance in this fund \$30,848.73. Against this balance is a disputed claim of the Portland Railway, Light & Power Co. for \$29,479.38.

The Auditor reports the following as the franchise accounts for the year 1908:

PORTLAND RAILWAY COMPANY

Amount due under provisions of Ordinances Nos. 13177 and 13089 for 1908.....	\$6,000.00
Amount paid to City Treasurer during 1908.....	6,000.00

PACIFIC STATES TELEPHONE & TELEGRAPH COMPANY

Amount due under provisions of Ordinance No. 12590 for
1908\$1,000.00
Amount paid to City Treasurer during 1908..... 1,000.00

PEOPLE'S MARKET ASSOCIATION

Amount paid under provisions of Ordinance No. 13482 during
the year 1908\$300.00
(In litigation.)

CITY MESSENGER AND DELIVERY COMPANY

Amount due under provisions of Ordinance No. 13897 for 1908.\$100.00
Amount paid to City Treasurer during 1908..... 100.00

WILLAMETTE VALLEY TRACTION COMPANY

Amount due under provisions of Ordinance No. 15428 for 1907.\$440.00
Amount due under provisions of Ordinance No. 15428 for 1908. 440.00
Amount paid to City Treasurer during 1908.....\$880.00
Amount due on account of 1908.....\$440.00

UNITED RAILWAYS COMPANY

Amount due under provisions of Ordinance No. 15427 for
1906\$ 200.00
Amount due under the provisions of Ordinance No. 15427 for
1907 1,200.00
Amount due under the provisions of Ordinance No. 15427 for
1908 1,200.00
Amount due under the provisions of Ordinance No. 14564 for
1907 500.00
Amount due under the provisions of Ordinance No. 17853 for
1908 500.00
\$3,600.00
Amount paid to City Treasurer during 1908.....\$1,400.00
Amount due on account of 1907 and 1908..... 2,200.00
\$3,600.00

HOME TELEPHONE AND TELEGRAPH COMPANY

Amount due under provisions of Ordinance No. 14699 for
1908\$1,000.00

No satisfactory report has been received from this company; the last report filed is in the hands of the City Attorney.

POLICE DEPARTMENT

This Department consists of one Chief, three Captains, one Matron, seven Detectives, nine Sergeants, three Jailers, three Desk-Men, three Drivers, one City Hall Officer, one Humane Officer, one on harbor duty, one woman and a clerk acting in an auxiliary capacity and one hundred and one patrolmen, a total of one hundred and fifty persons in all.

The work of this branch of the City Government increases each year with the growth of the City, and is greatest in the winter months. Owing to the mildness of its climate this coast has become a winter resort for large numbers of persons from sections of the country where the weather is more severe; among others the idle and criminal class also come, and for this reason there is a noticeable increase of crime during that season of the year, and the City must

cape the responsibility of caring for them, has resulted in creating a small army of wanderers who, forming an endless chain, are successively driven from one city to another with no resulting benefit to themselves or anyone else. In fact, the result is actual harm to all, for upon one hand it renders the criminal more desperate, while upon the other it outrages the honest but unfortunate working man, and almost compels him to turn his hand against society.

It does not in any way accomplish the object aimed at and merely results in a rapid exchange between cities of an equal number of criminals, more difficult to locate or to identify than they otherwise would be, who, becoming familiar with every road leading to safety, make but short stops in each one, levying as great a toll as they can exact from it while doing so.

This army of wanderers increases year by year, and if the course now being pursued is persisted in it will result in increasing evil; the method is wrong and can only result in making good men bad and bad men worse.

No city acting alone can succeed in effecting a change or putting a stop to this injustice, for should it depart from the custom it would immediately become the dumping ground for the criminals, vagrants and unemployed persons of every other city upon the coast.

Some rational plan coupled with concerted action upon the part of a confederation of all of the cities on the coast is advisable, and

PACIFIC STATES TELEPHONE & TELEGRAPH COMPANY

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 Amount paid to City Treasurer during 1908..... 1,000.00

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 (In litigation.)

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 Amount due on account of 1908\$440.00

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 Amount due on account of 1907 and 1908..... 2,200.00
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The work of this branch of the City Government increases each year with the growth of the City, and is greatest in the winter months. Owing to the mildness of its climate this coast has become a winter resort for large numbers of persons from sections of the country where the weather is more severe; among others the idle and criminal class also come, and for this reason there is a noticeable increase of crime during that season of the year, and the City must be prepared to meet the conditions.

With the approach of the winter large numbers of men with no visible means of support begin to flock into the cities in the hope of securing employment, or for other reasons, and these persons are rounded up from time to time by the Police Departments of the different cities and driven out of town. This method, which is adopted by the cities all along the coast in a selfish attempt to escape the responsibility of caring for them, has resulted in creating a small army of wanderers who, forming an endless chain, are successively driven from one city to another with no resulting benefit to themselves or anyone else. In fact, the result is actual harm to all, for upon one hand it renders the criminal more desperate, while upon the other it outrages the honest but unfortunate working man, and almost compels him to turn his hand against society.

It does not in any way accomplish the object aimed at and merely results in a rapid exchange between cities of an equal number of criminals, more difficult to locate or to identify than they otherwise would be, who, becoming familiar with every road leading to safety, make but short stops in each one, levying as great a toll as they can exact from it while doing so.

This army of wanderers increases year by year, and if the course now being pursued is persisted in it will result in increasing evil; the method is wrong and can only result in making good men bad and bad men worse.

No city acting alone can succeed in effecting a change or putting a stop to this injustice, for should it depart from the custom it would immediately become the dumping ground for the criminals, vagrants and unemployed persons of every other city upon the coast.

Some rational plan coupled with concerted action upon the part of a confederation of all of the cities on the coast is advisable, and

should be adopted and the present ineffective, expensive and dishonest system discontinued. No municipality which dodges its obligation or deals unfairly or dishonestly with its criminal or unfortunate class has a right to ask, or expect of them that they shall deal with it in a more honorable manner.

Several months ago I addressed a communication upon this subject to the mayors of a number of cities upon this coast, and from the tenor of the replies received by me I feel sure that necessity will compel the adoption of some such a plan in the near future.

Detention of Criminals

The conditions respecting the detention and care of persons at the City Jail has grown acute. The present structure when erected many years ago was designed to hold thirty-five prisoners and afford accommodation for a police force of not to exceed twenty or thirty officers.

The Police Force now consists of one hundred and fifty men, and not infrequently as many as one hundred persons under arrest are crowded into a space which in decency should be occupied by not over thirty-five. Many of these are intoxicated and the immediate results from a sanitary point of view are had in the extreme, and cast a reflection upon the good name and humanity of the City.

In addition to this the lack of room has become a condition so grave that it is a serious menace to the successful administration of the Department, for in consequence of having no space in which to do so, the police force is unable to round up and inspect criminals who are at large in the City, and these persons make use of their liberty to work evil upon the decent people of the community.

Another serious resulting effect is that destitute men not of the criminal class, seeking shelter from chill winds and wet weather, are turned back into the storm, where they must perforce either suffer or commit some crime in order to secure the price of protection from the elements.

Year by year as the City has grown larger the condition has grown worse, and the attention of the City Council has been called to the great need in this respect, but so far without avail. At last, however, a stage has been reached where by no hook or crook will it be possible to longer delay action, and an adequate jail must be immediately provided to meet the emergency.

In taking steps to relieve the situation it is vitally important that every effort should be made to provide for the care of prisoners and others under conditions which will operate to elevate rather than to degrade them, and this object must not be lost sight of. I trust, however, that the urgent need of the City in this respect will not be

taken advantage of for an extravagant expenditure of the people's money in the construction of some large and useless bastille, as every contingency can be supplied at a reasonable cost to the City.

Enforcement of Law

Within the past few months the law which forbids the existence of bawdy houses was enforced. This law had been in existence ever since the City was incorporated, but no effort had ever before been made to enforce it, and it had come to pass that many people were of the belief that it either could not be enforced, or if it were that greater evils would result than if such places were allowed to exist.

Prior to the closing of all such places they had been compelled to conduct themselves in a quiet and unobtrusive manner, and were doing less harm, perhaps, than at any time in the history of the City, but it so happened that certain persons residing in the community who in one way and another make gain from them were seized with a desire to secure a firmer hold upon the business, and they hit upon the expedient of forcing their removal from the district in which they were then located into one which more nearly met with their wishes in this respect.

The effort to do this aroused opposition from others directly concerned in the traffic, with the result that attention was attracted to the matter and a demand was made that the law forbidding such places be enforced, and this was done.

In looking the situation over at this time I do not see wherein the City has suffered in consequence in any way, and in many others conditions are better than they formerly were. For one thing, there is no "red light district" flaunting itself in the faces of decent women and young boys and girls, which is a distinct gain, and in no other respect is the condition any worse.

General and Special

The police department of a city is the one which at all times has been and will be the subject of more criticism than any other, and it may be that it is for the best that such should be the case.

The legitimate work connected with the Department is necessarily great and concerns more or less every class of persons living in the City. Properly recruited and conducted with a view only to the just enforcement of the law, it should be, and ought to be, of great value to the community. If it is interfered with, however, by having additional and unnecessary work placed upon it, its usefulness and effectiveness can be greatly curtailed, and I am of the opinion that the granting of licenses indiscriminately to all persons who apply for them makes more unnecessary work for it and is one of the greatest evils which it has to contend with.

I think that this observation will apply to all cities, and I do know that in this City many persons are granted licenses who must afterward be kept under continual police surveillance in an effort to protect innocent persons from their nefarious practices.

This should not be allowed, and no license should be issued by the City Council without a full assurance and, if necessary, a bond being required for the decent conduct of the business to which it is granted. If this were done in good faith, and the license promptly revoked and the bond forfeited at any time that just complaint was made against the conduct of such places, I venture the assertion that the work of the Police Department of this City, and the expenditure necessary to maintain it, would be reduced by one-half.

CIVIL SERVICE

The report from this Department is submitted herewith:

The employment of help for the City under Civil Service regulations is a decided improvement over that known as the "spoils" system, yet in many ways it leaves much to be desired in securing economical and effective service for the City.

There seems to have grown up with it a doctrine or "fetish" to the effect that the rights of persons employed under such regulations are superior to and greater than those of the City.

In consequence the heads of departments, however hard they may labor to secure good results or efficient service for the City for which they are held responsible, are much hampered, and at times entirely unable to do so for the reason that they cannot rid it of the barnacles which impede its progress, and all attempts in this direction are usually defeated and end in the head of the department being placed upon trial, while the riddance of the loafer, which would be a blessing, seemingly cannot be justified by any reason short of his capture red-handed in the commission of some crime.

I am of the opinion that appeals from dismissal for any cause other than political or religious reasons should not be allowed, and that no appeal of any sort should be heard by the Civil Service Commission, which is the body which creates and virtually names all of the employes of the City.

All right to consider such appeals should be attached to some other body not connected in any way with the employment of such persons. At any rate the attempt to secure effective and economical results in the City's work under the present system falls short of being the success which was to be hoped from its inauguration, but as I have already said, it is better than the "spoils" system, and with some changes in the Charter provisions along lines here suggested can be made to do good work for the City.

HEALTH DEPARTMENT

The work in this Department has greatly increased during the past year, which was due in part to the rapid growth of the City and for the reason that an earnest effort was made to place the work upon a higher plane of efficiency.

For many years it has been the custom to meet conditions as they arose, whereas an attempt is now being made to forestall them as nearly as it is possible to accomplish such result with the means provided to do so.

By the adoption of a partial system of school inspection and checking up of cases of diphtheria by means of culture tests much good has been accomplished, and if the plan could be carried out in full and in detail it would result in the saving of many lives.

The extreme low death rate of the City with the comparatively small sums of money expended in the maintenance of this Department speaks well for the character of the work which is being done and the conditions of climate and soil which exert such a beneficent influence upon the health of the community.

The imperative need for some means by which garbage may be destroyed cannot longer be overlooked.

The old and worn out plant now in operation is entirely unable to take care of more than one-fourth of the material which should be destroyed each day.

In justice to the plant, however, it must be said that it does better than could be expected of it, although the cost of its operation is out of proportion to the value of its service.

A new plant of higher efficiency and with a capacity at least four times as great should be provided for at once.

WATER DEPARTMENT

The report from this Department is submitted herewith and gives in detail the work which has been done during the year.

The work connected with the new pipe line to be installed from the headworks and the construction of the large reservoirs designed to be built this year will not be completed any too soon to meet the urgent needs due to the rapid growth of the City.

During the year, owing to legal complications which arose concerning water rights, it became necessary to arrange with a railway corporation to recover for the City its right to a full supply of water from the Bull Run River. It is to be hoped that the question as to the right of the City to use water from its present source of supply is now definitely settled, and that in the future it will not again become imperiled.

CITY ENGINEER'S DEPARTMENT

The report from this Department gives in detail the large amount of work which it has been called upon to perform during the past twelve months.

As a general rule the cost and delay incident to street work which is assumed by the property owner is out of proportion to the character and value of such work after it is completed. This should not be and is due in a large measure to careless and hasty work and out of date methods employed in the use of materials, and to a failure upon the part of the City's representatives to insist upon a rigid and faithful performance of contracts, and the result is to be seen in work of an inferior quality in many places about the City, for the existence of which there is no just excuse. To remedy these conditions is not so easy as a person not familiar with the subject might assume; however, a start has been made in this direction and it is to be hoped that in the future better results may be obtained. The people of the City suffer great loss from not being in possession of the machinery and material necessary to properly carry on such work, as it would serve to act as a check where undue prices are being asked by others.

While there is no way of determining the cost of work done during the year under the present system, the Auditor reports the amount paid in during the year for street and sewer work under contracts completed and accepted as \$1,625,511.15, and the City Engineer reports the contract price for street and sewer work contracted for during the year and not yet accepted as \$1,204,796.00, and it is safe to say that more than three and a quarter millions of dollars have been expended during the year 1908 under the supervision of this Department in the improvement of streets and construction of sewers, and in addition thereto over one hundred and fifty thousand dollars (\$150,000.00) in the construction of bridges.

STREET CLEANING AND SPRINKLING DEPARTMENT

A report from this Department will show the great increase of work undertaken during the year 1908 and the still larger amount which will have to be done during 1909.

Nothing indicates the degree of civic pride possessed by a city more accurately than the condition in which it keeps its public thoroughfares. In this respect this City has greatly advanced in the past few years. With a large additional mileage of street surface to clean and sprinkle during the coming year it will be necessary to provide a large amount of new and improved means to do so.

PLUMBING INSPECTION

There has been a great increase in the work of this Department owing to the many buildings of all kinds which have been constructed during the year.

The laws of the City governing the methods to be employed in regard to plumbing and the means of their enforcement are so cumbersome that it is impossible to secure the results which the community owes to itself.

The effects which will result to the City from the present ineffective methods are matters which will become apparent a few years later in its history.

I would therefore urge that a careful review of the situation be undertaken by you and that such laws be adopted as will provide for better and more sanitary methods; the regulation of this important part of this Department is submitted for your consideration.

HARBOR MASTER'S DEPARTMENT

The report from this Department is an index relating to shipping of this port and such work is receiving more attention than has heretofore been the custom.

PUBLIC LIGHTING

In respect to this important subject I have to say that as nearly as I can ascertain the City is paying too much for its public lighting and more than such service is worth.

Early in the year I became convinced that the lighting company was overcharging the City for this service, and acting in its behalf, as I felt it to be my duty to do, I refused to pay their bills in the amount claimed by them and set out to ascertain the facts in the matter, as I believed that the City in justice had the right and that it was proper for it to know them.

The lighting company was in possession of these facts, and all of them, and could have shown what they were at any time had it wished to do so; upon interrogation, however, the officials of that company whom I subpoenaed refused while under oath to make any statement upon which could be based a calculation which would show what the actual conditions were.

It seemed to me that if the lighting company was fulfilling its contract in good faith that it had nothing to conceal, and not only would not refuse to furnish the information sought but would do so cheerfully.

Failing to secure the necessary information from it the Executive Board and myself were compelled to look elsewhere, and did so, and

have retained nine twenty-fifths of the company's bills each month as a just and reasonable amount to be deducted for overcharges. The attitude of the company at all times has been to compel the City to accept its terms without question.

Early in the year the City Council authorized a contract to be entered into by the Executive Board for a period of either three or five years from January 1st, 1909, for Public Lighting, and tenders were advertised for upon such specifications as would definitely specify the kind of service the City was to receive for its expenditure for that purpose. In reply it has received tenders from but one bidder (the old company), it being the only concern in a position to supply light at this time. The bids received from it were for the longer term of five years only, and the specifications submitted were drawn in such a manner as to leave the character of the service entirely in its hands, and at a price too great for the service to be rendered, and up until this time the bids have not been accepted.

The lighting company in its tenders refuses to consider any other than its own terms regarding the specifications, the price to be paid, or the length of time such contract shall run, and in addition demands that the City shall make all installations over six hundred feet in length, and threatens to turn off the lights on the 10th of this month if it does not pay all moneys retained as overcharges if it does not accept such terms.

A few days ago the lighting company made a proposition to the City Council through the Light Committee of that body in which it modified its original terms somewhat, making a rate of about \$58.00 for arc lamps with overhead wire service and \$72.00 for such lamps as were supplied through underground conduits, provided that the City shall first pay all back payments which were withheld as overcharges.

Under the terms (which are aside from its tender to the Executive Board) there is a lowering of rates for arc lamps supplied from overhead wires of about \$5.00 per year, but there remains the increase of about \$10.00 for those supplied from wires placed underground, and as in its regular bid the City would still have to pay for all installations of new lamps exceeding six hundred feet in length.

An analysis of these terms show that in asking an extra price from the City for the lamps supplied through underground conduits the lighting company in effect is assessing the City a fine for having compelled it to place its wires underground, which was done as a measure of urgent necessity for the safety of the general public.

Extension of service greater than six hundred feet, and the greater expenditure will be for this purpose, owing to the new territory recently added to the City and the widely separated and num-

erous additions already in existence, would become the property of the lighting company after the City had paid the said corporation its own price for their installation. A continuation of such a plan as this, if the City should agree to it, would in the long run result in the City presenting to the lighting company the most expensive portion of its entire distribution system, the lack of justice and equity attached to which sort of a bargain must be apparent to everyone. If the City should agree to such terms it would not be long before it would be tied hand and foot, and the lighting company would be in a position not only to laugh at any and all protests upon the part of the City against unjust or overcharges made for lighting, but also to defy competition from every source for all time to come.

PARK DEPARTMENT

The work of this Department during the year has been carried on with a view to meeting the conditions which will arise when the new and enlarged system is entered upon during the year 1909.

Bonds to the amount of five hundred thousand (\$500,000.00) dollars have been issued and sold to provide for the extension of the system and purchase of land for the purpose should be made as soon as possible.

The report of the Park Keeper, giving a detailed account of the work done during the year, is submitted herewith.

INSPECTION OF BUILDINGS

The report of this Department shows the rapid growth of the City better than any other evidence which could be submitted.

The importance of adopting regulations concerning the construction of buildings of a character which will render them as nearly safe for the occupants and at as small a risk to adjoining buildings as is possible should not be overlooked.

No city can make gains of any permanent value which for purposes of temporary expediency allows a class of buildings to be constructed which immediately become a risk to life and property, and it is but the part of wisdom and economy to demand that no structure shall be erected which in the nature of construction is a source of peril or loss to the community.

POUND DEPARTMENT

The report from this Department will give in detail the work done by it during the year and is submitted herewith.

FRANCHISES

There is a provision (Section 151) of the City Charter which requires the Mayor to cause an investigation of all franchises granted to the City and report upon the respective rights and obligations of the parties and the performance of the same.

In respect to this I have to say that another section of the Charter (106) provides that nothing contained in the Charter shall affect the validity of any franchise, right or privilege in actual use or enjoyment given or granted before the Charter became a law.

Acting under the rights conferred upon them by this latter provision all of the holders of franchises who obtained their grants prior to the adoption of the present Charter, with the exception of one, have refused to file any statements or reports upon which to base a report, and for this reason it is impossible for the Mayor to make any report of value concerning them.

In respect to those franchises and gifts which have been granted since I have been Mayor I have to say that all of them which contained provisions which were inimical to the interests of the City (which I was able to detect), and there were many, I vetoed, and I would respectfully refer you to my message accompanying such vetoes for information respecting the reasons why they should be repealed.

Some months ago I appointed a committee from the Council to investigate this subject, and they, under the restrictions placed upon them by Section 106 of the Charter, have, I presume, likewise been baffled in securing information which would be of any value to the City, and have recommended the repeal of the franchise of but one company, which matter has been referred by me to the City Attorney with a request that he begin proceedings looking to the revocation of its grant.

This is rather small game, to be sure, yet as the Charter now reads there is but little which the City can do to protect its citizens and others from being imposed on in various ways, such as inefficient service and the extortion of money to meet the payment of dividends upon watered stock and such like abuses of the privileges granted by the City.

A change in the Charter compelling the filing of truthful and complete reports from all holders of franchises, with the right of the City to change or revoke such franchise at any time that they are conducted in a manner which is unfair or inimical to the interests of the City, is one which is much needed.

As matters now stand anyone who before the present Charter went into effect succeeded in grabbing rights from the City is in a position to hold them, and it is as helpless as a child to recover them.

FIRE DEPARTMENT

The report from this, the largest Department in the City, is herewith submitted, a perusal of which will show the work performed by it in detail.

Some question has been raised concerning the business methods employed by this Department and at this time an investigation is being held to ascertain what the facts may be, it being considered but a matter of justice to it that they should be thoroughly gone into.

This Department has paid for salaries during the year, as fixed by City ordinances, \$281,043.47. The running expenses of the Department for the year were \$52,549.41; new material for the fire alarm and telephone system, \$8,587.35; city lots for additional engine houses, \$17,600.00; new material for the fire department, \$8,291.00, making the total expense of this Department for the year \$367,871.23. The equipment of this Department consists of fourteen steam fire engine companies, manned by one hundred and sixteen men; with three engines in reserve; three chemical companies, manned by nine men; five hose companies, manned by thirty men; five hook and ladder companies, manned by forty-two men; fire boat company and hose wagon, manned by nineteen men, making a total of two hundred and thirty-five men.

FREE LABOR BUREAU

The amendment to the City Charter providing for the establishment of a Free Labor Bureau, which was defeated in one of the lower courts and was afterward appealed to and declared valid by the Supreme Court of the State, and the law is now in force.

The Commission, consisting of A. G. Rushlight, a member of the City Council; J. L. Ledwidge, a member of the Central Labor Council, and R. J. Holmes, a member of the Manufacturers' Association, were appointed members of this Bureau and are at this time engaged in forming a working organization.

It is hoped that this will soon be completed and that the beneficial results expected from it will be realized.

IN GENERAL

The growth of the City in the past year is unprecedented in its history. In addition to this its material prosperity has been great and the health of its inhabitants good. It has also closed its fiscal year with money left on hand in every fund and in every way it has much for which to be thankful.

With thanks to all for courtesies extended, I am,

Respectfully,
HARRY LANE, Mayor.

ANNUAL REPORT

—OF—

A. L. Barbur, Auditor of the City of Portland for the year ending December 31, 1908

	Balance Dec. 31, 1907.	Received by transfer.	Receipts.	Disbursements.	Disbursed by transfer	Balance Dec. 31, 1908.	Warr'ts out Dec. 31, '07.	Warrants drawn.	Warrants paid.	Warr'ts out Dec. 31, '08.	Warrants canceled
1 General Fund	\$167,312.61	\$ 3,900.00	\$ 577,655.82	\$ 433,100.63	\$106,909	\$ 208,858.80	\$ 29,567.25	\$ 440,674.27	\$ 433,100.63	\$ 36,572.16	\$ 354.73
2 Fire Department fund	84,140.96	11,511.15	336,566.89	375,567.82	.....	56,651.18	38,52.12	368,316.72	375,567.82	32,098.52	2.50
3 Police Department fund	48,170.13	27,525.00	134,759.69	192,371.67	.....	18,083.15	14,98.28	194,852.41	192,371.67	17,258.87	20.15
4 Bonded Indebtedness Interest fund.....	26,552.04	29,100.00	112,794.94	86,630.00	.....	12,550.00	.....	145.00	.....	.....	.....
5 Chemical National Bank of N. Y.....	16,800.00	33,400.00	.....	37,650.00	.....	1,500.00	.....	.....	.....	.....	.....
6 Chase National Bank of N. Y.....	120.00	3,000.00	.....	1,620.00	.....	300.00	.....	.....	.....	.....	.....
7 N. W. Harris & Co., of N. Y.....	390.00	15,000.00	.....	15,090.00	.....	.....	.....	.....	.....	.....	.....
8 Blair & Co. of N. Y.....	.....	600.00	.....	600.00	.....	52,400.63	.....	78,157.38	56,558.76	16,113.11	3,483.21
9 Lighting fund	8,980.05	5,800.00	94,179.34	56,558.76	.....	14,421.08	871.01	96,517.52	95,504.36	9,683.92	23
10 Street Repair fund	10,175.93	14,300.00	85,449.51	95,504.36	.....	.....	.....	21,144.90	21,144.90	.....	.....
11 Public Library fund .....	.....	.....	21,144.90	21,144.90	.....	23,914.86	343.81	55,541.81	54,702.18	4,548.74	234.70
12 Park fund	10,880.92	8,558.00	59,178.12	54,702.18	.....	138,095.31	37,01.84	269,607.37	286,116.87	21,192.09	23
13 Water fund	40,944.18	.....	543,268.00	286,116.87	160,000	72,625.00	.....	.....	.....	.....	.....
14 Water Bonds Interest fund.....	72,825.00	145,000.00	.....	145,209.00	.....	124.90	.....	87,460.74	87,460.74	.....	.....
15 Water Bond Sinking fund.....	11.04	.....	87,574.60	87,460.74	.....	100,838.88	.....	21.54	21.54	.....	.....
\$16 Improvement fund	129,781.23	.....	9,912.30	38,854.65	.....	8,439.45	.....	51,388.46	51,388.46	.....	.....
17 Improvement Bond Sinking fund.....	24,188.84	.....	172,104.18	187,853.57	.....	6,781.37	.....	236.24	236.24	.....	.....
18 Improvement Bond Interest fund.....	5,832.01	19,000.00	41,469.13	59,519.77	.....	1,355.76	.....	54.23	54.23	.....	.....
19 Street and Sewer Interest fund.....	2,040.13	5,000.00	5,854.32	11,538.69	.....	2,889.53	.....	.....	.....	.....	.....
20 General fund and redemption of warrants.	2,889.53	.....	.....	.....	.....	31.98	25.48	.....	.....	25.48	.....
21 Fund for repairs to streets and bridges..	31.98	.....	.....	.....	.....	2,244.60	52.01	6,862.18	6,789.19	125.00	.....
22 Police and Fire Department Relief fund..	5,132.39	.....	3,901.40	6,789.19	.....	174.38	75.22	4,392.56	4,390.18	77.60	.....
23 Redemption fund	75.22	.....	4,489.34	4,390.18	.....	94.00	.....	.....	.....	.....	.....
24 Bill Posting Badge fund	85.00	.....	41.00	32.00	.....	33,042.43	19,150.00	61,748.75	80,898.75	.....	.....
25 Special Bridge fund	472.51	.....	117,815.33	81,345.41	3,900	75,269.45	199,700.23	1,913,199.96	1,517,573.05	432,209.74	163,117.40
26 Street Improvement funds	35,192.13	528.40	1,557,121.97	1,517,573.05	.....	1,068.73	15,36.80	118,211.94	107,938.10	24,527.20	1,283.44
27 Sewer funds	1,960.14	300.90	106,745.79	107,938.10	.....	15,803.80	2,44.18	17,571.49	13,499.97	6,498.95	16.73
28 Street Extension funds	4,056.92	285.55	24,961.30	13,499.97	.....	1,000.00	.....	.....	.....	.....	.....
*29 Mt. Hood Electric Co. Deposit fund.....	1,000.00	.....	.....	.....	.....	510,945.00	.....	.....	.....	.....	.....
30 Park and Boulevard fund.....	.....	.....	510,945.00	.....	.....	.....	.....	1,056.24	1,056.24	.....	.....
†31 Morrison Street Bridge fund.....	1,056.24	.....	.....	1,056.24	.....	1,000.00	.....	.....	.....	.....	.....
‡32 Port. Ry. Light & Power Co. Deposit fund	.....	.....	1,000.00	.....	.....	.....	.....	1,000.00	1,000.00	.....	.....
33 Cascade Power Co. Deposit fund.....	1,000.00	.....	.....	1,000.00	.....	.....	.....	.....	.....	.....	.....
Totals	\$702,097.13	\$322,809.00	\$4,608,932.87	\$3,920,708.75	\$322,809	\$1,390,321.25	\$370,808.23	\$3,788,161.71	\$3,387,518.88	\$600,931.38	\$170,519.68

* Bonds deposited with City Treasurer to comply with provisions of ordinance granting franchise.

§ Of this balance, the sum of \$98,705.05 is deposited in Ladd & Tilton's Bank on certificate of deposit.

† Tbis amount was ordered placed to the credit of the Bonded Indebtedness Interest Fund as authorized by law.

‡ Deposited on account of underground wire system.

Bonds on account of Improvement Bond sinking fund investments in custody of City Treasurer..... 51,388.46
 Bonds on account of Police and Fire Relief fund investments in custody of City Treasurer..... 4,000.00
 Bonds on account of Water Bond sinking fund investments in custody of Water Board \$159,851.53

ANNUAL REPORT

—OF—

A. L. Barbur, Auditor of the City of Portland for the year ending December 31, 1908

		Balance Dec. 31, 1907.	Received by transfer.	Receipts.	Disbursements.	Disbursed by transfer	Balance Dec. 31, 1908.	Warr'ts out Dec. 31, '07.	Warrants drawn.	Warrants paid.	Warr'ts out Dec. 31, '08.	Warrants cancelled.
1	General Fund	\$167,312.61	\$ 3,900.00	\$ 577,655.82	\$ 433,100.63	\$106,909	\$ 208,858.80	\$ 29,357.25	\$ 440,674.27	\$ 433,100.63	\$ 36,572.16	\$ 328.73
2	Fire Department fund	84,140.96	11,511.15	336,566.89	375,567.82	.....	56,651.18	39,352.12	368,316.72	375,567.82	32,098.52	2.80
3	Police Department fund	48,170.13	27,525.00	134,759.69	192,371.67	.....	18,083.15	14,798.28	194,852.41	192,371.67	17,258.87	20.35
4	Bonded Indebtedness Interest fund.....	26,552.04	29,100.00	112,794.94	86,630.00	52,000	29,816.98	.....	145.00	145.00	.....	.....
5	Chemical National Bank of N. Y.....	16,800.00	33,400.00	.....	37,650.00	.....	12,550.00	.....	.....	.....	.....	.....
6	Chase National Bank of N. Y.....	120.00	3,000.00	.....	1,620.00	.....	1,500.00	.....	.....	.....	.....	.....
7	N. W. Harris & Co., of N. Y.....	390.00	15,000.00	.....	15,090.00	.....	300.00	.....	.....	.....	.....	.....
8	Blair & Co. of N. Y.....	.....	600.00	.....	600.00	.....	.....	.....	.....	.....	.....	.....
9	Lighting fund	8,980.05	5,800.00	94,179.34	56,558.76	.....	52,400.63	.....	78,157.38	56,558.76	16,113.11	3,402.31
10	Street Repair fund	10,175.93	14,300.00	85,449.51	95,504.36	.....	14,421.08	8,671.01	96,517.52	95,504.36	9,683.92	.38
11	Public Library fund .....	.....	.....	21,144.90	21,144.90	.....	.....	3,943.81	21,144.90	21,144.90	.....	.....
12	Park fund	10,880.92	8,558.00	59,178.12	54,722.18	.....	23,914.86	.....	55,541.81	54,702.18	4,548.74	254.70
13	Water fund	40,944.18	.....	543,268.00	286,116.87	160,000	138,095.31	37,701.84	269,607.37	286,116.87	21,192.09	.38
14	Water Bonds Interest fund.....	72,825.00	145,000.00	.....	145,200.00	.....	72,625.00	.....	.....	.....	.....	.....
15	Water Bond Sinking fund.....	11.04	.....	87,574.60	87,460.74	.....	124.90	.....	87,460.74	87,460.74	.....	.....
\$16	Improvement fund	129,781.23	.....	9,912.30	38,854.65	.....	100,838.88	.....	21.54	21.54	.....	.....
17	Improvement Bond Sinking fund.....	24,188.84	.....	172,104.18	187,853.57	.....	8,439.45	.....	51,388.46	51,388.46	.....	.....
18	Improvement Bond Interest fund.....	5,832.01	19,000.00	41,469.13	59,519.77	.....	6,781.37	.....	236.24	236.24	.....	.....
19	Street and Sewer Interest fund.....	2,040.13	5,000.00	5,854.32	11,538.69	.....	1,355.76	.....	54.23	54.23	.....	.....
20	General fund and redemption of warrants.	2,889.53	.....	.....	.....	.....	2,889.53	.....	.....	.....	.....	.....
21	Fund for repairs to streets and bridges..	31.98	.....	.....	.....	.....	31.98	25.48	.....	.....	.....	.....
22	Police and Fire Department Relief fund..	5,132.39	.....	3,901.40	6,789.19	.....	2,244.60	52.01	6,862.18	6,789.19	25.48	.....
23	Redemption fund	75.22	.....	4,489.34	4,390.18	.....	174.38	75.22	4,392.56	4,390.18	125.00	.....
24	Bill Posting Badge fund	85.00	.....	41.00	32.00	.....	94.00	.....	.....	.....	77.60	.....
25	Special Bridge fund	472.51	.....	117,815.33	81,345.41	3,900	33,042.43	19,150.00	61,748.75	80,898.75	.....	.....
26	Street Improvement funds	35,192.13	528.40	1,557,121.97	1,517,573.05	.....	75,269.45	199,700.23	1,913,199.96	1,517,573.05	432,209.74	.....
27	Sewer funds	1,960.14	300.90	106,745.79	107,938.10	.....	1,068.73	15,536.80	118,211.94	107,938.10	24,527.20	361,527.40
28	Street Extension funds	4,056.92	285.55	24,961.30	13,499.97	.....	15,803.80	2,444.18	17,571.49	13,499.97	6,498.95	1,502.44
*29	Mt. Hood Electric Co. Deposit fund.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....	.....	.....	24.75
30	Park and Boulevard fund.....	.....	.....	510,945.00	.....	.....	510,945.00	.....	.....	.....	.....	.....
†31	Morrison Street Bridge fund.....	1,056.24	.....	.....	1,056.24	.....	.....	.....	1,056.24	1,056.24	.....	.....
‡32	Port. Ry. Light & Power Co. Deposit fun	.....	.....	1,000.00	.....	.....	1,000.00	.....	.....	.....	.....	.....
33	Cascade Power Co. Deposit fund.....	1,000.00	.....	.....	1,000.00	.....	.....	.....	1,000.00	1,000.00	.....	.....
	Totals	\$702,097.13	\$322,809.00	\$4,608,932.87	\$3,920,708.75	\$322,809	\$1,390,321.25	\$370,808.23	\$3,788,161.71	\$3,387,518.55	\$600,931.38	\$170,522.85

* Bonds deposited with City Treasurer to comply with provisions of ordinance granting franchise.

§ Of this balance, the sum of \$98,705.05 is deposited in Ladd & Tilton's Bank on certificate of deposit.

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‡ Deposited on account of underground wire system.

Bonds on account of Improvement Bond sinking fund investments in custody of City Treasurer..... 51,388.46
 Bonds on account of Police and Fire Relief fund investments in custody of City Treasurer..... 4,000.00
 Bonds on account of Water Bond sinking fund investments in custody of Water Board\$159,851.53

DETAILED STATEMENT OF RECEIPTS AND DISBURSEMENTS, DECEMBER 31, 1908

GENERAL FUND

Receipts:

Liquor licenses	\$ 367,425.00
General business licenses.....	42,285.01
Dog licenses	5,774.00
Municipal Court fines and costs.....	26,340.00
Pound fees	1,458.15
Franchises—Willamette Valley Traction Co.	440.00
The People's Market Association.....	300.00
United Railways Co.	1,400.00
Pacific States Telephone & Telegraph Co..	1,000.00
City Messenger & Delivery Co.....	100.00
Portland Railway, Light & Power Co.....	6,000.00
Rents, City Hall.....	1,222.00
Transfer of licenses.....	3,060.00
Miscellaneous costs, street improvements.....	723.20
Building permits	6,995.00
Death certificates	53.00
Interest on deposits	14,674.29
Costs engineering, inspection and advertising.....	76,736.37
Certified copy	94.75
Building ordinances	17.00
Use of road rollers.....	2.25
Plumbers certificates	330.00
Premium on improvement bonds.....	16,663.09
Delinquent tax	343.41
Removal of dead animals.....	561.00
Applications for auto licenses.....	555.00
Auto examinations	732.00
Sale of Police Department horses.....	89.00
W. Hey, inspector of plumbing, witness fees.....	1.65
Portland & Seattle Ry. Co., repairs to Tanner Creek sewer.	1,269.00
Portland & Seattle Ry. Co., repairs to Tanner Creek sewer.	370.00
Costs of inspection Miller & Bauer.....	75.00
Sale of carpets and linoleum.....	28.00

Health Officer, Oregon City smallpox patient.....	230.00
Codified ordinances	15.00
License for sign.....	15.00
City Attorney—McKenna vs. City.....	97.00
Donovan vs. City.....	5.00
County Clerk—City vs. M. Schussel.....	10.00
City vs. Jas. Russell.....	35.00
City vs. N. Batluk.....	60.00
City vs. Geo. Watson.....	5.00
License Country Club.....	1.00
F. D. Vogler, redemption of property.....	10.90
Refund safety deposit vault key.....	1.00
Antitoxine for U. S. Navy.....	3.00
License tags	.75
Street Cleaning Department, sale of sacks.....	50.00
Transfer from Special Bridge fund.....	3,900.00
	<u>\$ 581,555.82</u>

Disbursements:	
Transfer to Fire Department fund.....	\$ 11,511.15
Transfer to Police Department fund.....	27,525.00
Transfer to lighting fund	5,800.00
Transfer to street repair fund.....	14,300.00
Transfer to street and sewer interest fund.....	5,000.00
Transfer to improvement bond interest fund.....	19,000.00
Transfer to fund for improvement of Front at Wood....	5.85
Transfer to fund for improvement of Seventeenth street..	31.90
Transfer to fund for improvement of Front street at Lane	8.90
Transfer to fund for improvement of Van Houten street.	331.62
Transfer to fund for improvement of Hood street.....	1.16
Transfer to fund for improvement of Emerson street....	3.42
Transfer to fund for improvement of Corbett street.....	5.65
Transfer to fund for improvement of Front street.....	135.90
Transfer to fund for extension of East Nineteenth street.	113.60
Transfer to fund for improvement of First street.....	4.00
Transfer to fund for improvement of Virginia street....	105.00
Transfer to fund for extension of East Fourteenth street.	1.50
Transfer to fund for extension of East Seventh street....	65.45
Transfer to park fund	8,558.00
Transfer to bonded indebtedness interest fund.....	14,100.00
Transfer to Irvington district sewer.....	300.90
	<u>\$ 106,909.00</u>
Warrants paid and returned.....	433,100.63
	<u>\$ 540,009.63</u>

FIRE DEPARTMENT FUND

Receipts:	
City taxes, 1908.....	\$ 335,041.93
Delinquent taxes	1,522.32
Transfer from general fund.....	11,511.15
Delinquent tax fire boat.....	2.64
	<u>\$ 348,078.04</u>

Disbursements:	
Warrants paid and returned.....	\$ 375,567.82

POLICE DEPARTMENT FUND

Receipts:	
City taxes, 1908.....	\$ 134,016.78
Delinquent taxes	742.71
Transfer from general fund.....	27,525.00
Refund by E. L. Crate.....	.20
	<u>\$ 162,284.69</u>

Disbursements:	
Warrants paid and returned.....	\$ 192,371.67

BONDED INDEBTEDNESS INTEREST FUND

Receipts:	
City taxes, 1908.....	\$ 95,726.29
Delinquent taxes	482.18
Transfer from water fund.....	15,000.00
Transfer from general fund.....	14,100.00
Balance Morrison Street bridge fund.....	1,056.24
Crossing Morrison Street bridge P. R. L. & P. Co.....	13,863.57
Accrued interest on park and boulevard bonds.....	1,666.66
	<u>\$ 141,894.94</u>

Disbursements:	
Warrants paid and returned.....	\$ 145.00
Coupons paid and returned.....	86,485.00
Transferred to New York accounts:	
Chemical National Bank.....	33,400.00
Chase National Bank.....	3,000.00
N. W. Harris & Co.....	15,000.00
Blair & Co.....	600.00
	<u>\$ 138,630.00</u>

CHEMICAL NATIONAL BANK, NEW YORK

Receipts:	
Transfer from bonded indebtedness interest fund.....	\$ 33,400.00
	<u>\$ 33,400.00</u>

Disbursements:	
Coupons paid and returned.....	\$ 37,650.00
	<u>\$ 37,650.00</u>

CHASE NATIONAL BANK, NEW YORK

Receipts:	
Transfer from bonded indebtedness interest fund.....	\$ 3,000.00
	<u>\$ 3,000.00</u>
Disbursements:	
Coupons paid and returned.....	\$ 1,620.00
	<u>\$ 1,620.00</u>

N. W. HARRIS & CO., NEW YORK

Receipts:	
Transfer from bonded indebtedness interest fund.....	\$ 15,000.00
	<u>\$ 15,000.00</u>
Disbursements:	
Coupons paid and returned.....	\$ 15,090.00
	<u>\$ 15,090.00</u>

BLAIR & CO., NEW YORK

Receipts:	
Transfer from bonded indebtedness interest fund.....	\$ 600.00
	<u>\$ 600.00</u>
Disbursements:	
Coupons paid and returned.....	\$ 600.00
	<u>\$ 600.00</u>

LIGHTING FUND

Receipts:	
City taxes, 1908.....	\$ 93,811.71
Delinquent taxes	367.63
Transferred from general fund.....	5,800.00
	<u>\$ 99,979.34</u>
Disbursements:	
Warrants paid and returned.....	\$ 56,558.76
	<u>\$ 56,558.76</u>

STREET REPAIR FUND

Receipts:	
City Taxes, 1908.....	\$ 47,875.79
Delinquent taxes	208.94
Vehicle licenses	31,238.30
Assessments collected for repair of sidewalks.....	6,126.48
Transfer from general fund.....	14,300.00
	<u>\$ 99,749.51</u>
Disbursements:	
Warrants paid and returned.....	\$ 95,504.36
	<u>\$ 95,504.36</u>

PUBLIC LIBRARY FUND

Receipts:	
City taxes, 1908.....	\$ 21,059.75
Delinquent taxes	85.15
	<u>\$ 21,144.90</u>
Disbursements:	
Warrants paid and returned.....	\$ 21,144.90
	<u>\$ 21,144.90</u>

PARK FUND

Receipts:	
City taxes, 1908.....	\$ 57,435.76
Delinquent taxes	197.56
Sale of animals.....	74.80
Transfer from general fund.....	8,558.00
Concessions City Park.....	350.00
Public baths	120.00
Donation Portland Railway, Light & Power Co.....	1,000.00
	<u>\$ 67,736.12</u>
Disbursements:	
Warrants paid and returned.....	\$ 54,702.18
	<u>\$ 54,702.18</u>

WATER FUND

Receipts:	
Water collections	\$ 543,268.00
	<u>\$ 543,268.00</u>

Disbursements:

Transfer to bonded indebtedness interest fund to pay interest on East Portland water bonds.....	\$ 15,000.00
Transfer to water bond interest fund to pay interest on Portland water bonds.....	145,000.00
Warrants paid and returned.....	286,116.87
	<u>\$ 446,116.87</u>

WATER BOND INTEREST FUND

Receipts:

Transfer from water fund.....	\$ 145,000.00
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Disbursements:

Coupons paid and returned.....	\$ 145,200.00
	<u>\$ 145,200.00</u>

WATER BOND SINKING FUND

Receipts:

Water collections	\$ 63,000.00
Interest on water bond sinking fund investments.....	5,163.41
Improvement bonds matured.....	19,411.19

Disbursements:

Warrants paid and returned.....	\$ 87,574.60
	<u>\$ 87,460.74</u>
	\$ 87,460.74

MORRISON BRIDGE FUND

Disbursements:

Transfer to bonded indebtedness interest fund as provided by law.....	\$ 1,056.24
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IMPROVEMENT FUND

Receipts:

Bonded liens	\$ 9,912.30
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Disbursements:

Bonds redeemed	\$ 38,833.11
Refund of assessment paid.....	21.54
	<u>\$ 38,854.65</u>

IMPROVEMENT BOND SINKING FUND

Receipts:

Bonded liens	\$ 172,104.18
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Disbursements:

Bonds redeemed	\$ 136,465.11
Improvement bonds purchased by city.....	51,388.46
	<u>\$ 187,853.57</u>

IMPROVEMENT BOND INTEREST FUND

Receipts:

Interest on bonded liens.....	\$ 35,733.97
Interest on certificates of deposit.....	5,735.16
Transfer from general fund.....	19,000.00

\$ 60,469.13

Disbursements:

Improvement bond coupons paid and returned.....	\$ 59,283.53
Payment of accrued interest on bonds purchased by city..	234.30
Refund of interest paid.....	1.94

\$ 59,519.77

STREET AND SEWER INTEREST FUND

Receipts:

Interest on street and sewer assessments.....	\$ 1,938.87
Accrued interest on bonds.....	3,915.45
Transfer from general fund.....	5,000.00

\$ 10,854.32

Disbursements:

Interest paid by Treasurer on street improvement and sewer warrants	\$ 11,484.46
Warrants paid	54.23

\$ 11,538.69

POLICE AND FIRE DEPARTMENT RELIEF FUND

Receipts:

Dues	\$ 3,099.65
Capture of deserters	68.95

Donations—

Mr. Levy	1.00
A. J. Harper.....	25.00
W. J. Van Schuyver.....	100.00
David Campbell	5.90

Woodard-Clarke	10.00
Scottish Rite Masons.....	5.00
Mrs. M. L. Hunt.....	25.00
H. Weinhard estate.....	100.00
Oregon Hotel	50.00

Sale of junk at police station.....	\$ 321.90
Fines and witness fees.....	\$ 93.80
	317.10

Disbursements:	\$ 3,901.40
Warrants paid and returned	
Benefits	\$ 2,655.86
Improvement bonds purchased.....	4,133.33
	\$ 6,789.19

REDEMPTION FUND

Receipts:	
Redemption of property.....	\$ 4,489.34

Disbursements:	\$ 4,489.34
Warrants paid and returned.....	\$ 4,390.18
	\$ 4,390.18

BILL POSTING BADGE FUND

Receipts:	
Sale of badges.....	\$ 41.00

Disbursements:	\$ 41.00
Badges redeemed	\$ 32.00
	\$ 32.00

SPECIAL BRIDGE FUND

Receipts:	
City taxes, 1908.....	\$ 95,726.28
Delinquent taxes	339.77
Sale of bonds.....	21,749.28

Disbursements:	\$ 117,815.33
Warrants paid and returned.....	\$ 80,898.75
Interest paid on warrants.....	446.66
Transferred to general fund.....	3,900.00
	\$ 85,245.41

STREET IMPROVEMENT FUNDS

Receipts:	
Street improvement assessments.....	\$1,557,121.97
Transfer from general fund.....	528.40
	\$1,557,650.37
Disbursements:	
Warrants paid and returned.....	\$1,517,573.05
	\$1,517,573.05

SEWER FUNDS

Receipts:	
Sewer assessments	\$ 106,745.79
Transfer from general fund.....	300.90
	\$ 107,046.69
Disbursements:	
Warrants paid and returned.....	\$ 107,938.10
	\$ 107,938.10

STREET EXTENSION FUNDS

Receipts:	
Assessment for opening streets.....	\$ 24,961.30
Transfer from general fund.....	285.55
	\$ 25,246.85
Disbursements:	
Warrants paid and returned.....	\$ 13,499.97
	\$ 13,499.97

CASCADE POWER COMPANY DEPOSIT FUND

Disbursements:	
Warrants paid and returned (franchise revoked).....	\$ 1,000.00
	\$ 1,000.00

PARK AND BOULEVARD FUND

Receipts from sale of bonds.....	\$ 510,945.00
	\$ 510,945.00

PORTLAND RAILWAY, LIGHT & POWER COMPANY DEPOSIT FUND

Receipts:	
Deposited to secure repair of streets.....	\$ 1,000.00
	\$ 1,000.00

**STATEMENT OF APPROPRIATIONS AND OF DEMANDS
APPROVED, AUDITED AND BONDS REDEEMED AND
INTEREST PAID, EXCEPT FOR STREET IMPROVE-
MENTS, STREET EXTENSIONS AND SEWERS**

GENERAL FUND

Auditor's Department—

Appropriation Ordinance No. 17396.....	\$ 30,000.00
Appropriation Ordinance No. 17435.....	550.00
Appropriation Ordinance No. 17505.....	275.00
Appropriation Ordinance No. 18441.....	400.00

\$ 31,225.00

Claims audited and warrants drawn:

Salary city auditor	\$ 3,000.00
Salary chief deputy	2,400.00
Salary six deputies, \$150.00 per month.....	10,800.00
Salary two deputies, eleven months, \$150.00 per month; two deputies, one month, \$125.00 per month.....	3,550.00
Salary three deputies, \$125.00 per month.....	4,500.00
Salary three deputies, \$100.00 per month.....	3,600.00
Salary one clerk two months, \$100.00 per month.....	200.00
Salary one clerk, one and one-half months, \$60.00 per month	96.00
Salary one stenographic clerk, \$100.00 per month.....	1,200.00
Salary two stenographic clerks, \$75.00 per month.....	1,747.15

Total warrants drawn.....	\$ 31,093.15
Balance appropriation cancelled.....	131.85

\$ 31,225.00

City Attorney's Department—

Appropriation Ordinance No. 17396.....	\$ 9,120.00
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Claims audited and warrants drawn:

Salary city attorney.....	\$ 2,400.00
Salary two deputies, \$150.00.....	3,600.00

Salary one deputy, \$125.00.....	1,500.00
Salary one stenographic clerk, \$85.00.....	1,005.85
Salary one stenographic clerk, \$50.00.....	600.00
Total warrants drawn.....	\$ 9,105.85
Balance appropriation cancelled.....	14.15
	\$ 9,120.00

Building Inspector's Department—

Appropriation Ordinance No. 17396.....	\$ 7,620.00
Appropriation Ordinance No. 17500.....	52.58
	\$ 7,672.58

Claims audited and warrants drawn:

Salary building inspector, 9½ months, \$175.00.....	\$ 1,684.70
Salary chief deputy, \$150.00.....	1,800.00
Salary two deputies, \$125.00.....	3,000.00
Salary one clerk, \$65.00.....	780.00
Total warrants drawn.....	\$ 7,264.70
Balance appropriation cancelled.....	407.88
	\$ 7,672.58

Codifying Ordinances—

Appropriation Ordinance No. 17323.....	\$ 2,500.00
	\$ 2,500.00

Claims audited and warrants drawn:

Salary two clerks.....	\$ 564.55
Balance appropriation carried forward.....	1,935.45
	\$ 2,500.00

Salary Council—

Appropriation Ordinance No. 17396.....	\$ 4,500.00
	\$ 4,500.00

Claims audited and warrants drawn:

Salary councilmen.....	\$ 4,450.00
Balance appropriation cancelled.....	50.00
	\$ 4,500.00

Miscellaneous Expenses Council—

Appropriation Ordinance No. 17396.....	\$ 1,000.00
Balance brought forward.....	725.00
	\$ 1,725.00

Claims audited and warrants drawn:

Warrants drawn	\$ 500.00
Balance appropriation cancelled.....	1,225.00
	\$ 1,725.00

Civil Service Commission—

Appropriation Ordinance No. 17396.....	\$ 1,980.00
	\$ 1,980.00

Claims audited and warrants drawn:

Salary secretary	\$ 1,200.00
Salary clerk	780.00
	\$ 1,980.00

Garbage Crematory—

Appropriation Ordinance No. 17396.....	\$ 14,100.00
Appropriation Ordinance No. 17627.....	2,920.00
	\$ 17,020.00

Claims audited and warrants drawn:

Salary superintendent	\$ 1,320.00
Salary foreman, \$85.00	1,020.00
Salary eight laborers, \$75.00.....	7,200.00
Salary one teamster, \$75.00.....	900.00
Salary extra labor, \$2.50 per day.....	883.75
Fuel	3,990.81
Feed	310.79
Repairs, etc.	1,370.01
Total warrants drawn.....	\$ 16,995.36
Balance appropriation cancelled.....	24.64
	\$ 17,020.00

Charter Revision Committee—

Appropriation Ordinance No. 18312.....	\$ 500.00
Appropriation Ordinance No. 18689.....	250.00
	\$ 750.00

Claims audited and warrants drawn:

Salary clerk	\$ 300.00
Stationery	48.25
Total warrants drawn.....	\$ 348.25
Balance appropriation carried forward.....	401.75
	\$ 750.00

City Hall—

Appropriation Ordinance No. 17396.....	\$ 12,360.00
Appropriation Ordinance No. 17995.....	150.00
Appropriation Ordinance No. 18072.....	90.00
Appropriation Ordinance No. 18225.....	175.00
Appropriation Ordinance No. 18440.....	85.00
Appropriation Ordinance No. 18451.....	200.00
Appropriation Ordinance No. 18588.....	130.00

\$ 13,190.00

Claims audited and warrants drawn:

Salary chief janitor, \$85.00.....	\$ 1,020.00
Salary seven janitors, \$80.00.....	5,760.00
Salary engineer, \$110.00.....	1,320.00
Salary elevator attendant, \$80.00.....	960.00
Salary extra labor, \$2.50 per day.....	397.50
Repair roof	75.00
Fuel	1,583.35
Repairs engine and elevator.....	153.78
Awnings	87.20
Miscellaneous	1,051.78

Total warrants drawn.....	\$ 12,408.61
Balance appropriation cancelled.....	781.39

\$ 13,190.00

Carfare—

Appropriation Ordinance No. 17396.....	\$ 3,500.00
	\$ 3,500.00

Claims audited and warrants drawn:

Health department	\$ 430.50
Engineer's department	1,476.35
Building inspector's department.....	198.00
Plumbing inspector's department.....	198.00
Street cleaning department.....	18.00
Crematory department	3.00

Total warrants drawn.....	\$ 2,323.85
Balance appropriation cancelled.....	1,176.15

\$ 3,500.00

City Engineer's Department—

Appropriation Ordinance No. 17396.....	\$ 94,000.00
Appropriation Ordinance No. 17412.....	1,000.00
Appropriation Ordinance No. 17423.....	150.00

Appropriation Ordinance No. 17498.....	500.00
Appropriation Ordinance No. 17722.....	5,000.00
Appropriation Ordinance No. 17994.....	4,100.00
Appropriation Ordinance No. 18223.....	3,900.00
Appropriation Ordinance No. 18256.....	250.00
Appropriation Ordinance No. 18326.....	100.00
Appropriation Ordinance No. 18582.....	5,000.00

\$ 114,000.00

Claims audited and warrants drawn:

Salary city engineer	\$ 2,400.00
Salary assistant engineer	1,800.00
Salary chief deputy	1,800.00
Salary chief draughtsman	1,740.00
Salary assistant draughtsman	1,500.00
Salary three assistant draughtsmen, \$100.00.....	4,500.00
Salary two assistant draughtsmen, \$90.00.....	2,160.00
Salary chief computer	1,500.00
Salary eight chief computers, \$90.00.....	8,720.00
Salary stenographer, \$85.00	1,020.00
Salary seven civil engineers, \$150.00.....	12,600.00
Salary instrumentmen	10,800.00
Salary chainmen	16,200.00
Salary cement tester	1,200.00
Salary sewer inspector	1,500.00
Salary brick and stone sewer inspectors, at \$5.00 per day	
Salary sidewalks, sewers and streets, at \$3.00 per day....	
Salary sewer repairers, \$75.00.....	27,007.07
Brick	338.33
Automobile	750.00
Sand and gravel.....	98.70
Lumber	759.45
Sewer pipe	1,654.08
Cement	315.90
Miscellaneous	1,599.08
Cement testing	27.25
Feed	672.90
Shoeing horses	88.50
Hardware	123.41
Harness	4.35
Blacksmithing	27.00
Expert high bridge.....	500.00
Expert Madison Street bridge.....	500.00
Consulting engineer	5,000.00

Total warrants drawn.....\$ 108,906.02

Balance appropriation cancelled.....	5,093.98
	\$ 114,000.00

Examination Master Plumbers—

Appropriation Ordinance No. 17396.....	\$ 300.00
	\$ 300.00

Claims audited and warrants drawn:

Examinations	\$ 270.00
Balance appropriation cancelled.....	30.00
	\$ 300.00

Conducting Investigations—

Appropriation Ordinance No. 17396.....	\$ 1,000.00
	\$ 1,000.00

Claims audited and warrants drawn:

Conducting investigations	\$ 123.25
Balance appropriation carried forward.....	876.75
	\$ 1,000.00

Elections—

Appropriation Ordinance No. 17489.....	\$ 795.00
Appropriation Ordinance No. 17503.....	3,500.00
	\$ 4,295.00

Claims audited and warrants drawn:

Booths and furniture.....	\$ 4,242.26
Balance appropriation cancelled.....	52.74
	\$ 4,295.00

Expenses Engineer Fire Department to Victoria—

Appropriation Ordinance No. 17396.....	\$ 100.00
	\$ 100.00

Claims audited and warrants drawn:

Expenses fire chief to convention at Victoria.....	\$ 30.20
Balance appropriation cancelled.....	69.80
	\$ 100.00

Installing Fountains—

Appropriation Ordinance No. 17174.....	\$ 600.00
	\$ 600.00

Claims audited and warrants drawn:

Installing fountains	\$ 487.03
Balance appropriation cancelled.....	112.97
	\$ 600.00

Roof Forestry Building—

Appropriation Ordinance No. 17125.....	\$ 3,000.00
	\$ 3,000.00

Claims audited and warrants drawn:

Repairs to roof	\$ 1,870.65
Balance appropriation carried forward.....	1,129.35
	\$ 3,000.00

Advertising—

Appropriation Ordinance No. 17396.....	\$ 10,000.00
Appropriation Ordinance No. 18582.....	3,700.00
	\$ 13,700.00

Claims audited and warrants drawn:

Advertising	\$ 12,965.18
Balance appropriation cancelled.....	734.82
	\$ 13,700.00

Advertising Park Bonds—

Appropriation Ordinance No. 18624.....	\$ 500.00
	\$ 500.00

Claims audited and warrants drawn:

Advertising	\$ 38.88
Balance appropriation carried forward.....	461.12
	\$ 500.00

Repair Float and Approach, Foot of Stark Street—

Appropriation Ordinance No. 17792.....	\$ 400.00
	\$ 400.00

Claims audited and warrants drawn:

Piling	\$ 168.00
Balance appropriation cancelled.....	232.00
	\$ 400.00

Harbor Master—

Appropriation Ordinance No. 17396.....	\$ 2,400.00
	<u>\$ 2,400.00</u>
Claims audited and warrants drawn:	
Salary harbor master.....	\$ 2,400.00
	<u>\$ 2,400.00</u>

Purchase of and Placing of Buoys—

Appropriation Ordinance No. 17394.....	\$ 5,500.00
	<u>\$ 5,500.00</u>
Claims audited and warrants drawn:	
Placing dolphins	\$ 486.00
Balance appropriation carried forward.....	5,014.00
	<u>\$ 5,500.00</u>

Fire Hydrants—

Appropriation Ordinance No. 18017.....	\$ 30,000.00
	<u>\$ 30,000.00</u>
Claims audited and warrants drawn:	
Hydrants	\$ 5,838.98
Carried forward	10,471.02
Balance appropriation cancelled.....	13,690.00
	<u>\$ 30,000.00</u>

Health Department—

Balance of appropriation brought forward.....	\$ 2,500.00
Appropriation Ordinance No. 17396.....	13,310.00
Appropriation Ordinance No. 17890.....	1,218.00
Appropriation Ordinance No. 18194.....	2,000.00
Appropriation Ordinance No. 18327.....	965.00
	<u>\$ 19,993.00</u>
Claims audited and warrants drawn:	
Salary health officer	\$ 3,000.00
Salary deputies	3,720.00
Salary bacteriologist	900.00
Salary city physician	1,500.00
Salary market inspector	1,020.00
Salary clerk	900.00
Salary matron	1,458.00

Salary medical school inspectors.....	803.25
Bounty dead rats.....	409.35
Ambulance service	1,223.00
Groceries, provisions, etc.	1,333.01
Drugs	1,303.79
Hospital charges	1,887.00
Miscellaneous	388.97
	<u>\$ 19,846.37</u>
Total warrants drawn.....	\$ 19,846.37
Balance appropriation cancelled.....	146.63
	<u>\$ 19,993.00</u>

Insurance—

Appropriation Ordinance No. 17396.....	\$ 500.00
Appropriation Ordinance No. 18195.....	300.00
Appropriation Ordinance No. 18377.....	450.00
	<u>\$ 1,250.00</u>
Claims audited and warrants drawn:	
Insurance	\$ 1,178.10
Balance appropriation cancelled.....	71.90
	<u>\$ 1,250.00</u>

Improvement of Streets in Front of Public Property—

Appropriation Ordinance No. 17396.....	\$ 10,000.00
	<u>\$ 10,000.00</u>
Claims audited and warrants drawn:	
Improvement of streets.....	\$ 8,626.75
Carried forward	479.37
Balance appropriation cancelled.....	893.88
	<u>\$ 10,000.00</u>

Litigation—

Appropriation Ordinance No. 17396.....	\$ 1,000.00
	<u>\$ 1,000.00</u>
Claims audited and warrants drawn:	
Litigation	\$ 599.08
Balance appropriation cancelled.....	400.92
	<u>\$ 1,000.00</u>

License Tags—

Appropriation Ordinance No. 17396.....	\$ 1,000.00
Appropriation Ordinance No. 17723.....	250.00
Appropriation Ordinance No. 18435.....	1,400.00

\$ 2,650.00

Claims audited and warrants drawn:

License tags	\$ 1,713.19
Balance appropriation carried forward.....	936.81

\$ 2,650.00

Mayor's Department—

Appropriation Ordinance No. 17396.....	\$ 6,300.00
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\$ 6,300.00

Claims audited and warrants drawn:

Salary mayor	\$ 4,800.00
Salary secretary	900.00
Secret service	600.00

\$ 6,300.00

Municipal Court—

Appropriation Ordinance No. 17396.....	\$ 3,000.00
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\$ 3,000.00

Claims audited and warrants drawn:

Salary municipal judge.....	\$ 1,800.00
Salary municipal clerk.....	1,200.00

Total warrants drawn.....	\$ 3,000.00
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Removal Building East Stark Street—

Appropriation Ordinance No. 17626.....	\$ 300.00
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\$ 300.00

Claims audited and warrants drawn:

Lone Fir Cemetery Association.....	\$ 300.00
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Total warrants drawn.....	\$ 300.00
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Free Museum—

Appropriation Ordinance No. 17396.....	\$ 2,500.00
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\$ 2,500.00

Claims audited and warrants drawn:

Free museum	\$ 770.17
Balance appropriation cancelled.....	1,729.83

\$ 2,500.00

Miscellaneous Expenses—

Appropriation Ordinance No. 17396.....	\$ 3,600.00
Appropriation Ordinance No. 18443.....	150.00

\$ 3,750.00

Claims audited and warrants drawn:

Miscellaneous expenses	\$ 2,851.49
Carried forward	10.75
Balance appropriation cancelled.....	887.76

\$ 3,750.00

Furniture, City Hall—

Appropriation Ordinance No. 17396.....	\$ 1,000.00
Appropriation Ordinance No. 17502.....	500.00
Appropriation Ordinance No. 17857.....	125.00
Appropriation Ordinance No. 18225.....	100.00
Appropriation Ordinance No. 18320.....	185.00
Appropriation Ordinance No. 18624.....	500.00

\$ 2,410.00

Claims audited and warrants drawn:

Office furniture	\$ 1,993.65
Balance appropriation carried forward.....	416.35

\$ 2,410.00

Pound Department—

Appropriation Ordinance No. 17396.....	\$ 5,860.00
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\$ 5,860.00

Claims audited and warrants drawn:

Salary pound master	\$ 1,080.00
Salary three deputy pound masters, \$75.00.....	2,700.00
Salary extra help, \$75.00.....	450.00
Feed	762.43
Harness	7.25
Sawdust	24.00
Rent East Side Pound.....	187.80
Blacksmithing	11.50

Shoeing horses	118.50
Miscellaneous	174.85
Total warrants drawn.....	\$ 5,516.33
Balance appropriation cancelled.....	343.67
	\$ 5,860.00

Plumbing Inspector's Department—

Appropriation Ordinance No. 17396.....	\$ 6,300.00
Appropriation Ordinance No. 18443.....	130.00
	\$ 6,430.00

Claims audited and warrants drawn:

Salary plumbing inspector.....	\$ 1,800.00
Salary deputy plumbing inspectors.....	4,500.00
Salary clerk	112.67
Total warrants drawn.....	\$ 6,412.67
Balance appropriation cancelled.....	17.33
	\$ 6,430.00

Relief Certain Persons—

Appropriation Ordinances Nos. 17322-17324.....	\$ 118.75
Appropriation Ordinance No. 17396.....	2,500.00
Appropriation Ordinances Nos. 17545-17546.....	599.50
Appropriation Ordinance No. 18585.....	140.50
	\$ 3,358.75

Claims audited and warrants drawn:

Relief certain persons.....	\$ 2,896.25
Balance appropriation cancelled.....	462.50
	\$ 3,358.75

Pay of Viewers—

Appropriation Ordinance No. 17396.....	\$ 3,000.00
Appropriation Ordinance No. 18497.....	1,000.00
Appropriation Ordinance No. 18582.....	530.00
	\$ 4,530.00

Claims audited and warrants drawn:

Pay of viewers.....	\$ 4,210.00
Total warrants drawn.....	\$ 4,210.00
Balance appropriation cancelled.....	320.00
	\$ 4,530.00

Stationery and Blanks—

Appropriation Ordinance No. 17396.....	\$ 6,500.00
Appropriation Ordinance No. 18582.....	1,425.00
	\$ 7,925.00

Claims audited and warrants drawn:

Stationery—

Auditor's department	\$ 2,606.67
Mayor's message	762.62
Treasurer's department	430.40
Health department	401.00
Building Inspector	215.90
Plumbing Inspector	149.95
Civil Service department	206.10
Engineer's department	1,816.90
City Attorney's department	522.95
Municipal court	264.05
Mayor's department	47.75
Street Cleaning department	4.70
Scaler Weights and Measures.....	89.55
Harbor Master	118.00
Crematory	6.10
Total warrants drawn	\$ 7,642.64
Balance appropriation cancelled.....	282.36
	\$ 7,925.00

Street Cleaning Department—

Appropriation Ordinance No. 17396.....	\$ 150,000.00
	\$ 150,000.00

Claims audited and warrants drawn:

Salary superintendent	\$ 1,800.00
Salary foreman	1,440.00
Salary five barnmen, \$80.00.....	4,800.00
Salary broommaker, \$80.00.....	960.00
Salary repairman, \$80.00.....	960.00
Salary assistant repairman, \$75.00.....	900.00
Salary two foremen, \$80.00.....	1,920.00
Laborers, \$2.50 per day.....	68,746.38
Hired teams	9,746.25
Electric sprinklers	4,043.87
Veterinary Surgeon salary.....	240.00
Automatic fire alarm.....	120.00

Sawdust	134.00
Rent of property adjoining barn.....	200.00
Equipment	2,488.00
Rattan	1,082.88
Feed	9,982.23
Harness	1,285.20
Blacksmithing	537.22
Shoeing horses	1,791.85
Miscellaneous	6,027.44
Lumber	564.65
Hardware	390.59
Horses	5,810.00
Total warrants drawn.....	\$ 125,970.56
Balance appropriation cancelled.....	24,029.44
	\$ 150,000.00

Sealer Weights and Measures—

Appropriation Ordinance No. 17496.....	\$ 2,362.50
	\$ 2,362.50
Claims audited and warrants drawn:	
Salary Sealer Weights and Measures.....	\$ 1,000.00
Salary deputy	800.00
Total warrants drawn.....	\$ 1,800.00
Balance appropriation cancelled.....	562.50
	\$ 2,362.50

Purchase Horse and Wagon, Sealer Weights and Measures—

Appropriation Ordinance No. 17857.....	\$ 440.00
	\$ 440.00
Claims audited and warrants drawn:	
Horse	\$ 175.00
Wagon	152.25
Harness	30.00
Total warrants drawn.....	\$ 357.25
Balance appropriation cancelled.....	82.75
	\$ 440.00

City Treasurer's Department—

Appropriation Ordinance No. 17396.....	\$ 6,900.00
Appropriation Ordinance No. 17541.....	275.00

Appropriation Ordinance No. 17542.....	275.00
Appropriation Ordinance No. 18582.....	135.00
	\$ 7,585.00
Claims audited and warrants drawn:	
Salary treasurer	\$ 2,400.00
Salary chief deputy.....	2,100.00
Salary second deputy, one month, \$125.00; eleven months, \$150.00	1,775.00
Salary clerk, eleven months, \$100.00; one month \$75.00..	1,175.00
Total warrants drawn.....	\$ 7,450.00
Balance appropriation cancelled.....	135.00
	\$ 7,585.00

Modernizing Vault, Treasurer's Office—

Appropriation Ordinance No. 17175.....	\$ 8,000.00
	\$ 8,000.00
Claims audited and warrants drawn:	
Vault	\$ 6,379.00
Balance appropriation cancelled.....	1,621.00
	\$ 8,000.00
Total warrants drawn.....	\$ 440,674.27

During the year general fund warrants amounting to \$358.73 were cancelled.

Appropriations were made, no part of which has been expended, and the balances carried forward as follows:

Arch, Sixth Street—

Appropriation Ordinance No. 18192.....	\$ 2,850.00
	\$ 2,850.00
Appropriation carried forward.....	\$ 2,850.00
	\$ 2,850.00

Improvement, East Stark Street—

Appropriation Ordinance No. 18643.....	\$ 9,500.00
	\$ 9,500.00
Appropriation carried forward.....	\$ 9,500.00
	\$ 9,500.00

Care of Water, Hawthorne Springs—

Appropriation Ordinance No. 18192.....	\$ 1,000.00
	\$ 1,000.00
Appropriation carried forward.....	\$ 1,000.00
	\$ 1,000.00

Purchase of Park Property—

Appropriation Ordinance No. 18602.....	\$ 1,000.00
	\$ 1,000.00
Appropriation carried forward.....	\$ 1,000.00
	\$ 1,000.00

Expense Madison Street Bridge—

Appropriation Ordinance No. 18375.....	\$ 250.00
	\$ 250.00
Appropriation carried forward.....	\$ 250.00
	\$ 250.00

FIRE DEPARTMENT FUND

Appropriation Ordinance No. 17364.....	\$ 1,000.00
Appropriation Ordinance No. 17397.....	464,327.00
Appropriation Ordinance No. 17409.....	200.00
	\$ 465,527.00

Claims audited and warrants drawn:

Salaries employes.....	\$ 279,060.42
Fire alarm telegraph.....	5,333.64
Apparatus repair.....	5,323.79
Cisterns.....	14.39
Feed.....	17,000.99
Fuel.....	6,469.43
House repairs, fixtures and furniture.....	8,358.89
Hydrants.....	476.68
Shoes.....	2,702.10
Pasture.....	66.90
Harness.....	692.14
Lighting (lantern apparatus).....	410.40
Rent.....	570.00
Printing, advertising and office expenses.....	704.91

Scavenger service.....	1,207.50
Stores.....	2,480.25
Water tower (soft suction).....	225.00
Allowance volunteer hose companies.....	360.00
Veterinary surgeon.....	425.00
Miscellaneous.....	16.00
Horses.....	3,775.00
Insurance.....	766.50
Iron posts and settings.....	912.23
Fire alarm telephone equipment.....	216.76
Installing 25 fire alarm boxes, East Side.....	2,169.22
Installing 25 new boxes.....	2,371.52
23 miles wire for houses, circuits and installing same....	761.59
Extra labor, underground work.....	1.00
Police and fire relief.....	2,040.60

NOTE.—For salaries paid see report of Fire Department.

Hose Company, North Albina—

Hardware.....	\$ 23.90
Furniture.....	45.50
Axes, lanterns and caskets.....	10.30
Repairs to building.....	13.50
	\$ 93.20

Engine Company, Fifteenth and Montgomery Streets—

Grounds.....	\$ 6,750.00
Hose wagon.....	1,800.00
	\$ 8,550.00

Engine Company, Twenty-fourth and Kearney Streets—

Grounds.....	\$ 4,250.00
Hose wagon.....	1,800.00
	\$ 6,050.00

Engine Company, Williams Avenue and Russell Street—

Grounds.....	\$ 4,500.00
	\$ 4,500.00

Engine Company No. 15—

Cement wall	\$ 647.65
Cement	618.75
Gravel	373.50
Hardware	208.61
Lumber	124.78
Miscellaneous	137.38
	\$ 2,110.67

Engine Company, East Irvington—

Ground	\$ 2,100.00
	\$ 2,100.00
Warrants drawn	\$ 2,100.00
	\$ 2,100.00

Total warrants drawn.....	\$ 368,316.72
Balance appropriation cancelled.....	97,210.28
	\$ 465,527.00

During the year Fire Department Fund Warrants amounting to \$2.50 were cancelled.

POLICE DEPARTMENT FUND

Appropriation Ordinance No. 17398.....	\$ 190,000.00
Appropriation Ordinance No. 17501.....	3,000.00
Appropriation Ordinance No. 18339.....	4,000.00
	\$ 197,000.00

Claims audited and warrants drawn:

Salaries	\$ 173,762.82
Salaries female detective and clerk.....	1,882.00
Protection women and girls.....	431.48
Police stable	703.45
Shoeing horses	389.00
Feed	2,478.32
Blacksmithing	50.25
Harness	163.50
Feeding prisoners	4,706.94
Miscellaneous	2,684.34
Call boxes	497.85
Photographs	212.50

Stationery	625.46
Telegraphing	269.01
Patrol wagon	73.55
Patrol boxes	454.19
Insurance	133.20
Jail site, East Side.....	3,850.00
Police and fire relief fund.....	1,200.20

Total warrants drawn.....	\$ 194,852.41
Balance appropriation cancelled.....	2,147.59
	\$ 197,000.00

During the year Police Department Fund Warrants amounting to \$20.15 were cancelled.

NOTE.—For salaries paid see report of Police Department.

Bonded Indebtedness Interest Fund—

Balance appropriation brought forward.....	\$ 10.50
Appropriation Ordinance No. 17399.....	134.50
	\$ 145.00

Claims audited and warrants drawn:

Total warrants drawn	\$ 145.00
	\$ 145.00

Coupons paid:

Interest coupons paid in Portland.....	\$ 86,485.00
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Interest coupons paid in New York as follows:

Chemical National Bank	37,650.00
Chase National Bank	1,620.00
N. W. Harris & Co.	15,090.00
Blair & Co.	600.00

\$ 141,445.00

Lighting Fund—

Amount of appropriation brought forward.....	\$ 7,493.25
Appropriation Ordinance No. 17400.....	101,409.00
Appropriation October 31, 1908.....	5,485.51

\$ 114,387.76

Claims audited and warrants drawn:

Lighting streets	\$ 78,157.38
Amount of appropriation carried forward.....	36,230.38

\$ 114,387.76

During the year Lighting Fund warrants amounting to \$5,485.51 were canceled.

Street Repair Fund—

Appropriation Ordinance No. 17401.....	\$ 99,000.00
Appropriation Ordinance No. 17903.....	1,869.60
	<u>\$ 100,869.60</u>

Claims audited and warrants drawn:

Salary civil engineer.....	\$ 1,800.00
Salary instrumentman	1,200.00
Salary three chainmen, at \$75.00.....	2,700.00
Salary three inspectors, at \$125.00	4,500.00
Salary one clerk, at \$85.00	1,020.00
Salary one inspector, at \$100.00.....	1,200.00
Salaries traction engineers, at 45c per hour; bridge foremen, at \$4.50 per day; carpenters, at \$3.50 per day; laborers, at \$2.50 per day	35,857.35
Rock	11,025.07
Sand and gravel	3,587.09
Road roller, fuel, repairs, oil, etc.....	3,890.21
Lumber	10,277.07
Hardware	909.58
Cement	3,439.15
Team hire	4,414.15
Maintenance hard surface streets.....	3,843.10
Repair streets	3,758.20
Vehicle license refunds	1,859.60
Miscellaneous	1,236.95

Total warrants drawn	\$ 96,517.52
Balance appropriation canceled	4,352.08
	<u>\$ 100,869.60</u>

During the year Street Repair Fund warrants amounting to 25 cents were canceled.

Library Fund—

Balance appropriation brought forward.....	\$ 800.60
Appropriation Ordinance No. 17402.....	22,765.00
	<u>\$ 23,565.60</u>

Claims audited and warrants drawn:

Total warrants drawn	\$ 21,144.90
Balance appropriation carried forward.....	2,420.70
	<u>\$ 23,565.60</u>

Park Department—

Balance brought forward	\$ 4,076.24
Appropriation Ordinance No. 17403.....	68,680.00
Appropriation Ordinance No. 18007.....	500.00
Appropriation Ordinance No. 18208.....	500.00
Appropriation Ordinance No. 18601.....	850.00
	<u>\$ 74,606.24</u>

Claims audited and warrants drawn:

Salary superintendent	\$ 2,500.00
Salary three watchmen, at \$75.00.....	2,700.00
Salary one foreman, at \$75.00.....	900.00
Salary two gardeners, at \$70.00.....	1,680.00
Salary one animal tender, at \$100.00.....	1,200.00
Salary custodian Forestry Building, at \$90.00.....	1,080.00
Salary laborers, at \$2.50 per day.....	18,639.51
Salaries park surveys	2,912.14
Feed	2,470.15
Hardware	899.61
Greenhouse	3,800.00
Hot water plant	1,180.00
Ground	850.00
Animal cages	1,214.35
Rock and screenings	1,867.48
Fountain	447.00
Horses	500.00
Manure	517.27
Roof	120.00
Harness	167.91
Painting	455.00
Sidewalks	243.44
Fence	233.00
Miscellaneous	4,302.69
Swimming bath	293.26
Music (concert City Park)	4,369.00

Total warrants drawn	\$ 55,541.81
Balance appropriation carried forward.....	19,064.43
	<u>\$ 74,606.24</u>

During the year Park Fund warrants amounting to \$234.70 were canceled.

Water Fund—

Appropriation Ordinance No. 17404.....	\$ 392,000.00
	<u>\$ 392,000.00</u>
Claims audited and warrants drawn:	
Albina pump	\$ 644.05
Palatine pump	1,372.97
Extending mains	152,297.75
Inspection	16,742.60
High service pump	37.00
Loose property	957.79
Meters	11,413.26
Reservoirs (construction)	17,059.68
Reservoirs (operation)	12,515.66
Office expenses	18,026.07
Pipe line	11,045.59
Repairing mains	22,045.17
Books and stationery	1,914.92
Surveys and Extension No. 2.....	2,534.86
Purchase of property	1,000.00
	<u>\$ 269,607.37</u>
Balance appropriation carried forward.....	122,392.63
	<u>\$ 392,000.00</u>

During the year Water Fund warrants amounting to 25 cents were canceled.

Salaries paid are as follows:

1 superintendent	\$ 250.00
4 clerks	125.00
1 clerk	105.00
5 clerks	100.00
1 inspector	125.00
1 inspector	115.00
1 inspector	100.00
13 inspectors	90.00
1 pump engineer in charge of reservoir gateman.....	115.00
1 assistant engineer	80.00
5 night engineers	77.00
3 engineers, \$3.50 per day, gatemen.....	75.00
1 engineer	200.00
1 assistant engineer	145.00
1 pipe inspector	125.00
1 instrumentman	125.00

1 chainman	80.00
1 transitman	100.00
1 draughtsman	100.00
1 chainman	75.00
3 foremen	125.00
1 foreman	100.00
1 foreman	95.00
1 foreman	90.00
Laborers, \$2.50 per day.....	
Caulkers, \$3.00 per day.....	

Water Bond Interest Fund—

Coupons paid and returned.....	\$ 145,200.00
	<u>\$ 145,200.00</u>

Water Bond Sinking Fund—

Balance brought forward 1907.....	\$ 11.04
Appropriation Ordinance No. 17992.....	80,000.00
Appropriation Ordinance No. 18438.....	5,906.70
Appropriation Ordinance No. 18658.....	1,673.65
	<u>\$ 87,591.39</u>

Claims audited and warrants drawn:

Water bond sinking fund.....	\$ 87,460.74
Balance appropriation carried forward.....	130.65
	<u>\$ 87,591.39</u>

Improvement Fund—

Appropriation Ordinance No. 17624.....	\$ 21.54
Claims audited and warrants drawn.....	21.54
Bonds redeemed	38,833.11
	<u>\$ 38,854.65</u>

Improvement Bond Sinking Fund—

Appropriation Ordinance No. 17363.....	\$ 50,000.00
Appropriation Ordinance No. 18669.....	1,388.46
	<u>\$ 51,388.46</u>

Claims audited and warrants drawn:

Total warrants drawn.....	\$ 51,388.46
Bonds redeemed	136,465.11
	<u>\$ 187,853.57</u>

Police and Fire Relief Fund—

Balance appropriation brought forward.....	\$ 960.76
Appropriation Ordinance No. 17406.....	2,500.00
Appropriation Ordinance No. 17991.....	4,000.00
Appropriation Ordinance No. 18071.....	250.00
	<u>\$ 7,710.76</u>

Claims audited and warrants drawn:

Total warrants drawn.....	\$ 6,862.18
Balance appropriation cancelled.....	848.58
	<u>\$ 7,710.76</u>

Redemption Fund—

Balance brought forward 1907.....	\$ 1,126.61
Appropriation Ordinance No. 17407.....	3,000.00
Appropriation Ordinance No. 18224.....	2,000.00
	<u>\$ 6,126.61</u>

Claims audited and warrants drawn:

Warrants for payment of redemption.....	\$ 4,392.56
Balance appropriation carried forward.....	1,734.05
	<u>\$ 6,126.61</u>

Special Bridge Fund—

Balance brought forward 1907.....	\$ 13,786.54
Appropriation Ordinance No. 17405.....	150,000.00
Appropriation Ordinance No. 18495.....	900.00
Appropriation Ordinance No. 18600.....	500.00
	<u>\$ 165,186.54</u>

Claims audited and warrants drawn:

Total warrants drawn	\$ 61,748.75
Balance appropriation carried forward.....	103,437.79
	<u>\$ 165,186.54</u>

Appropriation Payment of Accrued Interest on Improvement Bonds—

Appropriation Ordinance No. 17363.....	\$ 1,000.00
Appropriation Ordinance No. 17624.....	1.94
	<u>\$ 1,001.94</u>

Claims audited and warrants drawn:

Total warrants drawn.....	\$ 236.24
Coupons paid	59,283.53
Balance appropriation carried forward.....	765.70
	<u>\$ 60,285.47</u>

SUMMARY

General fund	\$ 440,674.27
Fire Department fund.....	368,316.72
Police Department fund.....	194,852.41
Bonded indebtedness interest fund.....	141,590.00
Lighting fund	78,157.38
Street repair fund.....	96,517.52
Public library fund.....	21,144.90
Park fund	55,541.81
Water fund	269,607.37
Water bond interest fund.....	145,200.00
Water bond sinking fund.....	87,460.74
Improvement fund	38,854.65
Improvement bond sinking fund.....	187,853.57
Police and Fire Department relief fund.....	6,862.18
Redemption fund	4,392.56
Special bridge fund	61,748.75
Payment accrued interest on improvement bonds.....	236.24

TRIAL BALANCE OF LEDGER NO. 8 JANUARY 1, 1909

City of Portland.....	\$7,924,296.63	
Bonds		\$6,226,500.00
Improvement bonds		1,707,368.06
Street and sewer warrants.....	9,571.43	
Certificates of deposit.....	98,705.05	
J. E. Werlein, Treas. (bonds).....	1,000.00	
J. E. Werlein, Treas.	1,290,616.20	
General fund		208,858.80
Appropriation general fund.....	36,732.72	
Appropriation expense license tags.....		936.81
Appropriation improvement of streets in front of public property.....		479.37
Appropriation expense furniture City Hall..		416.35
Appropriation conducting investigations....		876.75
Appropriation codifying ordinances		1,935.45
Appropriation expense new roof Forestry building		1,129.35
Appropriation miscellaneous expenses.....		10.75
Appropriation purchase and placing buoys.		5,014.00
Appropriation construction of arch, Sixth street		2,850.00
Appropriation purchase of fire hydrants....		10,471.02
Appropriation care of water, Hawthorne springs		1,000.00
Appropriation improvement of East Stark street		9,500.00
Appropriation expense charter revision committee		401.75
Appropriation expense Madison street bridge		250.00
Appropriation purchase of park property...		1,000.00
Appropriation advertising sale of park bonds		461.12
Fire Department fund.....		56,651.18
Police Department fund.....		18,083.15
Bonded indebtedness interest fund.....		29,816.98
Chemical National Bank, New York.....		12,550.00
Chase National Bank, New York.....		1,500.00
Harris & Co., New York.....		300.00
Lighting fund		52,400.63
Appropriation lighting fund.....	36,230.38	
Appropriation lighting streets.....		36,230.38
Street repair fund		14,421.08
Appropriation Library fund.....	2,420.70	
Appropriation general expense library....		2,420.70
Park fund		23,914.86
Appropriation park fund.....	19,064.43	

Appropriation general expense park Dept...		19,064.43
Water fund		138,095.31
Appropriation water fund.....	122,392.63	
Appropriation general expense water Dept..		122,392.63
Water bond interest fund.....		72,625.00
Water bond sinking fund.....		124.90
Appropriation water bond sinking fund....	130.65	
Appropriation purchase of bonds.....		130.65
Improvement fund		100,838.88
Improvement bond sinking fund.....		8,439.45
Improvement bond interest fund.....		6,781.37
Appropriation improvement bond interest fund	765.70	
Appropriation payment of accrued interest on improvement bonds.....		765.70
Street and sewer interest fund.....		1,355.76
Appropriation street and sewer interest fund.	147.71	
Appropriation payment of interest on street and sewer warrants		147.71
General fund—redemption of warrants....		2,889.53
Fund for repairs to streets and bridges....		31.98
Police and Fire Department relief fund....		2,244.60
Redemption fund		174.38
Appropriation redemption fund	1,734.05	
Appropriation payment of redemptions.....		1,734.05
Bill posting badge fund.....		94.00
Special bridge fund		33,042.43
Appropriation special bridge fund.....	103,437.79	
Appropriation payment of construction of bridges		103,437.79
Street improvement funds.....		75,269.45
Sewer funds		1,068.73
Street extension fund		15,803.80
Franchises		3,640.00
Franchise Willamette Valley Traction Co..	440.00	
Franchise United Railways Co.....	2,200.00	
Franchise Home Telephone & Telegraph Co.	1,000.00	
Park and boulevard fund.....		510,945.00
Sinking fund investments.....	215,239.99	
Water bond sinking fund investments....		159,851.53
Improvement bond sinking fund investments		51,388.46
Police and fire relief fund investments....		4,000.00
Portland Railway, Light & Power Co. deposit fund		1,000.00
Mt. Hood Electric Co. deposit fund.....		1,000.00
	\$9,866,126.06	\$9,866,126.06

DETAILED STATEMENT OF LICENSES PAID DURING 1908

Occupations.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Tot. for Yr.
Abstractors	\$ 22.50	\$ 27.50	\$ 21.25	\$ 56.25	\$ 127.50
Auctioneers	280.00	520.00	280.00	740.00	1,820.00
Baggage Solicitors	10.00	8.30	11.65	18.30	48.25
Bankers	542.50	440.00	482.50	417.50	1,882.50
Baths and Massage	85.00	110.00	172.50	132.50	500.00
Billiards	120.00	158.30	203.35	200.00	681.65
Bill Posters and Distributors	526.75	56.75	43.35	463.35	1,090.20
Bowling Alleys	20.00	15.00	35.00	23.35	93.35
Brokers, Merchandise	230.00	130.00	190.00	130.00	680.00
Brokers, Money	180.00	90.00	131.65	120.00	521.65
Brokers, Stock	25.00	25.00	25.00	25.00	100.00
Chiropodists	30.00	35.00	25.00	48.35	138.35
Clairvoyants, Palmists, Fortune Tellers, etc.,	280.00	505.00	.....	.....	785.00
Coal Oil Storage	35.00	29.00	35.00	29.00	128.00
Dance Halls .....	.....	.....	.....	41.65	41.65
Detective Agencies	63.35	63.35	63.35	70.00	260.05
Employment Agencies, Female	65.00	.....	80.00	.....	145.00
Employment Agencies, General	770.00	50.00	950.00	250.00	2,020.00

DETAILED STATEMENT OF LICENSES PAID DURING 1908

Occupations.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Tot. for Yr.
Express, Railroad, Telegraph, Telephone and Messenger Companies	978.00	1,118.40	1,201.60	938.65	4,236.65
Hack Drivers	5.00	.....	.....	.....	5.00
Hawkers and Peddlers	49.00	848.30	337.15	362.00	1,596.45
Hotel Runners	206.70	230.05	256.65	240.00	933.40
Insurance Agents	1,440.00	1,283.31	1,356.65	1,320.00	5,409.96
Knife and Ball Racks	75.00	41.70	25.00	58.35	200.05
Laundries	434.15	285.00	263.35	291.65	1,274.15
Liquor Dealers (Grocers, Druggists and Restaurants)	1,875.00	1,975.00	2,100.00	1,725.00	7,675.00
Liquor Dealers (Rectifiers, Retailers and Wholesalers)	89,866.65	89,700.00	90,233.35	89,950.00	359,750.00
Mercantile Agencies	62.50	62.50	62.50	62.50	250.00
Merchants	37.25	.....	.....	.....	37.25
Pawnbrokers	825.00	1,125.00	750.00	1,125.00	3,825.00
Physicians and Dentists	30.00	579.00	230.00	231.00	1,070.00
Plumbers	504.00	96.00	120.00	24.00	744.00
Powder Dealers	35.00	25.00	40.00	35.00	135.00
Restaurants	44.00	.....	.....	.....	44.00
Second-hand Dealers	465.00	435.00	465.00	465.00	1,830.00
Shooting Galleries	100.00	108.35	100.00	199.95	508.30
Shows and Exhibitions	385.00	445.00	266.65	430.00	1,526.65
Steamboat Runners .....	.....	13.35	13.35	6.65	33.35

DETAILED STATEMENT OF LICENSES PAID DURING 1908

Occupations.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Tot. for Yr.
Storage	60.00	100.00	170.00	120.00	450.00
Theaters	500.00	300.00	283.30	450.00	1,533.30
Vehicles, all kinds	9,181.60	10,039.55	6,137.35	5,892.45	31,250.95
Wharfingers	410.00	440.00	480.00	430.00	1,760.00
Miscellaneous	851.40	1,294.60	1,463.35	210.00	3,819.35
Totals	\$111,705.35	\$112,818.31	\$109,104.85	\$107,332.45	\$440,960.96

DETAILED STATEMENT BONDED INDEBTEDNESS, DECEMBER 31, 1908

General.				
Amount.	Date.	Time.	Interest.	Object.
\$ 56,500.00	May 1, 1903	25 years	4 per cent.	To redeem outstanding bonds.
430,000.00	Dec. 1, 1898	30 years	5 per cent.	Funding floating debt.
Water Bonds.				
Amount.	Date.	Time.	Interest.	Object.
\$ 700,000.00	Jan. 1, 1887	30 years	5 per cent.	Purchase of water works.
2,200,000.00	July 1, 1893	30 years	5 per cent.	Construction Bull Run system.
City Hall Bonds.				
Amount.	Date.	Time.	Interest.	Object.
\$ 175,000.00	Jan. 1, 1890	30 years	5 per cent.	Purchase of site.
500,000.00	July 1, 1892	30 years	5 per cent.	Construction of City Hall.
Bridge Bonds.				
Amount.	Date.	Time.	Interest.	Object.
\$ 500,000.00	Jan. 1, 1892	30 years	5 per cent.	Purchase and construction of free bridges.
200,000.00	April 1, 1895	30 years	5 per cent.	Purchase of bridge.
400,000.00	Jan. 1, 1904	30 years	4 per cent.	Construction of Morrison street bridge.

DETAILED STATEMENT BONDED INDEBTEDNESS, DECEMBER, 31, 1908

Park and Boulevard Bonds.

Amount.	Date.	Time.	Interest.	Object.
\$ 500,000.00	Dec. 1, 1908	25 years	4 per cent.	Purchase and improvement parks and boulevards.

Ferry Bonds.

Amount.	Date.	Time.	Interest.	Object.
50,000.00	April 1, 1893	30 years	5 per cent.	Construction of ferry.
15,000.00	Dec. 1, 1903	30 years	5 per cent.	Construction of ferry, 1904.
50,000.00	Jan. 1, 1904	30 years	4 per cent.	Construction of ferry, 1904.

Former City of East Portland.

Amount.	Date.	Time.	Interest.	Object.
\$ 250,000.00	May 1, 1891	30 years	6 per cent.	Water system.
50,000.00	May 1, 1891	30 years	6 per cent.	Electric light plant.

Former City of Albina.

Amount.	Date.	Time.	Interest.	Object.
\$ 10,000.00	Aug. 1, 1890	20 years	6 per cent.	Municipal expenses.
40,000.00	June 1, 1891	30 years	6 per cent.	Municipal expenses.
50,000.00	June 1, 1891	30 years	6 per cent.	Boulevards and roadways.
50,000.00	June 1, 1891	30 years	6 per cent.	Purchase and improvement of parks.

SINKING FUND INVESTMENTS

Water Bond Sinking Fund Investments—

Improvement bonds purchased and in custody of Water Board January 1, 1908, par value.....	\$ 94,262.72
Improvement bonds purchased during year 1908, par value	85,000.00
	\$ 179,262.72
(Premium and accrued interest paid on bonds purchased during 1908, \$2,460.74.)	
Improvement bonds redeemed by City during 1908.....	\$ 19,411.19
Improvement bonds in custody of Water Board December 31, 1908.....	159,851.53
	\$ 179,262.72

Improvement Bond Sinking Fund Investments—

Improvement bonds purchased during 1908 and in custody of City Treasurer.....	\$ 51,388.46
(Accrued interest paid on above bonds, \$234.30.)	

Police and Fire Relief Fund Investments—

Improvement bonds purchased during 1908 and in custody of City Treasurer.....	\$ 4,000.00
(Premium and accrued interest paid on above bonds, \$133.33.)	

Improvement Bonds—

Outstanding December 31, 1907.....	\$ 849,701.24
Improvement bonds issued during 1908.....	1,032,965.04
	\$1,882,666.28
Improvement bonds redeemed during 1908.....	175,298.22
Outstanding December 31, 1908.....	1,707,368.06
	\$1,882,666.28

STREET IMPROVEMENT FUNDS

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908.
Taylor st.	\$ 1.41	\$ 160.26
Chapman st., Jefferson to Taylor.....	35.05	1,052.91
S. Front st., Gaines to First ave.....	18.55	88.14
S. 2nd st., Sheridan to Gibbs.....	63.15	251.52
Hood st., Marquam gulch to Grover.....	353.00	345.50
"M" st., 4th to 12th sts.....	43.16	68.37
Clinton st., E. 12th to E. 21st.....	62.73	532.28
Grand ave., E. Clay to E. Stark sts.....	2.36	2.36
N. 22nd st., "J" to "P" sts.....	22.66	22.66
Clinton st., E. 21st to E. 36th.....	21.92	88.18
Multnomah st., Grover to Curry.....	9.10	961.44
Belmont st., E. Water to E. 34th.....	12.00	12.00
Going st., Union ave. to E. line Highland..	57.25	85.27
Fourth st., "B" to "G".....	23.60	23.60
E. 24th st., formerly "A" st.....	29.96	29.96
Grand ave., E. Clay to E. Grant.....	1.47	1.47
E. 8th st., Ainsworth to Dekum.....	15.25	27.64
Columbia st., 3rd to Water.....	2.26	.77
Goldsmith st., 329 ft. to 802 ft. south of Page st.	.50	650.16
Umatilla ave., Willamette river to east line Sellwood	471.23	280.00
Tacoma ave., Willamette river to east line Sellwood	50.00	50.00
Morrison st., Front to Chapman.....	6.57	27.57
Grand ave., E. Grant to E. Caruthers.....	8.63	21.40
1st st., 100 ft. north to 100 ft. south of Grover st.	2.75	112.04
Cable st., Mill st. to Terrace road.....	171.75	60.51
Front st., Woods to Grover.....	2.75	43.78
Corbett st., 100 ft. north to 30 ft. south of Pennoyer st.	2.75	9.55
Elm st., 16th to Chapman.....	7.00	3.75
Front st., Madison to Burnside.....	5.94	5.94
Hood st., 50 ft. south of Skidmore to Curry	6.05	6.05
Jefferson st., 16th st. to City Park.....	6.15	9.58
Corbett st., Hood to Bancroft.....	259.14	401.80
Davis st., 12th to 14th.....	2.90	2.90

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908.
Union ave., 12 ft. south to 131 ft. north of Broadway	40.47	37.78
Front st., 150 ft. north to 70 ft. south of Lane st.	40.63	40.63
17th st., 60 ft. to 254 ft. north of Vaughn st..	24.71	24.71
Stark st., 7th to 12th.....	7.00	7.00
Rodney ave., Hancock to Knott.....	62.42	62.42
Failing st., Williams to Union ave.....	77.01	77.01
Front st., "Q" to 404 ft. south of north line of "Q" st.	36.33	36.33
Hancock st., 200 ft. east of E. 17th to E. 15th	1.41	1.41
E. 11th st., Belmont to E. Glisan.....	9.03	9.03
E. Burnside st., E. 8th to E. 28th st.....	80.43	1,928.05
Clackamas st., E. 15th to E. 24th st.....	2.60	.....
E. 19th, Multnomah to Weidler.....	136.79	.....
1st st., Madison to Stark.....	.28	183.59
Peninsular ave., Pippin st. to Columbia boul.	56.67	56.67
Sherman st., 6th st. to 300 ft. west of 6th st.	.16	.16
E. Salmon st., E. 15th to E. 33rd st.....	71.78	71.78
Washington st., "B" to City Park.....	9.48	9.48
Albina ave., Page to river.....	331.24	10,965.55
Hancock st., E. 24th st. to 200 ft. east of County road	16.54	16.54
3rd st., Main to Glisan.....	16.99	5,610.58
Front st., Arthur to Seymour.....	1.56	3,755.43
Overton st., 12th to 25th st.....	56.01	.....
Hood st., 88 ft. north to 58 ft. south of Sheridan st.	31.97	466.50
Arthur st., Hood to 1st.....	9.45	.....
Curry st., Multnomah to 2nd st.....	2.40	.....
4th st., Burnside to Glisan.....	79.17	79.17
10th st., Washington to Front.....	546.40	15.07
Mississippi ave., Morris to Prescott.....	3.18	1,252.86
Union ave., Alberta to Love's D. L. C.....	67.68	11,529.56
E. 22nd st., Dunn's add. to E. Burnside st.	.30	.30
Corbett st., Hood to Seymour.....	122.86	1.45
Pine st., Front to 6th.....	11.25	11.25
Front st. fill, 58 ft. south to 150 ft. north of Lane st.	37.02	1,175.00
Main st., Front to 14th st.....	2.67	.....
Corbett st. fill, 31.4 ft. south of, to 110 ft. north of Pennoyer st.....	144.23	1,156.46

	Balance Dec. 31. 1908.	War. Out'g Dec. 31, 1908.
1st st., Madison to Columbia.....	3.27	.....
Powell st., Milwaukee st. to E. 21st st....	31.46	77.24
1st st. fill at Grover st.....	203.51	1,111.39
Front st. fill at Woods st.....	603.87	2,160.00
E. Washington st., Union ave. to E. Water.	.30	3,249.98
Williams ave., McMillen to Morris.....	69.57	.....
Corbett st. fill at Grover st.....	59.58	500.00
E. Alder st., Union ave. to E. 10th st.....	6.42	.....
1st st., north to south line of Alder st....	18.49	16.71
16th st., Washington to Thurman st.....	75.65	74.34
Mallory ave., Mason to Going.....	.72	.72
E. 20th st., Hawthorne ave. to E. Yam-		
hill st.	.01	.....
Weidler st., E. 1st to E. 21st st.....	92.01	92.01
Clackamas st., Union ave. to E. 7th st.....	46.20	1,444.08
Brooklyn st., E. 10th to Milwaukee.....	3.16	.....
2nd st., Morrison to Glisan.....	3.96	768.32
Holladay ave., Larrabee st. to E. 12th st..	85.83	1,453.15
E. 30th st., Hawthorne ave. to E. Salmon st	.07	.....
Colfax st., Union to Garfield.....	1.48	5.59
16th st., College to Davenport.....	303.76	305.75
Lane st., Russell to Page.....	26.12	.....
14th st., Burnside to Savier.....	1,048.99	1,048.99
Marion ave., E. 9th to E. 19th.....	2,234.31	65.80
Dekum ave., Piedmont Park to Columbia		
Heights	7.87	4,453.04
Van Houten st., Strong st. to Columbia boul.	606.45	1,193.45
Hereford st., Dawson to Hodge.....	161.83	291.57
E. 34th st., Brooklyn st., to Powell Val-		
ley road	4,041.34	.....
Clackamas st., E. 24th to E. 28th st.....	49.88	149.15
E. Madison st., E. 34th to E. 37th st.....	2.62	187.22
Knott st., Union ave. to east line Albina...	81.83	81.83
Denver ave., Killingsworth ave. to Port-		
land boul.	30.97	30.97
Wheeler st., McMillen to between blocks 9		
and 10, E. Irving.....	9.95	9.95
E. 8th st., Knott to 255.5 ft. north of Sis-		
kiyou st.	3,360.40	.....
E. 10th st., Knott to 255.5 ft. north of Sis-		
kiyou st.	800.38	800.38
Claremont ave., Base Line road to Villa ave.	.16	.....

	Balance Dec. 31. 1908.	War. Out'g Dec. 31, 1908.
Ellsworth st., E. 7th to E. 8th.....	3.93	3.93
Jefferson st., Front to Chapman.....	456.12	1,562.09
Johnson st., 15th to 24th.....	517.45	517.45
E. Taylor st., E. 34th st. to Myrtle ave....	468.82	890.38
E. Stark st., E. 9th to E. 12th st.....	305.81	326.39
E. 26th st., Holladay ave. to Sandy road..	104.20	104.20
E. Morrison st., Union ave., to E. 7th st...	318.51	318.51
Tabor ave., Clinton to Ellsworth.....	209.48	332.66
Knott st., E. 7th to East 14th.....	13,412.90	440.48
Tabor ave., Clinton to Division.....	157.93	157.93
Clackamas ave., E. 9th to E. 8th.....	27.75	44.14
E. 18th st., Rhone to Karl.....	141.98	141.98
Stanton st., E. 7th to E. 14th.....	9,076.20	306.44
Glenn ave., Hawthorne ave. to E. Salmon st.	201.96	213.05
21st st., Spring to Clifton.....	22.52	.....
E. 6th st., Mason to Alberta.....	69.72	336.77
E. 44th st., Hawthorne ave. to lot "C" Haw-		
thorne add.	9.48	60.48
E. Stark st., E. 7th to E. Water st.....	3,552.63	3,552.63
Jordan st., Dawson to Butler.....	104.01	269.63
E. 19th st., Brazee to Knott.....	248.98	248.98
E. 27th st., E. Stark to E. Ankeny.....	280.76	280.76
E. 17th st., Tillamook to Knott.....	752.57	752.57
Vancouver ave., Broadway to Russell....	360.58	430.04
Ross st., Multnomah to Dixon.....	90.23	145.28
Frankfort st., Milwaukee st. to Feuer's add.	784.51	5,890.30
Clackamas ave., E. 9th to E. 19th.....	34.74	145.56
Vancouver ave. fill, Wheeler st. to Broadway	18.60	728.00
Fremont st., Multnomah to Central, Albina.	582.01	599.15
Siskiyou st., E. 7th to E. 14th.....	8,675.42	458.24
Hamilton ave., Corbett to Ohio.....	163.74	229.59
3rd st., Main to Hall.....	1,325.76	1,503.61
Crosby st., Cherry to McMillen.....	42.31	42.31
Ethel st., Ainsworth to Cambridge.....	40.34	57.17
E. Glisan st., E. 28th st. to Hawthorne's 1st		
add.	186.69	740.99
Loring st., Albina ave. to Randolph st....	349.28	1,106.00
E. 49th st., Hawthorne ave. to E. Salmon st.	1,134.89	1,178.05
Russell st., Delay to Goldsmith.....	330.53	330.53
E. 27th st., Clinton st. to north line Tract		
"S," E. Portland Heights.....	40.71	141.63
Clinton st., E. 37th to E. 36th.....	61.51	130.99

	Balance Dec. 31. 1908.	War. Out'g Dec. 31. 1908.
Franklin court, E. 28th st. to 226 ft. west of E. 28th st.	28.52	28.52
Fargo st., Williams to Vancouver.....	153.12	153.12
Knott st., Union to Williams ave.....	323.01	411.90
Flanders st., 19th to 23rd.....	1,041.41	1,314.39
E. 52nd st., Hawthorne ave. to E. Salmon st.	1,598.29	1,598.29
E. 51st st., Hawthorne ave. to E. Salmon st.	96.43	138.79
Fargo st., Vancouver to Gantenbein.....	76.55	76.55
Haven st., Dawson to Rutledge.....	117.71	519.50
E. Ash st., E. 28th st. to block 2, Man- ning's add.	72.55	465.92
E. 6th st., Fremont to Beech.....	94.00	413.71
E. 17th st., Belmont to E. Morrison st....	78.97	86.99
E. 37th st., E. Stark st. to Hawthorne ave..	292.99	776.80
E. 6th st., Ainsworth ave. to Woodlawn....	71.45	71.45
Grand ave., Shaver to Mason.....	35.78	36.04
Maegly st., Williams to Union ave.....	366.82	432.00
Williams ave., McMillen st. to block 59, Holladay	441.48	441.48
W. Park st., Stark to Yamhill.....	277.98	1,554.90
E. 16th st., Tillamook to Knott.....	620.20	1,050.74
Stark st., 4th to 3rd st.	66.80	354.17
Green ave., Ford to Park ave.....	289.29	4,353.63
12th st., Washington to Yamhill.....	393.05	1,781.31
Harding st., Goldsmith to River.....	216.51	2,707.31
Albina ave., Fremont to Skidmore.....	9.54	8,240.30
Goldsmith st., 772.2 ft. north of Wm. Irv- ing's D. L. C. to Albina ave.....	25.66	127.09
Blandena st., Michigan to Vancouver.....	217.17	2,874.87
E. 37th st., Franklin to Division.....	179.26	5,634.45
E. 9th st., Failing to Shaver.....	36.22	1,236.49
College st., 3rd to 4th st.....	47.20	47.20
Kelly st., E. 26th to E. 37th.....	10.31	8,549.44
E. 15th st., Umatilla to Lexington.....	161.76	2,305.87
Cherry st., Larrabee to Crosby.....	54.79	54.79
Gladstone ave., Kenilworth to east line of City	297.83	14,690.93
Tibbets st., E. 26th to E. 37th.....	157.91	7,596.29
E. 10th st., Going to Alberta.....	5.25	1,054.32
Francis ave., east line to west line Kenil- worth	326.20	14,129.20
E. 30th st., Alberta to North.....	345.65	9,938.26

	Balance Dec. 31. 1908.	War. Out'g Dec. 31. 1908.
Hannaforst st., Ellsworth to Division.....	59.01	1,893.82
Fern st., Dekum ave. to lot 7, block 6, Scof- fin's add.	104.54	1,094.28
E. 78th st., Base Line road to E. Glisan st..	213.13	2,617.53
Garfield ave., Shaver to Alberta.....	143.21	3,919.66
Central ave., Belmont st. to Base Line road.	308.31	2,170.18
E. 18th st., Tillamook to Brazee.....	40.04	5,276.60
Dwight st., Dawson st. to Willis boul.....	290.40	2,345.50
Killingsworth ave., Union to Patton.....	199.68	72,096.40
W. ½ E. 41st st., Division to Ellsworth....	50.35	723.01
Rockwell st., Madrona st., to block 1, Wood- lawn	206.50	809.13
Hood st., Grover to Lane.....	475.80	3,184.47
Belmont st., E. 34th st. to Sunnyside 3rd add.	498.65	8,168.48
Curtis st., Portland boul. to Pippin st.....	201.02	4,146.37
Haven st., Princeton st. to Dawson st....	188.30	3,004.50
12th st., Washington to Hoyt.....	978.55	19,905.45
Montana ave., Killingsworth ave. to Pres- cott st.	29.21	.....
N. 18th st., "M" to Sherlock add.....	.....	86.44
Williams ave., Grant to Going.....	.....	2,500.00
5th st., "C" to "I".....	.....	65.34
"G" st., east to West End.....	.....	4.62
Water st., (planking) .....	.....	86.22
E. 8th st., E. Flanders to Riverside Home- stead .....	.....	1,025.53
E. Yamhill st., E. Water st. to Union ave..	.....	1,251.97
Water and Hood sts. ....	.....	4.50
10th st., Hoyt to Northrup.....	.....	2,879.79
Main st., Chapman to King.....	.....	237.40
Kelly st., Grover st. to Seymour ave.....	.....	506.79
Thurman st., 14th to Rugby.....	.....	34.20
Kelly st., Hamilton ave. to Macadam road.	.....	109.28
4th st., Glisan to Jefferson.....	.....	.05
E. 24th st., Multnomah to Halsey.....	.....	203.43
Broadway st., Carter's add. to County road.	.....	289.48
River st., Albina ave. to 100 ft. south there- from .....	.....	477.05
Albina ave., Page to River.....	.....	220.53
Macadam st., Grover st. to blocks 188-187..	.....	406.95
17th st., Vaughn to Marshall.....	.....	3,275.30
Goldsmith st., Albina ave. to Russell st....	.....	7,760.47

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908.
Karl st., Milwaukee st. to E. 20th st.....		3,814.28
1st st., 100 ft. south of Grover st. to Gaines.....		45.03
Rodney ave., Knott to Morris.....		1.24
E. 12th st., Powell to Frederick.....		277.47
Ainsworth ave., Union ave. to E. 19th st....		68.07
Union ave., Belmont st. to Hawthorne ave....	2,852.97	
Upshur st., 26th st. to N. Portland.....	313.75	
Thurman st., Rugby st. to P. Guild's D. L. C.....	27.25	
Fremont st., E. 8th st. to Union ave.....	565.14	
Shaver st., Union ave. to E. 12th.....	462.05	
Hooker st., 3rd st. to terminal line of Hooker.....	310.98	
Vancouver ave., Morris to Fremont.....	47.34	
Couch st., 1st to 14th.....	423.58	
E. 28th st., Bridge to Wasco.....	24.88	
Grand ave., E. Stark to E. Oak.....	7,759.52	
Grand ave., E. Yamhill to E. Taylor.....	448.25	
E. 20th st., E. Stark to E. Burnside.....	22.52	
1st st., Columbia st. to Bridge between Sheridan and Arthur.....		117.86
Nehalem ave., E. 9th to E. 19th.....		42.00
E. Ash st., E. 22nd to E. 28th.....		75.81
Montana ave., Portland boul. to Raymond st.....		257.03
Minnesota ave., Killingsworth ave. to N. Albina.....		6.16
E. 6th st., E. Everett to E. Oak.....		316.61
Union ave., E. Oak to Belmont.....		7.85
Fiske st., Dawson to Trenton.....		182.99
Jarrett st., Patton ave. to Havelock.....		76.75
Francis ave., Belmont st. to Base Line road.....		75.13
E. 6th st., E. Washington to E. Sherman..		30.38
Denver ave., Killingsworth ave. to Portland boul.		1,517.00
Union ave., E. Glisan st. to Holladay ave....		26.74
E. Oak st., Union ave. to E. 6th st.....	5,462.68	
Belmont st., E. Water st. to Union ave.....	87.15	
Belmont st., E. 20th to E. 34th.....	356.10	
E. 16th st., E. Taylor st. to Hawthorne ave.....	770.91	
Hibbard st., Hibbard's add. to Base Line rd.....	164.41	
Shaver st., Union ave. to Williams ave.	180.45	
Grand ave., Prescott to Mason.....	26.51	
E. Oak st., E. Water to E. 2nd.....	4,087.11	
Elsmere ave., Division st. to Hawthorne ave.....		3.87

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908.
E. 9th st., Millers ave. to south line Sellwood		41.90
Gantenbein ave., Morris st., to block 4, Albina		261.65
Oak st., 4th to 6th.....		42.00
Prescott st., Mississippi ave. to Maryland		167.79
Rodney ave., Fremont to Beach.....		89.97
Vancouver ave., Fremont to Alberta.....		194.40
Page st., Albina ave. to Ross.....		1,581.16
Chapman st., Spring to Elizabeth.....		1,103.79
Elizabeth st., 16th to 20th.....		807.02
Spokane ave., Grand ave. to E. 19th st....		202.82
Rhine st., Milwaukee st. to Feurer's add.		1,550.18
Laurel st., Chapman to Montgomery drive.....		440.61
Robsart st., E. 40th st. to Waverleigh Hts.		600.36
26th st., Marshall to Northrup.....		4,121.85
E. Salmon st., E. 12th to E. 15th st.....		1,898.24
Goldsmith st., Wm. Irving's D. L. C. to 298.2 ft. north		1,288.71
Larrabee st., D. Shaver's add. to Wm. Irv- ing's D. L. C.		195.03
Elm st., 16th st. to Montgomery drive.....		11,378.41
E. Grant st., Marguerite ave. to Park View extended		2,349.14
E. 68th st., E. Yamhill st. to E. Pine st....		5,266.88
Kelly st., E. 37th st. to Waverleigh Heights		3,123.53
Tibbetts st., E. 37th st. to Waverleigh Hts.		4,385.26
Belmont st., E. 8th to E. 9th.....		1,958.80
Fargo st., Gantenbein ave. to Borthwick st.....		3,815.59
Mabel st., Hamilton to Seymour ave.....		1,642.26
E. 67th st., E. Stark to E. Pine st.....		1,304.39
E. 21st st., Knott to Thompson.....		9,510.07
E. 50th st., Hawthorne ave. to E. Salmon st.....		1,984.99
Newton st., Vaughn st. to northerly term- inus of Newton st.....		2,939.51
Allen block 5, Proebstels, Morris st. to Stanton st.		288.13
	\$ 75,269.45	\$ 432,209.74

SEWER FUNDS

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908.
Whitaker st., 100 ft. east of Kelly to Thomas creek	\$ 1.05	92.00
Cook ave. district	37.19	250.00
Williams ave., 100 ft. south of Alberta st. to Fremont st.	5.60	42.00
E. Alder st. and E. 7th st., et al.	14.78	.....
Tanner creek	76.66	1,600.00
Ross st., Dixon to Hancock.....	.02	.....
Florida st., 380 ft. west of Virginia st., to Macadam st.	50.00	50.00
Irvington district	143.39	1,547.24
E. 16th st., Siskiyou to Knott.....	106.70	106.70
E. 17th st., Siskiyou to Knott.....	117.65	117.65
E. 21st st., Siskiyou to Knott.....	92.72	92.72
E. 19th st., Knott to Klickitat.....	109.92	109.92
E. Madison st., east line Sunnyside add. to near E. 41st st.	13.80	46.10
E. 29th st., 100 ft. south of E. Pine to E. Stark st.	.70	194.80
7th st., Irving to Hoyt.....	12.50	183.90
Thurman st., easterly line lot 27 Blyths- wood to Thurman st.	94.85	350.00
E. 28th st., 100 ft. north of E. Stark st. to E. Pine st.	63.75	315.45
Vaughn st., alley between blocks 29 and 31, Willamette Heights to Newton st....	7.80	50.00
E. 2nd st., E. Taylor st. to E. Alder st....	2.50	225.00
16th st., Jackson to Harrison.....	81.35	698.75
E. 15th st., 150 ft. north of Tillamook st. to Thompson st.	30.00	161.40
Chain Sewers Irvington, E. 8th, 9th, 11th, 12th, 13th, Siskiyou sts., et al.....	5.80	15,075.40
Portland Heights district.....	.....	642.21
1st st., Whitaker to Grover.....	.....	34.16
Chain Sewers Shaver, E. 12th, Failing sts., et al. ....	.....	86.20
E. 18th st., Knott to Klickitat.....	.....	2,455.60
	\$ 1,068.73	\$ 24,527.20

STREET EXTENSION FUNDS

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908.
Heights Terrace	\$ 10.00	\$ 10.00
Clinton st., E. 12th to Milwaukee.....	23.00	.....
E. Burnside st., E. 28th st. to Goodsell ave.	.50	8.00
15th st., Terminal to Front.....	14.40	.....
St. Helens road, Front to 29th.....	110.15	.....
16th st., Upshur to Front.....	7.75	.....
Peninsular ave., Baldwin st. to Willis boul...	39.00	.....
Nevada st.	4.00	4.00
Union ave., Alberta st. to Love D. L. C....	3.74	3.74
Clinton st., E. 36th to E. 37th.....	73.68	.....
E. 15th st., Belmont to E. Yamhill.....	14.00	14.00
Dekum ave., Camden st. to Vancouver County road	14.00	14.00
E. 17th st., E. Taylor st. to Brown's Add...	172.00	172.00
Francis ave., block 11 to block 1, Kenil- worth	22.00	27.00
Belmont st., Prettyman ave. to city limits..	16.00	10.00
E. 29th st., Broadway to Tillamook.....	57.00	57.00
Elsmere ave., Hawthorne ave. to Division st.	15.00	15.00
E. 26th st., Hawthorne ave. to Dolan's Add.	70.85	35.00
Dekum ave., Camden st. to Vancouver county road	190.40	190.40
Emerald ave., Pippin st. to Willis boul.....	28.65	28.65
E. 16th st., Highland Park to Howe st.....	84.50	84.50
Crown ave., Alpin to Davenport st.....	670.40	670.40
Burrage st., Pippin to Farragut.....	20.67	20.67
Orange st., Paradise Springs tract to Myrtle ave.	248.00	248.00
E. 19th st., Powell to Edgar.....	150.00	150.00
Portland boul., Vancouver ave. to Union ave.	172.17	.....
E. 17th st., Highland Park to Howe st....	170.96	.....
Brush st., Brush's Add. to Tibbetts st.....	474.00	.....
E. 35th st., lot "K," E. Portland Heights, to Ellsworth st.	116.05	116.05
E. 33d st., lot "M," E. Portland Heights, to Ellsworth st.	163.90	163.90
E. 29th st., lot "Q," E. Portland Heights, to Ellsworth st.	100.40	4.40
E. 27th st., lot "S," E. Portland Heights, to Ellsworth st.	117.80	117.80
E. 34th st., lot "L," E. Portland Heights, to Ellsworth st.	102.45	102.45

	Balance Dec. 31, 1908.	War. Out'g Dec. 31, 1908
E. 32d st., lot "N," E. Portland Heights, to Ellsworth st.	148.90	148.90
E. 32d st., Brooklyn to Ellsworth.....	168.00	168.00
E. 30th st., lot "P," E. Portland Heights, to Ellsworth st.	180.20	180.20
E. 28th st., lot "R," E. Portland Heights, to Ellsworth st.	79.90	40.90
E. 6th st., block 1, Woodlawn Heights, to Dekum ave.	505.54	505.54
Pearl st., Mount Tabor Villa Annex, to Hibbard st.	417.50	417.50
Clinton st., Ravenswood to E. 37th st....	30.00	30.00
Emerald st., Pippin st. to Willis boul.....	48.00	48.00
E. 26th st., Hawthorne ave. to Dolan's Add.	273.00	273.00
E. 7th st., Brazee to Fremont st.....	622.85	622.85
E. 7th st., block 22, Woodlawn to Magnolia st.	43.00	43.00
Fremont st., Vancouver ave. to block 34, Central Albina	2,832.00	.....
E. 39th st., E. Salmon st. to E. Stark st....	264.60	264.60
E. 36th st., lot "J," E. Portland Heights, to Ellsworth st.	345.00	.....
Sandy road, E. 16th to E. 28th st.....	1,138.50	1,138.50
E. Salmon st., Sunnyside Add., to Glencoe Park	285.00	.....
Patton ave., Portland boul. to Columbia boul.	75.00	75.00
E. 34th st., Sandy road to Section 25, T. 1 N., R. 1 E., W. M.....	55.00	55.00
Villard ave., Pippin st. to Portland boul....	264.79	.....
Heights Terrace, College to Harrison st..	1,751.75	.....
E. Everett st., Byrne's add. to Bronaugh's add.	105.70	.....
E. Flanders st., Byrne's add. to Bronaugh's add.	102.20	.....
E. Burnside st., E. 30th st. to T. Quinn's D. L. C.	1,418.00	.....
Fern st., Scoffin's add. to E. 13th st.....	74.00	.....
Prescott st., E. 24th st. to county road....	568.00	.....
E. 13th st., Morgan st. to Scoffin's add....	74.00	.....
E. 30th st., E. Stark st. to Hawthorne ave..	143.70	.....
Sumner st., Minnesota ave. to tract "O," M. Patton tract	145.25	.....

13th st., Washington to Stark st.....	167.00	.....
S. 4th st.		150.00
N. 22d st.		1.00
Ellsworth st., E. 6th to E. 9th st.....		70.00
	<u>\$ 15,803.80</u>	<u>\$ 6,498.95</u>

STREET IMPROVEMENT, SEWER AND STREET EXTENSION FUND

Balances December 31, 1908.

Street Improvement Fund—

Warrants outstanding December 31, 1907..\$	199,700.23	
Warrants drawn during year 1908.....	1,913,199.96	
		\$2,112,900.19
Warrants paid during year 1908.....\$	1,517,573.05	
Warrants canceled during year 1908.....	163,117.40	
Warrants outstanding December 31, 1908..	432,209.74	
		\$2,112,900.19

Sewer Fund—

Warrants outstanding December 31, 1907..\$	15,536.80	
Warrants drawn during year 1908.....	118,211.94	
		\$ 133,748.74
Warrants paid during year 1908.....\$	107,938.10	
Warrants canceled during year 1908.....	1,283.44	
Warrants outstanding December 31, 1908...	24,527.20	
		\$ 133,748.74

Street Extension Fund—

Warrants outstanding December 31, 1907..\$	2,444.18	
Warrants drawn during year 1908.....	17,571.49	
		\$ 20,015.67
Warrants paid during year 1908.....\$	13,499.97	
Warrants canceled during year 1908.....	16.75	
Warrants outstanding December 31, 1908.	6,498.95	
		\$ 20,015.67

INVENTORY OF PROPERTY, REAL AND PERSONAL, BELONGING TO THE CITY OF PORTLAND

Park Blocks in City—

Block 7	\$ 75,000.00
Block 8	65,000.00
Block 9	70,000.00
Block 10	70,000.00
Block 11	50,000.00
Block 12	45,000.00
Block 13	40,000.00
Block 14	35,000.00
Block 15	35,000.00
Block 16	35,000.00
Block 17	30,000.00
Block 18	30,000.00
Block 19	30,000.00
Block 20 (fractional)	12,500.00
	\$ 622,500.00

Park Blocks in Couch Addition—

Block A (fractional)	\$ 50,000.00
Block B, 100x200	75,000.00
Block C, 100x200	55,000.00
Block D, 100x200	50,000.00
Block E, 100x200	50,000.00
Block F, 100x200	60,000.00
	\$ 340,000.00

Public Squares—

Block 53, 200x200, between Salmon and Main, Third and Fourth sts.	\$ 250,000.00
Block 54, 200x200, between Main and Madison, Third and Fourth sts.	250,000.00
	\$ 500,000.00

Market Square—

Block 132, 200x200, between Clay and Market, Second and Third sts.	\$ 100,000.00
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City Park Proper—

40.78 acres lying between Washington and Jefferson sts....	\$ 250,000.00
Five-acre tract in Terwilliger D. L. C., adjoining Eliz. Caruthers' D. L. C.....	30,000.00
	<u>\$ 280,000.00</u>

Forestry Building and Site—

Commencing at the southwest corner of block 20, in North Portland, said point being in the north line of Upshur st., 274.41 feet westerly, measured along the north line of Upshur st. from the west line of 27th st.; thence west along the north line of Upshur st. 205.59 feet to a point; thence southerly at right angles to last line 30 feet; thence westerly at right angles to last line and on a line 30 feet northerly from and parallel with the south line of Upshur st. 155.76 feet to a point; thence northerly at right angles to the last line 290 feet to a point in a westerly extension of its present course of the north line of Vaughn st.; thence easterly along said westerly extension of the north line of Vaughn st. 155.76 feet; thence southerly at right angles to last line 60 feet to a point in the south line of Vaughn st.; thence easterly along said south line of Vaughn st. 213.9 feet, more or less, to the northwest corner of block 20, North Portland; thence southerly along the westerly boundary of said block 20, 200.17 feet, to the place of beginning, containing two acres; also all right, title and reversionary interest in and to the north one-half of the west 80 feet of Vaughn st., in the event that said west 80 feet of Vaughn st., or any portion thereof, should be vacated at some future time

\$ 25,000.00

Ladd's Addition—

Central Park	\$ 5,000.00
North Park	1,000.00
South Park	1,000.00
West Park	1,000.00
East Park	1,000.00
	<u>\$ 9,000.00</u>

Holladay's Addition—

132 Park block	\$ 15,000.00
133 Park block	15,000.00
140 Park block	15,000.00
141 Park block	15,000.00
	<u>\$ 60,000.00</u>

Macleay Park—

107.78 acres, beginning at quarter section corner, between sections 31 and 32, T. 1 S., N. of R. 1 E.....	\$ 26,950.00
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Governor's Park—

1.815 acres in section 4, 1 S., 1 E.; 1 acre in section 4, 1 S., 1 E.; 2 acres in section 4, 1 S., 1 E.....	\$ 10,000.00
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Albina—

Park near John Mock's place, and being part of section 8, 1 N., 1 E., containing 29.46 acres.....	\$ 45,000.00
Park block 9, Albina Homestead (all of block).....	16,000.00
	<u>\$ 61,000.00</u>

Sellwood—

Lots 12, 13, 14, 15, 16, 17 and 18, block 104.....	\$ 850.00
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Fulton—

The following described parcel of real estate situate, lying and being in the County of Multnomah and State of Oregon, to-wit: All of blocks numbered five (5), six (6), fourteen (14), fifteen (15) and twenty (20), and lots numbered five (5), six (6), seven (7), eight (8), nine (9), ten (10), eleven (11), twelve (12), thirteen (13), fourteen (14), fifteen (15), sixteen (16), seventeen (17), eighteen (18), nineteen (19), twenty (20), twenty-one (21), twenty-two (22), twenty-three (23), twenty-four (24), and twenty-five (25), in block num-

bered eighteen (18), and lots numbered one (1), two (2), three (3), four (4), and five (5), in block numbered nineteen (19), all in Fulton Park, as shown by the plat thereof, duly recorded in Book 114, on page 4, of the Records of Deeds of Multnomah County. Also the following described tract of land situate in Fulton Park in the county and state aforesaid: Commencing at a point which is the southeast corner of lot numbered nine (9), in block numbered nineteen (19), in said Fulton Park; and running thence along the south line of block numbered nineteen (19), to the southwest corner of lot numbered one (1), in said block nineteen (19); thence westerly in a straight line to the southeast corner of block numbered twenty (20), in said Fulton Park; thence southwesterly along the south line of said block numbered twenty (20) to the southwest corner thereof; thence southerly in a straight line to the northwest corner of block numbered twenty-four (24), in said Fulton Park; thence east along the north line of said block twenty-four (24), and continuing to a point sixty (60) feet east of the northeast corner of the said block numbered twenty-four (24); thence south to a point in the north line of the road immediately north of the north line of block numbered twenty-six (26), in said Fulton Park; thence northerly and easterly following the north line of said road to a point immediately north of the northeast corner of lot numbered eighteen (18), in said block numbered twenty-six (26); thence north to the place of beginning. Also the following described tract of land situate in sections fifteen (15) and sixteen (16), in township one (1), south of range one (1), east of the Willamette Meridian, in the county and state aforesaid; commencing at a point in the north line of Hill street, as shown by said recorded plat of Fulton Park, which is directly north of the northeast corner of lot numbered seven (7), in block numbered sixteen (16), in said Fulton Park, as shown by said plat; running thence westerly along said north line of Hill street to the intersection of said Hill street with boulevard, as shown in said plat, to the east line of block numbered six (6), in said Fulton Park; thence north along said east line of said block numbered six (6), and in an extension in a

straight line to the south line of block numbered five (5), in said Fulton Park; thence easterly along the south line of said block numbered five (5), in Fulton Park, and along the south line of the Slavin county road, to a point in the said south line of the Slavin road directly south of the southeast corner of lot numbered fourteen (14), in block numbered four (4), in Fulton Park, as shown by said plat thereof, recorded at page 4, Book 114, of the Records of Deeds of Multnomah County, Oregon, and thence south to the place of beginning. Value.....\$ 3,000.00

Crematory—

Crematory, north of St. Helens road in the Poole tract,
4.98 acres and improvements.....\$ 30,000.00

City Barn—

West Side, block 1, lots 5, 8, 9, 10, 11, 12 Davenport tract.\$ 30,000.00
East Side, block 251, lots 1, 2 and 8, Holladay's addition.. 18,500.00
\$ 48,500.00

Hospital for Contagious Diseases—

Two acres in Tract D, section 5, 1 s., 1 e.....\$ 2,500.00

Unimproved Lots and Blocks—

Block 14, Proebstel's Addition to Albina, lots 12, 13, 14
and 15\$ 3,200.00

Police Department—

Block 30, lot 4, police court, city.....\$ 30,000.00
Block 56, ne. 25 ft. lot 3, ne. 25 ft. lot 4, Albina..... 2,000.00
Block 1, s. 50 ft. lot 1, Albina..... 3,850.00
\$ 35,850.00

Fire Department—

Block 30, n. $\frac{1}{2}$ lot 3, City, engine house.....	\$ 15,000.00
Block 9, n. $\frac{1}{2}$ lot 4, City, engine house.....	15,000.00
Block 50, lot 6, City, engine house.....	65,000.00
Block 143, lot 6, City, engine house.....	6,500.00
Block 315, e. $\frac{1}{2}$ lot 8, City, engine house.....	25,000.00
50x95, ne. cor. Third and Glisan sts., Couch add.....	45,000.00
Block 128, lot 3, Caruthers add., engine house.....	4,000.00
Block 291, lot 2, Couch add., engine house.....	6,500.00
Block 99, e. $\frac{1}{2}$ lots 2 and 3, Couch add., engine house....	15,000.00
Block 76, s. $\frac{1}{2}$ lot 7, Stephens add., engine house.....	2,500.00
Block 47, n. $\frac{1}{2}$ lot 6, Holladay add., engine house.....	2,250.00
Block 29, lot 14, Albina homestead, engine house.....	1,000.00
Block 10, lot 11, Proebstel's add.	1,000.00
Block 14, lot 13, Multnomah, engine house.....	2,000.00
House only for No. 8 Engine Co. on Russell st., Albina..	3,000.00
Block 57, lots 12 and 13, Sellwood, engine house.....	3,500.00
50x100, Macadam road, engine house.....	4,000.00
Block 5, lot 4, Wynkoop Villa, engine house.....	5,000.00
Block 71, lot 5, Holladay add., engine house.....	9,950.00
Block 104, lot 5, Grover's add., engine house.....	10,197.00
Block 20, lot 6, Sunnyside add., engine house.....	4,000.00
Block 5, lot 6, Maegly Highland, engine house.....	6,000.00
100x100, nw. cor. E. 12th and Powell sts. (engine house)..	6,000.00
Fire boat	60,000.00
Fire boat house and dock.....	10,000.00
Block 3, n. $\frac{1}{2}$ lots 13, 14, 15 and 16, Frush's square.....	15,000.00
Block 3, lot 16, King's 2nd add.	4,250.00
Block 26, lot 20, Albina	4,500.00
Block 1, lot 14, E. Irvington.....	1,100.00
Block 1, lot 15, E. Irvington.....	1,000.00
Block 1, lots 7 and 10, subdivision "Z," City.....	6,750.00
	\$ 359,997.00
City Hall block	\$ 600,000.00
City Water Works and lands belonging thereto.....	8,008,361.94
(For list of property belonging to Water Works see report of Water Board.)	
Personal property Fire Department.....	326,350.00
Personal property Police Department.....	1,500.00
Personal property Street Cleaning and Sprinkling Dept...	30,000.00
Personal property Pound Department	1,450.00
Personal property City Hall, including museum, furniture, fixtures, etc., not included in the above.....	45,000.00
Personal property City Engineer's Department.....	11,000.00

Bridges and Ferries—

Madison street bridge.....	\$ 10,000.00
Morrison street bridge	330,000.00
Burnside street bridge.....	220,000.00
Albina ferry boat	13,365.00
Albina ferry boat (new)	20,250.00
Sellwood ferry boat.....	12,150.00
	\$ 605,765.00

New Albina Ferry Approaches—

N. 25 ft. of lot 21, river block 2; s. 5 ft. of lot 22, river block 2	\$ 19,100.00
N. 35 ft. of s. 75 ft. lot 21, river block 2.....	11,800.00
65 ft. from se. side of river, lot 9, Albina.....	16,000.00
	\$ 46,900.00

Street improvement warrants surrendered to the City for general fund warrants by authority of Council (of uncertain value); face value	\$ 9,571.43
Street improvement and sewer warrants drawn in favor of City to cover expenses of engineering and advertising	43,942.12

SUMMARY

Park blocks in City	\$ 622,500.00
Park blocks in Couch add.	340,000.00
Public squares	500,000.00
Market square	100,000.00
City Park proper	250,000.00
Five acres Terwilliger tract	30,000.00
Forestry building and land.....	25,000.00
Five small parks in Ladd's add.....	9,000.00
Four park blocks in Holladay add.....	60,000.00
Macleay Park	26,950.00
Governor Park	10,000.00
City Park in Mock's tract.....	45,000.00

Block 9, Albina homestead.....	16,000.00
Fulton Park	3,000.00
Sellwood, block 104, lots 12, 13, 14, 15, 16, 17 and 18.....	850.00
Crematory, N. St. Helens road.....	30,000.00
City barn and ground, West Side.....	30,000.00
City barn and ground, East Side.....	18,500.00
Block 30, lot 4, City.....	30,000.00
Block 56, ne. 25 ft. lot 3, ne. 25 ft. lot 4, Albina.....	2,000.00
Block 1, s. 50 ft. lot 1, Albina.....	3,850.00
Pest house and property.....	2,500.00
Lots 12, 13, 14 and 15, block 14, Proebstel's add.....	3,200.00
Buildings and ground belonging to Fire Department...	359,997.00
City Hall	600,000.00
Bridges and ferries.....	605,765.00
City Water Works and real property.....	8,008,361.94
Personal property Fire Department.....	326,350.00
Personal property Police Department.....	1,500.00
Personal property Street Cleaning and Sprinkling Dept...	22,000.00
Personal property Pound Department.....	1,450.00
Personal property City Engineer's Department.....	11,000.00
Albina ferry approaches	46,900.00
Personal property City Hall, Museum, furniture, etc....	45,000.00
Street improvement warrants, face value.....	9,571.43
Street improvement, sewer and street extension war- rants	43,942.12
Available cash balances, exclusive of street improvement, sewer and street extension funds; the improvement bond and improvement bond sinking fund, improve- ment bond interest, street and sewer interest funds, police and fire relief fund and redemption fund....	1,038,757.94
Water bond sinking fund investment; street improve- ment bonds purchased	179,262.72
Improvement bond sinking fund investments.....	51,388.46
Police and Fire Department relief fund investments...	4,000.00
Total resources	\$13,513,596.61

LIABILITIES

Bonded debt	\$6,226,500.00
Interest coupons due January 1, 1909.....	110,875.00
Light claim for December, 1908.....	5,717.29
	<u>\$6,343,092.29</u>
Balance	\$7,170,504.32

PROPERTY IN POSSESSION OF THE CITY BY VIRTUE OF CHIEF OF POLICE SALE

Lot 5, block 52, Caruthers' Addition; purchased September 12, 1871, for improvement of South First street.

Lot 6, block 52, Caruthers' Addition; purchased September 12, 1871, for improvement of South First Street.

Lot 7, block 52, Caruthers' Addition; purchased September 12, 1871, for improvement of South First street.

Lot 8, block 52, Caruthers' Addition; purchased September 12, 1871, for improvement of South First street.

West half of tract of land 40 feet wide, lying between and bounded by blocks 51 and 52, Caruthers' Addition; purchased September 12, 1871, for improvement of South First street.

East half of a strip of land 40 feet wide, bounded by blocks 60 and 61, Caruthers' Addition; purchased September 12, 1871, for improvement of South First street.

The south half of the northwest quarter of the fractional block lying between Pine, A, Fifth and Seventh streets; purchased February 10, 1872, for the improvement of Pine and North Seventh streets.

A tract of land bounded on the south by the north line of block 103, in Caruthers' Addition; on the east by the west line of the proposed extension of Hood street; on the north by a line parallel with and 100 feet north of the north line of block 103, and on the west by a line parallel with and 100 feet west of the west line of the proposed extension of Hood street to its junction with Water street. Purchased May 14, 1884, for the extension of to its junction with Water street.

The east half of lot 5, block E, Caruthers' Addition; purchased June 18, 1884, for the improvement of Front and South Front streets.

A tract of land in Caruthers' Addition and bounded and described as beginning at a point where the easterly extension of the north line of Lincoln street intersects the east line of the proposed extension of Hood street; thence northerly along said line 150 feet; thence easterly in a line parallel with and 50 feet southerly from the north

line of Caruthers' donation land claim, 100 feet east of the east line of the proposed extension of Hood street, 150 feet; thence easterly on a line conforming to an easterly extension of the north line of Lincoln street, 100 feet to the place of beginning; purchased April 2, 1885, for the extension of Hood street.

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

A tract of land lying between the division line between the north and south halves of the Blackistone donation land claim and the south boundary line of Sherlock's Addition, and between the east side line of the proposed extension of North Twenty-first street and a line parallel therewith and 100 feet easterly therefrom in the City of Portland; purchased April 2, 1885, for the extension of North Twenty-first street.

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

Lot 4, block 3, Carter's Addition; purchased February 5, 1885, for the improvement of Fifteenth street.

A triangular piece of land lying between Washington street, B street and Lownsdale street; purchased November 7, 1883, for the improvement of B street.

Lots 1, 2, 3 and 4, block 10, Carter's Addition; purchased February 5, 1885, for the improvement of Fifteenth street.

Lot 5, in block opposite A, in Caruthers' Addition; purchased April 23, 1885, for the improvement of Hood street.

Lots 5, 6, 7 and 8, block 45, in Caruthers' Addition; purchased February 5, 1885, for the extension of South Front street.

Lot 9, block B, Caruthers' Addition; purchased June 11, 1885, for the improvement of Hood street.

Lots 2 and 3, block 3, Carter's Addition; purchased February 5, 1885, for the improvement of Fifteenth street.

North 21 feet of south $\frac{1}{2}$ of lot 1, block A, Caruthers' Addition; purchased for the improvement of Hood street.

Lot 7, block 113, Caruthers' Addition; purchased April 16, 1888, for the improvement of South First street.

A tract of land which lies between the east line of North Twenty-first street and the west line of Blackistone street, in Sherlock's Addition, and the division line between the north and south halves of William Blackistone's donation land claim, and a line 100 feet south-

erly from and parallel with the south line of X street, saving and excepting the part of lots 1 and 4 which lie in the southeast quarter of block 6, in Sherlock's Addition; purchased January 16, 1890, for the extension of Wilson street.

A tract of land which lies between the west line of North Eighteenth street and 20 feet west of the west line of North Nineteenth street if extended, and between the north line of the proposed extension of Wilson street and the division line between the north and south halves of Blackistone's donation land claim, and between a line 100 feet northerly from and parallel with the north line of the proposed extension of Wilson street and the southeasterly side line of Sherlock's Addition; purchased January 16, 1890, for the extension of Wilson street.

All that part of Doscher's tract which lies between the east line of Blackistone street, in Sherlock's Addition, and the west line of North Twentieth street, and the division line of the north and south halves of Blackistone's donation land claim; and a line 100 feet southerly from and parallel with the south line of X street; purchased January 16, 1890, for the extension of Wilson street.

A tract of land which lies between the west line of North Sixteenth street and North Front street and the east line of North Eighteenth street, and between the north line of the proposed extension of Wilson street and a line 100 feet northerly from and parallel with the north line of the proposed extension of Wilson street, excepting the right of way of the Northern Pacific Company and the Northern Terminal Company; purchased January 16, 1890, for the extension of Wilson street.

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

Lot 5, block C, Caruthers' Addition; purchased June 18, 1884, for improvement of Front and South Front streets.

The east $\frac{1}{2}$ of lot 4, south $\frac{1}{2}$ of block 1, City; purchased June 25, 1885, for the improvement of Tenth street.

The fractional block between Ankeny, Pine, Sixth and Seventh streets; purchased June 19, 1877, for the improvement of Ankeny street, North Front to West Park streets.

Lot 2, block 2, Frush Square; purchased November 2, 1872, for the improvement of J street.

Lot 6, block 1, Frush Square; purchased November 2, 1872, for the improvement of J street.

Lot 5, block 1, Frush Square; purchased November 2, 1872, for the improvement of J street.

Lot 7, block 1, Frush Square; purchased November 2, 1872, for the improvement of J street.

Undivided $\frac{1}{2}$ of lot 7, block 216, Holladay's Addition; purchased August 7, 1887, for the improvement of Fourth street.

3x100 feet on the east side of lots 5, 6, block 62, East Portland; purchased December 10, 1883, for the improvement of Third street.

Lots 15, 16, containing $12\frac{1}{2}$ acres of land, Riverside Homestead; purchased July 17, 1880, for taxes.

Lot 4, block 106, Stephens' Addition; purchased July 17, 1880, for taxes.

Lot 2, block 79, Holladay's Addition; purchased July 17, 1880, for taxes.

Seven acres, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

Ten acres, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

Five acres, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

Two acres, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

Five acres, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

Two acres, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

One acre, Section 11, T. 1 S., R. 1 E.; purchased July 17, 1880, for taxes.

East $\frac{1}{2}$ of lots 3, 4, block 21, East Portland; purchased July 17, 1880, for taxes.

Lots 1, 2, block 1, McMillen's Addition; purchased July 17, 1880, for taxes.

Lot 9, block 14, Multnomah; purchased September 12, 1895, for the improvement of Mississippi avenue.

Lot 8, block 133, Caruthers' Addition to Caruthers' Addition; purchased September 12, 1895, for the improvement of Whitaker street.

A tract of land described as follows: Beginning at a point on the west line of South Second street, 200 feet south of the south line of Sheridan street; run thence westerly 100 feet; thence southerly 20 feet; thence easterly 100 feet; thence northerly 20 feet, to place of beginning; purchased April 30, 1896, for the improvement of South Second street from Sheridan to Gibbs street.

A tract of land described as follows: Beginning at a point on the west line of South Second street 220 feet south of the south line of Sheridan street; run thence westerly 100 feet; thence southerly 20 feet, thence easterly 100 feet; thence northerly 20 feet to the place of beginning; purchased April 30, 1895, for the improvement of South Second street from Sheridan to Gibbs street.

A tract of land described as follows: Beginning at a point on the east line of South Second street, 220 feet south of the south line of Sheridan street; run thence easterly 100 feet; thence southerly 20 feet; thence westerly 100 feet; thence northerly 20 feet to place of beginning; purchased April 30, 1896, for the improvement of South Second street from Sheridan to Gibbs street.

Lot 8, block 38, Carter's Addition to the City of Portland; purchased December 18, 1887, for delinquent assessment for the extension of Harrison street.

South $\frac{1}{2}$ block 314, City; purchased January, 1872, for the improvement of Washington street.

The undivided $\frac{1}{2}$ of the east $\frac{1}{2}$ of block 3, block C, Subdivision 25 of Carter's Addition; purchased February 5, 1885, for the improvement of Montgomery street.

Tracts between the north line of W street and the division line between the north $\frac{1}{2}$ and the south $\frac{1}{2}$ of Blackistone's donation land claim, and between the west line of North Twenty-first street, and a line 100 feet westerly therefrom; purchased April 2, 1885, for the extension of North Twenty-first street.

Lot 6, block 10, Blackistone's Addition; purchased April 2, 1885, for the extension of North Twenty-first street.

Lot 1, block 9, Blackistone's Addition; purchased April 2, 1885, for the extension of North Twenty-first street.

Lot 4, block 9, Blackistone's Addition; purchased for extension of North Twenty-first street.

Lot 5, block 9, Blackistone's Addition; purchased for extension of North Twenty-first street.

Lot 8, block 9, Blackistone's Addition; purchased for extension of North Twenty-first street.

Lot 3, block 10, Blackistone's Addition; purchased for the extension of North Twenty-first street.

Lot 2, block 10, Blackistone's Addition; purchased for the extension of North Twenty-first street.

Lot 7, block 10, Blackistone's Addition; purchased for the extension of North Twenty-first street.

Lots 5, 6, block 11, Tibbetts' Addition; purchased for taxes, 1880 (not on S. B.).

Lots 7, 8, block 50, Caruthers' Addition; purchased June 11, 1885, for improvement of Front and South Front streets.

Lot 7, block 113, Caruthers' Addition; purchased April 16, 1888, for the improvement of South First street.

FRANCHISE ACCOUNTS

Portland Railway Company—

Amount due under provisions of Ordinances Nos. 13177 and 13089 for 1908.....	\$	6,000.00
Amount paid to City Treasurer during 1908.....		6,000.00

Pacific States Telephone & Telegraph Company—

Amount due under provisions of Ordinance No. 12590 for 1908	\$	1,000.00
Amount paid to City Treasurer during 1908.....		1,000.00

People's Market Association—

Amount paid under provisions of Ordinance No. 13482 during the year 1908.....	\$	300.00
(In litigation.)		

City Messenger and Delivery Company—

Amount due under provisions of Ordinance No. 13897 for 1908	\$	100.00
Amount paid to City Treasurer during 1908.....		100.00

Willamette Valley Traction Company—

Amount due under provisions of Ordinance No. 15428 for 1907	\$	440.00
Amount due under provisions of Ordinance No. 15428 for 1908		440.00
	\$	880.00
Amount paid to City Treasurer during 1908.....	\$	440.00
Amount due on account of 1908.....	\$	440.00

United Railways Company—

Amount due under provisions of Ordinance No. 15427 for 1906	\$	200.00
Amount due under provisions of Ordinance No. 15427 for 1907		1,200.00
Amount due under provisions of Ordinance No. 15427 for 1908		1,200.00
Amount due under the provisions of Ordinance No. 14564 for 1907		500.00
Amount due under the provisions of Ordinance No. 17853 for 1908		500.00
	\$	3,600.00
Amount paid to City Treasurer during 1908.....	\$	1,400.00
Amount due on account of 1907 and 1908.....		2,200.00
	\$	3,600.00

Home Telephone & Telegraph Company—

Amount due under provisions of Ordinance No. 14699 for 1908	\$	1,000.00
No satisfactory report has been received from this company. The last report being filed is in the hands of the City Attorney.		

FRANCHISES

- Ordinance No. 107—former City of Albina—entitled: "An Ordinance authorizing the erecting, laying, stretching and maintaining of poles and wires for use in conducting electricity in the City of Albina by the Albina Light & Water Company and its assigns." Approved March 5, 1890. Expires, no time. Owned by Portland General Electric Company.
- Ordinance No. 183—former City of East Portland—entitled: "An Ordinance granting to the Oregon & California Railroad Company the right of way on First street." Passed June 17, 1876. Expires, no time. Owned by Oregon & California Railroad Company, leased by the Southern Pacific Railway.
- Ordinance No. 310—former City of East Portland—entitled: "An Ordinance authorizing the Oregon Railway & Navigation Company to lay a railroad track and run cars over the same within the City of East Portland." Passed September 13, 1881. Expires, no time. Owned by the Oregon Railroad & Navigation Company.
- Ordinance No. 595—former City of East Portland—entitled: "An Ordinance granting H. A. Hogue, C. P. Hogue and D. H. Jones, their successors and assigns, the right and privilege of erecting, constructing, maintaining and operating an electric light and power plant in the City of East Portland." Approved June 29, 1887. Expires, no time. Owned by Portland General Electric Company.
- Ordinance No. 599, entitled: "An Ordinance authorizing the Oregon Central Railroad Company, of Portland, to lay a railroad track and run cars over the same, within the City of Portland." Approved January 6, 1869. Owned by the Oregon & California Company, leased by Southern Pacific Company.
- Ordinance No. 631—former City of East Portland—entitled: "An Ordinance authorizing the Oregon Railway & Navigation Company to lay down railway tracks and run cars over the same, over, along and across certain streets in the City of East Portland, to connect with the bridge of the said company to be

constructed across the Willamette River between the Cities of East Portland and Portland." Approved December 5, 1887. Expires, no time. Owned by the Oregon Railroad & Navigation Company.

- Ordinance No. 681—former City of East Portland—entitled: "An Ordinance authorizing George W. Brown, his successors or assigns, to construct, maintain and operate street railways in the City of East Portland, County of Multnomah, State of Oregon." Approved November 22, 1888. Expires, fifty years. Owned by the Portland Railway, Light & Power Company.
- Ordinance No. 888—former City of East Portland—entitled: "An Ordinance authorizing George W. Brown, his successors and assigns, to construct and maintain and operate a street railway on certain streets in the City of East Portland." Owned by the Portland Railway, Light & Power Company. Approved October 22, 1890. Expires, 50 years.
- Ordinance No. 967—former City of East Portland—entitled: "An Ordinance confirming to the East Side Railway Company all the rights, privileges and franchises granted by Ordinance No. 888, entitled: 'An Ordinance authorizing George W. Brown, his successors or assigns, to construct, maintain and operate a street railway on certain streets in the City of East Portland, Oregon.'" Approved May 22, 1891. Owned by the Portland Railway, Light & Power Company.
- Ordinance No. 984—former City of East Portland—entitled: "An Ordinance authorizing George W. Brown, his successors or assigns, to construct, maintain and operate an electric light and power plant in the City of East Portland, Multnomah County, Oregon." Approved June 25, 1891. Expires, no time. Owned by Portland General Electric Company.
- Ordinance No. 2969, entitled: "An Ordinance authorizing the Oregonian Railway Company (limited) to lay a railway track and run cars over the same within the City of Portland." Approved January 7, 1881. Expires, no time. Owned by the Oregon & California Railway Company, and leased by the Southern Pacific Company.
- Ordinance No. 3513, entitled: "An Ordinance granting the right of way through the streets of the City of Portland for laying pipes for the purpose of conveying water through and throughout the City." Approved July 21, 1882. Owned by Portland Hydraulic Elevator Company.

Ordinance No. 3538, entitled: "An Ordinance authorizing the erection and maintaining of electric light wires and the necessary supports therefor on and over the streets of the City of Portland." Approved September 8, 1882. Expires, no time. Owned by Portland General Electric Company.

Ordinance No. 3656, entitled: "An Ordinance authorizing the Northern Pacific Terminal Company of Oregon, its successors and assigns, to construct and maintain a double railway track on North Front street, in the City of Portland, from the northern limits of said city to the south line of 'P' street, and a single track from thence to a point opposite the southwest corner of block G and eighty feet distant therefrom with a side track from a point opposite block 220 to block H, both in Couch's Addition to said City of Portland; also sufficient and suitable side tracks from, at or near the foot of 'P' street, curving across and along East and West Park streets and M, N, O and P streets, and to confirm to the Oregon & California Railway Company the right to maintain and operate its main and side tracks in North Front street, in said City." Approved December 8, 1882. Expires, no time. Owned by the Northern Pacific Terminal Company of Oregon.

Ordinance No. 4932, entitled: "An Ordinance authorizing and directing a contract with P. F. Morey and his assigns, and authorizing and allowing the erection and maintaining of poles and wires used in connection with or as a part of electric light works, in, upon and over the streets, alleys and public parks and public grounds of the City of Portland." Approved October 7, 1886. Expires, no time. Owned by Portland General Electric Company.

Ordinance No. 4942, entitled: "An Ordinance granting to the Northwestern American District Telegraph Company, of Oregon, the right and privilege of erecting, constructing, maintaining and operating its telegraph system in the City of Portland." Approved October 21, 1886. Expires, no time. Owned by American District Telegraph Company.

Ordinance No. 4995, entitled: "An Ordinance granting to the Pacific Postal Telegraph Cable Company the right and privilege of erecting, constructing, laying, maintaining and operating its telegraph lines in the City of Portland." Approved January 6, 1887. Expires, no time. Owned by Postal Telegraph Cable Company.

Ordinance No. 5100, entitled: "An Ordinance granting to the Portland & Willamette Valley Railway Company, its successors and

assigns, a right of way over certain lands belonging to the City of Portland." Approved June 17, 1887. Expires, no time. Owned by Oregon & California Railroad Company, leased by Southern Pacific Company.

Ordinance No. 5163, entitled: "An Ordinance authorizing the Oregon Railway & Navigation Company, its successors and assigns, to cross with bridge approach and tracks North Front street and North Third street, and to occupy portions of said streets." Approved August 19, 1887. Expires, no time. Owned by the Oregon Railroad & Navigation Company.

Ordinance No. 5568, entitled: "An Ordinance authorizing the Northern Pacific Terminal Company of Oregon to construct and maintain certain railroad tracks in and across certain streets in the City of Portland." Approved September 11, 1888. Expires, no time. Owned by the Northern Pacific Terminal Company.

Ordinance No. 7134, entitled: "An Ordinance to authorize and empower the Committee on Free Bridges to enter into a contract with the Columbia Street Bridge Company to purchase the bridge commonly known as the 'Madison Street Bridge,' and to grant to the Mount Tabor Street Railroad Company, and its assigns, the right of way across the same." Approved November 11, 1891. Expires, 30 years. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 7443, entitled: "An Ordinance granting to the Highland Park Water Company the right of way through and across certain streets and avenues of that portion of the City of Portland known as Highland Park, Irvington Park, Woodlawn Heights, Cloverdale, Cloverdale Extension No. 1, Cloverdale Extension No. 2, and Columbia Heights, for laying pipes for the purpose of conveying water through and throughout said portion of said City." Approved March 3, 1892. Expires, 20 years. Owner unknown.

Ordinance No. 7578, entitled: "An Ordinance granting to the Investment Company the right of way through and across certain streets in the City of Portland, Oregon, for the purpose of laying pipes for conveying water." Approved April 25, 1892. Expires, 20 years. Owned by Investment Company.

Ordinance No. 8101, entitled: "An Ordinance granting to the East Portland Gas Light Company the right to lay pipes and mains underground through the streets and alleys of that portion of the City of Portland lying on the east bank of the Willamette River,

Ordinance No. 3538, entitled: "An Ordinance authorizing the erection and maintaining of electric light wires and the necessary supports therefor on and over the streets of the City of Portland." Approved September 8, 1882. Expires, no time. Owned by Portland General Electric Company.

Ordinance No. 3656, entitled: "An Ordinance authorizing the Northern Pacific Terminal Company of Oregon, its successors and assigns, to construct and maintain a double railway track on North Front street, in the City of Portland, from the northern limits of said city to the south line of 'P' street, and a single track from thence to a point opposite the southwest corner of block G and eighty feet distant therefrom with a side track from a point opposite block 220 to block H, both in Couch's Addition to said City of Portland; also sufficient and suitable side tracks from, at or near the foot of 'P' street, curving across and along East and West Park streets and M, N, O and P streets, and to confirm to the Oregon & California Railway Company the right to maintain and operate its main and side tracks in North Front street, in said City." Approved December 8, 1882. Expires, no time. Owned by the Northern Pacific Terminal Company of Oregon.

Ordinance No. 4932, entitled: "An Ordinance authorizing and directing a contract with P. F. Morey and his assigns, and authorizing and allowing the erection and maintaining of poles and wires used in connection with or as a part of electric light works, in, upon and over the streets, alleys and public parks and public grounds of the City of Portland." Approved October 7, 1886. Expires, no time. Owned by Portland General Electric Company.

Ordinance No. 4942, entitled: "An Ordinance granting to the Northwestern American District Telegraph Company, of Oregon, the right and privilege of erecting, constructing, maintaining and operating its telegraph system in the City of Portland." Approved October 21, 1886. Expires, no time. Owned by American District Telegraph Company.

Ordinance No. 4995, entitled: "An Ordinance granting to the Pacific Postal Telegraph Cable Company the right and privilege of erecting, constructing, laying, maintaining and operating its telegraph lines in the City of Portland." Approved January 6, 1887. Expires, no time. Owned by Postal Telegraph Cable Company.

Ordinance No. 5100, entitled: "An Ordinance granting to the Portland & Willamette Valley Railway Company, its successors and

assigns, a right of way over certain lands belonging to the City of Portland." Approved June 17, 1887. Expires, no time. Owned by Oregon & California Railroad Company, leased by Southern Pacific Company.

Ordinance No. 5163, entitled: "An Ordinance authorizing the Oregon Railway & Navigation Company, its successors and assigns, to cross with bridge approach and tracks North Front street and North Third street, and to occupy portions of said streets." Approved August 19, 1887. Expires, no time. Owned by the Oregon Railroad & Navigation Company.

Ordinance No. 5568, entitled: "An Ordinance authorizing the Northern Pacific Terminal Company of Oregon to construct and maintain certain railroad tracks in and across certain streets in the City of Portland." Approved September 11, 1888. Expires, no time. Owned by the Northern Pacific Terminal Company.

Ordinance No. 7134, entitled: "An Ordinance to authorize and empower the Committee on Free Bridges to enter into a contract with the Columbia Street Bridge Company to purchase the bridge commonly known as the 'Madison Street Bridge,' and to grant to the Mount Tabor Street Railroad Company, and its assigns, the right of way across the same." Approved November 11, 1891. Expires, 30 years. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 7443, entitled: "An Ordinance granting to the Highland Park Water Company the right of way through and across certain streets and avenues of that portion of the City of Portland known as Highland Park, Irvington Park, Woodlawn Heights, Cloverdale, Cloverdale Extension No. 1, Cloverdale Extension No. 2, and Columbia Heights, for laying pipes for the purpose of conveying water through and throughout said portion of said City." Approved March 3, 1892. Expires, 20 years. Owner unknown.

Ordinance No. 7578, entitled: "An Ordinance granting to the Investment Company the right of way through and across certain streets in the City of Portland, Oregon, for the purpose of laying pipes for conveying water." Approved April 25, 1892. Expires, 20 years. Owned by Investment Company.

Ordinance No. 8101, entitled: "An Ordinance granting to the East Portland Gas Light Company the right to lay pipes and mains underground through the streets and alleys of that portion of the City of Portland lying on the east bank of the Willamette River,

for the purpose of carrying gas into, through and throughout said portion of the City of Portland, and to supply the inhabitants thereof with gas." Approved January 5, 1893. Expires, no time. Owned by the Portland Gas Company.

Ordinance No. 8208, entitled: "An Ordinance granting to the Investment Company the right of way through and across certain streets in the City of Portland, Oregon, for the purpose of laying pipe for carrying water." Approved March 16, 1893. Expires, 20 years. Owned by Investment Company.

Ordinance No. 8275, entitled: "An Ordinance authorizing the East Side Railway Company, its successors or assigns, to construct, maintain and operate a street railway on East Eleventh street, in the City of Portland, Oregon." Approved May 4, 1893. Expires, 30 years. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 8419, entitled: "An Ordinance granting to the Western Union Telegraph Company the right to place and maintain its poles and lines in the streets, alleys and public ways of the City of Portland, State of Oregon, on the terms and conditions herein stated." Approved July 21, 1893. Expires, no time. Owned by Western Union Telegraph Company.

Ordinance No. 8445, entitled: "An Ordinance authorizing the East Side Railway Company, its successors or assigns, to construct, maintain and operate a street railway on Madison street, in the City of Portland, County of Multnomah, State of Oregon." Approved August 4, 1893. Expires, 30 years. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 9190, entitled: "An Ordinance granting to the East Side Railway Company, its successors and assigns, certain rights on East Water street, etc." Approved March 22, 1895. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 9291, entitled: "An Ordinance to vacate a portion of Third street between the north line of Glisan street and the north line of Hoyt street, and to authorize the Oregon Railway & Navigation Company, its successors and assigns, to construct upon the part of said Third street so vacated an elevated roadway from Third street, connecting with the upper deck of the steel bridge of said railway crossing the Willamette River." Approved June 6, 1895. Expires, no time. Franchise granted by Section 2. Owned by the Oregon Railway & Navigation Company.

Ordinance No. 9363, entitled: "An Ordinance authorizing Charles E. Smith, G. Glass and Adolph A. Dekum, or assigns, to construct, maintain and operate a system of street railways in the City of Portland." Approved July 18, 1895. Expires, 30 years. Owner, unknown.

Ordinance No. 9641, entitled: "An Ordinance granting to L. Zimmerman the right to construct, establish and carry on or operate upon his property in the City of Portland, a packing and meat business." Approved February 12, 1896. (Repealed by Ordinance No. 10560.) Approved December 2, 1897. Owned by L. Zimmerman.

Ordinance No. 11086, entitled: "An Ordinance authorizing the placing of a permanent railway track in Upshur street between the westerly line of Fifteenth street to a point 100 feet westerly from the west line of Eighteenth street, in Watson's Addition to the City of Portland, Multnomah County, Oregon." Approved January 9, 1899. Expires, 33 years. Owned by the Northern Pacific Terminal Company.

Ordinance No. 11111, entitled: "An Ordinance authorizing the Oregon Railroad & Navigation Company, its successors and assigns, to lay a railroad track upon certain streets in the City of Portland, and to run cars and locomotives over the same." Approved January 21, 1899. Expires, no time. Owned by the Oregon Railroad & Navigation Company.

Ordinance No. 11270, entitled: "An Ordinance authorizing the Eastern Lumber Company to construct and maintain a side track of standard gauge across Front street and to connect with the track of the Northern Pacific Railroad Company on Sherlock avenue, between Colton and Hull streets." Approved June 28, 1899. Expires, 30 years. Owned by the Northern Pacific Terminal Company.

Ordinance No. 11279, entitled: "An Ordinance to authorize the Oregon & California Railroad Company to construct an embankment in lieu of the existing trestle on East Stark street, East Portland, now City of Portland, and to construct thereunder a tubular culvert for drainage purposes." Approved June 6, 1899. Expires, no time. Owned by Oregon & California Railroad Company. Leased by the Southern Pacific Company.

Ordinance No. 12590, entitled: "An Ordinance granting to the Pacific States Telephone & Telephone Company, its successors and assigns, the right and privilege to continue to maintain and op-

erate its present telephone and telegraph system, to erect and maintain such additional poles and wires as may be necessary for its telephone and telegraph business and to maintain and operate an underground telephone and telegraph system, for the period of twenty-five years, in, under and upon the streets, alleys, and public highways of the City of Portland, and to repeal all existing franchises and ordinances under which the said Pacific States Telephone & Telegraph Company is now operating or could operate in any part of the City of Portland." Approved February 21, 1902. Expires, 25 years. Owned by Pacific States Telephone & Telegraph Company.

Ordinance No. 13054, entitled: "An Ordinance authorizing the Northern Pacific Terminal Company of Oregon to place a side track on Front street." Approved November 11, 1902. Expires, no time. Owned by the Northern Pacific Terminal Company.

Ordinance No. 13053, entitled: "An Ordinance granting to the Oregon Water Power & Railway Company, its successors and assigns, the right and privilege to construct and to maintain and operate railways in the City of Portland." Approved November 10, 1902. Expires, 25 years. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 13089, entitled: "An Ordinance granting to Portland Railway Company, its successors and assigns, the right to construct, acquire and own and to maintain, operate and use railways and poles and wires and underground conduits, cables and conductors in the City of Portland, Oregon." Approved November 25, 1902. Expires 31st day of December, 1927. Owned by Portland Railway Company.

Ordinance No. 13113, entitled: "An Ordinance granting to the Oregon Water Power & Railway Company, and its successors and assigns, the right and privilege to construct and to maintain and operate railways in the City of Portland." Approved December 18, 1902. Expires, 25 years. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 13177, entitled: "An Ordinance granting to the City & Suburban Railway Company, its successors and assigns, the right to construct, acquire and own and to maintain and use railways and poles, and wires and underground conduits, cables and conductors in the City of Portland, Oregon." Approved January 13, 1903. Expires 31st day of December, 1932. Owned by the Portland Railway Company.

Ordinance No. 13482, entitled: "An Ordinance granting to Union Market Company, its successors and assigns, the right and privilege to have the use of block 132, in the City of Portland, for a period of 25 years, on which to erect buildings, and to be used exclusively as a market place." Approved August 7, 1903. Expires 25 years. Owned by People's Market Association.

Ordinance No. 13791, entitled: "An Ordinance granting to the Oregon Water Power & Railway Company, a corporation, its successors and assigns, the right to substitute for the street car fenders described in the act of the Legislative Assembly of the State of Oregon, entitled 'An Act to require all individuals, firms, associations, companies and corporations, owning, managing or operating any street railway, to provide suitable aprons, fenders or guards on street cars, and providing a penalty for violation thereof.' Approved February 17, 1903, the street car fender hereinafter referred to, and granting said corporation the right to use said substituted street car fender on all cars operated by it in the City of Portland." Approved February 6, 1904.

Ordinance No. 13897, entitled: "An Ordinance granting to the City Messenger & Delivery Company, a corporation, its successors and assigns, the right, franchise and privilege to erect poles and string wires thereon; to construct underground conduits and to lay wires in underground conduits, and to stretch wires along, over, upon and across the streets, avenues and public places of the City of Portland, Oregon, for the transmission of electric current to be used solely and exclusively in connection with a messenger system and service and a call-box system; and to establish, maintain and operate a messenger system and service and a system of call-boxes and fixing the compensation to be paid therefor." Approved April 8, 1904. Owned by City Messenger & Delivery Company.

Ordinance No. 14083, entitled: "An Ordinance authorizing the Oregon Water Power & Railway Company, a corporation, to construct and maintain a sentry box at the intersection of Hawthorne avenue and East First street, City of Portland, Multnomah County, Oregon, and to authorize and require the removal of the sentry box from the place where the same is now located at the intersection of Hawthorne avenue and East First street." Approved July 8, 1904. Owned by the Portland Railway, Light & Power Company.

Ordinance No. 14699, entitled: "An Ordinance granting to Chas. E. Summer, his successors and assigns, the right, privilege and fran-

chise to erect poles and string wires and cables thereon; to construct underground conduits and manholes and to lay wires and cables in underground conduits and through manholes, and to stretch wires and cables along, over, upon and across streets, alleys and avenues and public places of the City of Portland, for the transmission of sounds, signals, conversation and intelligence through and over said wires and cables by means of electricity, and to construct, establish, equip and install a telephone and telegraph system and to conduct a general telephone and telegraph business within the City of Portland, and fixing the compensation to be paid therefor." Owned by the Home Telephone and Telegraph Company.

Ordinance No. 15364, entitled: "An Ordinance granting to the Mount Hood Electric Company, its successors and assigns, for a period of twenty-five years, the right and privilege to erect, construct, maintain and operate an electric light, heat and power system in the City of Portland, and the right and privilege to erect poles, and stretch wires thereon, and thereover, through, over and upon the streets, alleys and public highways, and to construct underground conduits or pipes with all necessary manholes and other appliances in and under the said streets, alleys and public highways in the City of Portland, for conducting and conveying electricity for light, heat and power, to charge rents and tolls therefor, and to collect the same, and authorizing the said Mount Hood Electric Company to trim shade and ornamental trees in the said streets, alleys and public highways, and granting right of way for conduit, canal or flume over and across the northwest quarter of the southwest quarter of section 5, township 2 south, range 5, east of W. M., and to provide for the punishment of those injuring or interfering with its property." Owned by the Mount Hood Electric Company.

Ordinance No. 15427, entitled: "An Ordinance granting to the United Railways Company, its successors and assigns, the right to construct, lay down, maintain and operate railways, poles and wires and underground conduits in the City of Portland, Oregon." Owned by the United Railways Company.

Ordinance No. 15428, entitled: "An Ordinance granting to the Willamette Valley Traction Company, its successors and assigns, the right to construct, lay down, maintain and operate railways, poles and wires and underground conduits in the City of Portland, and to operate cars over certain streets in said City of Portland, in accordance with the provisions of an ordinance entitled, 'An Ordinance granting to the United Railways Company, its suc-

cessors and assigns, the right to construct, lay down, maintain and operate railways, poles and wires and underground conduits in the City of Portland, Oregon.'" Owned by the Willamette Valley Traction Company.

Ordinance No. 16730, entitled: "An Ordinance granting to the Economy Gas Company, its successors and assigns, the right to construct, acquire, own, maintain, conduct and operate a plant or plants for the manufacture and distribution of gas in the City of Portland, Oregon, to sell gas for domestic and other purposes, and to lay pipes and mains for the purpose of conducting and distributing said gas through, in and over said city." Owned by the Economy Gas Company.

Ordinance No. 17853, entitled: "An Ordinance granting to the United Railways Company, its successors and assigns, the right to construct, lay down, maintain and operate railways and poles and wires and underground conduits in the City of Portland, Oregon, and repealing Ordinance No. 14564." Owned by the United Railways Company.

Respectfully submitted,

A. L. BARBUR,
Auditor of the City of Portland.

REPORT OF

J. E. Werlein, City Treasurer

For the Year Ending December
31, 1908.

Balance in treasury December 31, 1907.....	\$ 554,569.55	
Balance in New York.....	17,310.00	
Balance in Ladd & Tilton imp. fund.....	128,161.34	
Received from all sources.....	4,608,932.87	
Disbursed		\$3,919,652.51
Balance in treasury.....		1,276,266.20
Balance in New York.....		14,350.00
Balance in Ladd & Tilton imp. fund.....		98,705.05
	\$5,308,973.76	\$5,308,973.76

GENERAL FUND

Balance as per report December 31, 1907..	\$ 167,312.61
Received general licenses	409,710.01
Received dog licenses	5,774.00
Received G. J. Cameron, Municipal Judge..	12,390.50
Received J. Van Zante, Municipal Judge..	13,949.50
Received F. W. Reed, pound fees.....	1,458.15
Received building permits	6,995.00
Received Chapter III Ordinance	17.00
Received full code	15.00
Received death certificates and anti-toxin, Dr. Pohl	56.00
Received interest on daily balances.....	14,674.29
Received premium on bonds	16,663.09
Received transfer liquor licenses	3,060.00
Received miscellaneous costs	723.20
Received plumber examinations, W. Hey..	330.00
Received cost engineering, A. L. Barbur, Auditor	76,736.37
Received rent, Multnomah County	612.00
Received rent, H. S. Allen, School District No. 1	480.00

Received rent, National Ass'n Engineers...	130.00
Received delinquent taxes sundry years....	343.41
Received certified copies	94.75
Received signs	15.00
Received franchise, Willamette Valley Trac- tion Co.	440.00
Received franchise, People's Market Ass'n.	300.00
Received franchise, United Railway Co.....	1,400.00
Received franchise, Pacific States Tele- phone Co.	1,000.00
Received franchise, City Messenger Co.....	100.00
Received franchise, Portland Railway, Light & Power Co.	6,000.00
Received refund, City Attorney, Donovan vs. City	5.00
Received refund, City Attorney, McKinnon vs. City	97.00
Received City Engineer, inspection pave- ment	75.00
Received removing dead animals.....	561.00
Received City Engineer, use of road roller.	2.25
Received Portland & Seattle Railway Co., repair Tanner creek sewer.....	370.00
Received Portland & Seattle Railway Co. refund	1,269.00
Received witness fees, Wm. Hey.....	1.65
Received F. S. Fields, County Clerk fees returned	110.00
Received refund smallpox patient, Oregon City	230.00
Received automobile owners	555.00
Received automobile chauffeurs	732.00
Received Country Club	1.00
Received license tags	.75
Received sacks sold, A. Donaldson.....	50.00
Received sale old junk, A. L. Barbur, Aud.	117.00
Received key returned safety deposit vault.	1.00
Received property redeemed	10.90
Transferred from Special Bridge fund.....	3,900.00
Transferred to Fire Department fund.....	\$ 11,511.15
Transferred to Police Department fund....	27,525.00
Transferred to Street Repair fund.....	14,300.00
Transferred to Lighting fund	5,800.00

Transferred to Imp. Bond Interest fund..	19,000.00	
Transferred to Street Improvement fund..	528.40	
Transferred to Street Extension fund.....	285.55	
Transferred to Street and Sewer Int. fund.	5,000.00	
Transferred to Bonded Ind. Int. fund.....	14,100.00	
Transferred to Park fund	8,558.00	
Transferred to Sewer fund	300.90	
Warrants paid and returned.....	433,100.63	
Balance	208,858.80	
	<u>\$ 748,868.43</u>	<u>\$ 748,868.43</u>

FIRE DEPARTMENT FUND

Balance as per report December 31, 1907...	\$ 84,140.96	
Transferred from General fund.....	11,511.15	
Transferred from Fire Boat fund.....	2.64	
Received taxes, J. M. Lewis, Co. Treasurer.	336,564.25	
Warrants paid and returned.....	\$ 375,567.82	
Balance	56,651.18	
	<u>\$ 432,219.00</u>	<u>\$ 432,219.00</u>

POLICE DEPARTMENT FUND

Balance as per report December 31, 1907...	\$ 48,170.13	
Transferred from General fund.....	27,525.00	
Received taxes, J. M. Lewis, Co. Treasurer.	134,759.49	
Received refund on warrant.....	.20	
Warrants paid and returned.....	\$ 192,371.67	
Balance	18,083.15	
	<u>\$ 210,454.82</u>	<u>\$ 210,454.82</u>

STREET REPAIR FUND

Balance as per report December 31, 1907...	\$ 10,175.93	
Received taxes, J. M. Lewis, Co. Treasurer.	48,072.08	
Received vehicle	31,250.95	
Received repair sidewalks	5,009.47	
Received sale of bonds.....	1,117.01	
Transferred from General fund.....	14,300.00	
Warrants paid and returned.....	\$ 95,504.36	
Balance	14,421.08	
	<u>\$ 109,925.44</u>	<u>\$ 109,925.44</u>

BONDED INDEBTEDNESS INTEREST FUND

Balance as per report December 31, 1907...	\$ 26,552.04	
Received taxes, J. M. Lewis, Co. Treasurer.	96,208.47	
Received rent, Morrison street bridge.....	13,863.57	
Transferred from Morrison St. Bridge fund	1,056.24	
Transferred from Water fund.....	15,000.00	
Received interest on Park & Boulevard bonds	1,666.66	
Transferred from General fund.....	14,100.00	
Transferred to N. Y. Blair & Co.....	\$ 600.00	
Transferred to N. W. Harris & Co.....	15,000.00	
Transferred to Chase National Bank.....	3,000.00	
Transferred to Chemical National Bank...	33,400.00	
Warrants paid and returned.....	145.00	
Coupons paid and returned.....	86,485.00	
Balance	29,816.98	
	<u>\$ 168,446.98</u>	<u>\$ 168,446.98</u>

BONDED INDEBTEDNESS INTEREST FUND

(New York Account)

Balance Chase National Bank, N. Y., Dec. 31, 1907	\$ 120.00	
Balance Chemical National Bank, N. Y., Dec. 31, 1907	16,800.00	
Balance N. W. Harris & Co., N. Y., Dec. 31, 1907	390.00	
Transferred to Chase National Bank.....	3,000.00	
Transferred to Chemical National Bank....	33,400.00	
Transferred to Blair & Co.	600.00	
Transferred to N. W. Harris & Co.....	15,000.00	
Coupons paid and returned, Chase National Bank, N. Y.	\$ 1,620.00	
Coupons paid and returned, Chemical National Bank, N. Y.....	37,650.00	
Coupons paid and returned, Blair & Co., N. Y.	600.00	
Coupons paid and returned, N. W. Harris & Co.	15,090.00	
Balance Chase National Bank.....	1,500.00	
Balance Chemical National Bank.....	12,550.00	
Balance N. W. Harris & Co.....	300.00	
	<u>\$ 69,310.00</u>	<u>\$ 69,310.00</u>

LIGHTING FUND

Balance as per report December 31, 1907...	\$	8,980.05
Transferred from General fund.....		5,800.00
Received taxes, J. M. Lewis, Co. Treasurer.		94,179.34
Warrants paid and returned	\$	56,558.76
Balance		52,400.63
	\$	108,959.39
	\$	108,959.39

WATER BOND INTEREST FUND

Balance as per report December 31, 1907...	\$	72,825.00
Transferred from Water fund.....		145,000.00
Coupons paid and returned.....	\$	145,200.00
Balance		72,625.00
	\$	217,825.00
	\$	217,825.00

STREET IMPROVEMENT FUND

Balance as per report December 31, 1907...	\$	35,192.13
Transferred from General fund.....		528.40
Received from assessments.....		1,557,121.97
Warrants paid and returned.....	\$	1,517,573.05
Balance		75,269.45
	\$	1,592,842.50
	\$	1,592,842.50

SEWER FUND

Balance as per report December 31, 1907...	\$	1,960.14
Received from assessments.....		106,745.79
Transferred from General fund.....		300.90
Warrants paid and returned.....	\$	107,938.10
Balance		1,068.73
	\$	109,006.83
	\$	109,006.83

STREET EXTENSION FUND

Balance as per report December 31, 1907...	\$	4,056.92
Transferred from General fund.....		285.55
Received from assessments.....		24,961.30
Warrants paid and returned	\$	13,499.97
Balance		15,803.80
	\$	29,303.77
	\$	29,303.77

STREET AND SEWER INTEREST FUND

Balance as per report December 31, 1907...	\$	2,040.13
Transferred from General fund.....		5,000.00
Received from collections.....		5,854.32
Warrants paid	\$	54.23
Interest paid on warrants.....		11,484.46
Balance		1,355.76
	\$	12,894.45
	\$	12,894.45

IMPROVEMENT FUND

Balance as per report December 31, 1907...	\$	1,619.89
Received from collections.....		9,912.30
Transferred from Ladd & Tilton, Improvement fund account		29,456.29
Bonds redeemed and returned.....	\$	38,833.11
Warrants paid and returned		21.54
Balance		2,133.83
	\$	40,988.48
	\$	40,988.48

LADD & TILTON IMPROVEMENT FUND ACCOUNT

Balance as per report December 31, 1907...	\$	128,161.34
Transferred to Improvement fund account.	\$	29,456.29
Balance		98,705.05
	\$	128,161.34
	\$	128,161.34

IMPROVEMENT BOND INTEREST FUND

Balance as per report December 31, 1907...	\$	5,832.01
Received sundry collections bonded assessments		35,733.97
Received interest on certificate of deposit, Ladd & Tilton		5,735.16
Transferred from General fund.....		19,000.00
Warrants paid and returned.....	\$	236.24
Coupons redeemed and returned.....		59,283.53
Balance		6,781.37
	\$	66,301.14
	\$	66,301.14

IMPROVEMENT BOND SINKING FUND

Balance as per report December 31, 1907...	\$	24,188.84
Received bonded assessments.....		172,104.18

Bonds redeemed and returned.....	\$ 136,465.11	
Warrants paid and returned.....	51,388.46	
Balance	8,439.45	
	<u>\$ 196,293.02</u>	<u>\$ 196,293.02</u>

WATER FUND

Balance as per report December 31, 1907...	\$ 40,944.18	
Received collections, F. T. Dodge, Supt...	543,262.00	
Received sale of old buildings.....	6.00	
Transferred to Water Bond Interest fund...	\$ 145,000.00	
Transferred to Bonded Indebt. Int. fund...	15,000.00	
Warrants paid and returned.....	286,116.87	
Balance	138,095.31	
	<u>\$ 584,212.18</u>	<u>\$ 584,212.18</u>

WATER BOND SINKING FUND

Balance as per report December 31, 1907...	\$ 11.04	
Received collections, F. T. Dodge, Supt...	63,000.00	
Received bonds	19,411.19	
Received interest on bonds.....	5,163.41	
Warrants paid and returned.....	\$ 87,460.74	
Balance	124.90	
	<u>\$ 87,585.64</u>	<u>\$ 87,585.64</u>

SPECIAL BRIDGE FUND

Balance as per report December 31, 1907...	\$ 472.51	
Received taxes, J. M. Lewis, Co. Treasurer.	96,066.05	
Received sale of bonds.....	21,749.28	
Transferred to General fund.....	\$ 3,900.00	
Warrants paid and returned.....	80,898.75	
Interest paid	446.66	
Balance	33,042.43	
	<u>\$ 118,287.84</u>	<u>\$ 118,287.84</u>

POLICE AND FIRE RELIEF FUND

Balance as per report December 31, 1907...	\$ 5,132.39	
Received sundry collections	3,099.65	
Received C. Gritzmacher, Chief of Police..	402.05	
Received donations, D. Campbell.....	305.90	
Received junk sold	93.80	

Warrants paid and returned.....	\$ 6,789.19	
Balance	2,244.60	
	<u>\$ 9,033.79</u>	<u>\$ 9,033.79</u>

PARK FUND

Balance as per report December 31, 1907...	\$ 10,880.92	
Received taxes, J. M. Lewis, Co. Treasurer.	57,633.32	
Transferred from General fund.....	8,558.00	
Received sale guinea pigs.....	73.80	
Received public baths	121.00	
Received S. H. Burnett, park privilege....	350.00	
Received donation, Portland Railway, Light & Power Co.	1,000.00	
Warrants paid and returned.....	\$ 54,702.18	
Balance	23,914.86	
	<u>\$ 78,617.04</u>	<u>\$ 78,617.04</u>

BILL POSTING BADGE FUND

Balance as per report December 31, 1907...	\$ 85.00	
Received for badges	41.00	
Badges redeemed and returned.....	\$ 32.00	
Balance	94.00	
	<u>\$ 126.00</u>	<u>\$ 126.00</u>

LIBRARY FUND

Received taxes, J. M. Lewis, Co. Treasurer.	\$ 21,144.90	
Warrants paid and returned.....	21,144.90	
	<u>\$ 21,144.90</u>	<u>\$ 21,144.90</u>

REDEMPTION FUND

Balance as per report December 31, 1907...	\$ 75.22	
Received collections, A. L. Barbur, Auditor.	4,489.34	
Warrants paid and returned.....	\$ 4,390.18	
Balance	174.38	
	<u>\$ 4,564.56</u>	<u>\$ 4,564.56</u>

CASCADE POWER COMPANY DEPOSIT FUND

Balance as per report December 31, 1907...	\$ 1,000.00	
Warrants paid and returned.....	\$ 1,000.00	
	<u>\$ 1,000.00</u>	<u>\$ 1,000.00</u>

GENERAL FUND REDEMPTION OF WARRANTS

Balance same as last report, Dec. 31, 1907.. \$ 2,889.53

FUND FOR REPAIRS OF STREETS AND BRIDGES

Balance same as report December 31, 1907. \$ 31.98

MT. HOOD ELECTRIC COMPANY

Improvement bonds Nos. 2288-3286 of the
denomination of \$500.00 each deposited
as indemnity under Section 5, Ordinance No. 15364 \$ 1,000.00

IMPROVEMENT BOND SINKING FUND

(Bond Account)

Bonds purchased \$ 51,388.46

PARK AND BOULEVARD FUND

Received sale of bonds..... \$ 500,000.00
Received premium on bonds 10,945.00
Balance \$ 510,945.00
\$ 510,945.00 \$ 510,945.00

PORTLAND RAILWAY, LIGHT & POWER COMPANY

(Deposit Account)

Deposit Section 5, Ordinance No. 16062... \$ 1,000.00
Balance. \$ 1,000.00
\$ 1,000.00 \$ 1,000.00

POLICE AND FIRE DEPARTMENT RELIEF FUND

(Bond Account)

Bonds purchased \$ 4,000.00
Balance \$ 4,000.00
\$ 4,000.00 \$ 4,000.00

SUMMARY

Balance in treasury	\$1,276,266.20
Balance Ladd & Tilton Improvement fund.	98,705.05
Balance in New York.....	14,350.00
Credited as follows:	
General fund	\$ 208,858.80
Fire Department fund.....	56,651.18
Police Department fund	18,083.15
Street Repair fund	14,421.08
Bonded Indebtedness Interest fund.....	29,816.98
Bonded Indebtedness Interest fund, Chase National Bank	1,500.00
Bonded Indebtedness Interest fund, Chem- ical National Bank	12,550.00
Bonded Indebtedness Interest fund, N. W. Harris & Co.	300.00
Lighting fund	52,400.63
Water Bond Interest fund.....	72,625.00
Street Improvement fund	75,269.45
Sewer fund	1,068.73
Street Extension fund	15,803.80
Street and Sewer Interest fund.....	1,355.76
Improvement fund	2,133.83
Ladd & Tilton Improvement fund.....	98,705.05
Improvement Bond Interest fund.....	6,781.37
Improvement Bond Sinking fund.....	8,439.45
Water fund	138,095.31
Water Bond Sinking fund.....	124.90
Special Bridge fund	33,042.43
Police and Fire Relief fund.....	2,244.60
Park fund	23,914.86
Bill Posting Badge fund	94.00
Public Library fund	
Redemption fund	174.38
General fund, redemption warrants.....	2,889.53
Fund Repair Streets and Bridges.....	31.98
Park and Boulevard fund.....	510,945.00
Portland Railway, Light & Power Co., de- posit fund	1,000.00
	<u>\$1,389,321.25</u> <u>\$1,389,321.25</u>

STREETS

Balance as stated.....	\$	75,269.45
Credited as follows:		
M st., 4th to 12th.....	\$	43.16
Clinton st., 12th to 21st.....		62.73
Chapman st., Jefferson to Taylor.....		35.05
Front st., Gaines to 1st ave.		18.55
Hood st., Sheridan to Curry.....		6.05
Taylor st., 10th to 14th.....		1.41
2nd st., Sheridan to Gibbs.....		63.15
22nd N., J to P.....		22.66
Multnomah st., Grover to Curry.....		9.10
E. 24th st., formerly "A" st.		29.96
E. 8th st., Ainsworth to Dekum.....		15.25
Tacoma ave.		50.00
Umatilla ave.	471.23	
Morrison st., Front to Chapman.....		6.57
Cable st., Mill to Terrace road.....	171.75	
Grand ave., E. Clay to E. Stark.....		2.36
Clinton st., E. 21st to E. 36th.....		21.92
Belmont st., E. Water to E. 34th.....		12.00
Going st., Union ave. to Highland.....		57.25
4th st., Burnside to Glisan.....		23.60
Grand ave., E. Clay to E. Grant.....		1.47
Columbia st., 3rd to Water.....		2.26
Goldsmith st., 329 ft. to 802 ft. s. of Page..		.50
Grand ave., E. Grant to E. Caruthers		8.63
Elm st., 16th to Chapman		7.00
1st st., 100 ft. n. to 100 ft. s. of Grover.....		2.75
Front st., Woods to Grover.....		2.75
Corbett st., 100 ft. n. to 30 ft. s. of Pennoyer		2.75
Jefferson st., 16th to Park.....		6.15
Front st., Madison to Burnside.....		5.94
Corbett st., Hood to Bancroft.....	259.14	
Davis st., 12th to 14th.....		2.90
Union ave., 12 ft. to 121 ft. n. of Broadway.		40.47
Front st., 150 ft. n. to 70 ft. s. of Lane..		40.63
17th st., 60 ft. s. to 254 ft. n. of Vaughn....		24.71
Rodney ave., Hancock to Knott.....		62.42
Stark st., 7th to 12th.....		7.00
Front st., Quimby to 404 ft. s. thereof....		36.33
Hancock st., 200 ft. e. E. 17th to E. 15th..		1.41
E. 11th st., Belmont to E. Glisan.....		9.03
E. Burnside st., E. 8th to E. 28th.....		80.43

1st st., Madison to Stark.....	.28
Clackamas st., E. 15th to E. 24th.....	2.60
19th st. E., Multnomah to Weidler.....	136.79
Sherman st., 6th to 300 ft. w. thereof.....	.16
E. Salmon st., E. 15th to E. 33rd.....	71.78
Washington st., Burnside to City Park....	9.48
3rd st., Main to Glisan.....	16.99
Front st., Arthur to Seymour.....	1.56
Overton st., 12th to 25th.....	56.01
Arthur st., Hood to 1st.....	9.45
4th st., Burnside to Glisan.....	79.17
Curry st., Multnomah to 2nd.....	2.40
Union ave., Alberta to Love D. L. C.....	67.68
Mississippi ave., Morris to Prescott.....	3.18
E. 22nd st., Dunn's add. to E. Burnside....	.30
Albina ave., Page to River.....	331.24
Pine st., Front to 6th.....	11.25
Peninsular ave., Pippin to Columbia b'l'v'd	56.67
Hood st., Marquam gulch to Grover.....	353.00
Main st., Front to 14th.....	2.67
Failing st., Williams to Union ave.....	77.01
1st st., Madison to Columbia.....	3.27
Powell st., Milwaukee to E. 21st.....	31.46
10th st., Washington to Front.....	546.40
Corbett st., Hood to Seymour.....	122.86
E. Washington st., Union ave. to E. Water.	.30
Williams ave., McMillen to Morris.....	69.57
E. Alder st., Union ave. to E. 10th.....	6.42
1st st., n. line to s. line of Alder.....	18.49
16th st., Washington to Thurman.....	75.65
Mallory ave., Mason to Going.....	.72
Hancock st., E. 24th to County road.....	16.54
Front st. at Lane	37.02
E. 20th st., Hawthorne ave. to E. Yamhill..	.01
Weidler st., E. 1st to E. 21st.....	92.01
Front st. at Wood	603.87
Clackamas st., Union ave. to E. 7th.....	46.20
1st st. at Grover	203.51
2nd st., Morrison to Glisan.....	3.96
Lane st., Russell to Page.....	26.12
Brooklyn st., E. 10th to Milwaukee.....	3.16
Holladay ave., Larrabee to E. 12th.....	85.83
E. 30th st., Hawthorne ave. to E. Salmon..	.07
Colfax st., Union ave. to Garfield ave.....	1.48

16th st., College to Davenport.....	303.76
Hood st. fill.....	31.97
14th st., Burnside to Xavier.....	1,048.99
Marion ave., E. 9th to E. 19th.....	2,234.31
Corbett st., n. of Grover.....	59.58
Dekum ave., Piedmont Park to Columbia Heights	7.87
Van Houten st., Strong add. to Columbia boul.	606.45
E. Ash st., E. 28th to block 2, Manning's add.	72.55
E. 34th st., Broadway to Powell.....	4,041.34
Loring st., Albina ave. to Randolph.....	349.28
Wheeler st., McMillen to blocks 9 and 10, E. Irving's add.	9.95
Knott st., Union ave. to e. line Albina....	81.83
Denver ave., Killingsworth to Portland boul.	30.97
Claremont ave., Base Line road to Villa ave.	.16
E. 8th st., Knott to Siskiyou.....	3,360.40
E. 10th st., Knott to Siskiyou.....	800.38
Hereford st., Dawson to Hodge.....	161.83
Johnson st., 15th to 24th.....	517.45
Jefferson st., Front to Chapman.....	456.12
E. Taylor st., E. 34th to Myrtle.....	468.82
E. Madison st., E. 34th to E. 37th.....	2.62
Clackamas st., E. 24th to E. 28th.....	49.88
E. 6th st., Mason to Alberta.....	69.72
Knott st., E. 7th to E. 14th.....	13,412.90
Clackamas ave., E. 9th to E. 19th.....	27.75
E. Morrison st., Union ave. to E. 7th.....	318.51
E. 27th st., Clinton to N. L. tract SE. Portland Heights	40.71
Vancouver ave., Wheeler to Broadway....	18.60
21st st., Spring to Clifton.....	22.52
E. Stark st., E. 9th to E. 12th.....	305.81
Tabor ave., Clinton to Division.....	157.93
E. 44th st., Hawthorne Ave. add. to lot C..	9.48
E. 26th st., Holladay to Sandy road.....	104.20
E. 52nd st., E. Salmon to Hawthorne ave..	1,598.29
E. 18th st., Karl to Rhine.....	141.98
Tabor ave., Clinton to Ellsworth.....	209.48
Jordan st., Dawson to Butler.....	104.01
Clackamas st., E. 9th to E. 19th.....	34.74
Corbett st. fill at Pennoyer.....	144.23
Vancouver ave., Broadway to Russell.....	360.58
E. Stark st., E. 7th to E. Water.....	3,552.63

E. 27th st., E. Stark to E. Ankeny.....	280.76
Ross st., Multnomah to Dixon.....	90.23
Glenn ave., Hawthorne to E. Salmon.....	201.96
Frankfort st., Milwaukie to Feurer's add..	784.51
E. 17th st., Tillamook to Knott.....	752.57
Hamilton ave., Corbett to Ohio.....	163.74
Fremont st., Multnomah to Central, Albina.	582.01
Ethel st., Ainsworth to Cambridge.....	40.34
3rd st., Main to Hall.....	1,325.76
E. Glisan st., E. 28th to E. L. Hawthorne 1st add.	186.69
Crosby st., Cherry to McMillen.....	42.31
E. 37th st., E. Stark to Hawthorne ave....	292.99
Flanders st., 19th to 23rd.....	1,041.41
Ellsworth st., E. 7th to E. 8th.....	3.93
Haven st., Dawson to Rutledge.....	117.71
Knott st., Union ave., to Williams.....	323.01
Maegly st., Williams ave. to Union ave....	366.82
E. 51st st., Hawthorne ave. to E. Salmon..	96.43
Williams ave., McMillen to block 59, Holladay	441.48
Grand ave., Shaver to Mason.....	35.78
E. 49th st., Hawthorne ave. to E. Salmon..	1,134.89
E. 17th st., Belmont to E. Morrison.....	78.97
E. 16th st., Tillamook to Knott.....	620.20
Fargo st., Vane to Gantenbein.....	76.55
E. 6th st., Fremont to Beech.....	94.00
Russell st.	330.53
Fargo st., Williams to Vane.....	153.12
E. 6th st., Ainsworth to s. l. Woodlawn....	71.45
Clinton st., E. 36th to E. 37th.....	61.51
Franklin st., w. l. E. 28th to 226 ft. w. thereof Gladstone ave., w. l. Kenilworth to east boundary line of city.....	28.52
West Park st., Stark to Yamhill.....	297.83
Harding st., Goldsmith to River.....	277.98
Blandena st., Michigan to Vancouver ave..	216.51
12th st., Washington to Yamhill.....	217.17
Albina ave., Fremont to Skidmore.....	393.05
E. Kelly st., E. 26th to E. 37th.....	9.54
Tibbetts st., E. 26th to E. 37th.....	10.31
College st., 3rd to 4th.....	157.91
E. 10th st., Going to Alberta.....	47.20
E. 10th st., Going to Alberta.....	5.25
Stark st., 4th to 3rd.....	66.80

E. 15th st., Umatilla to Lexington.....	161.76
Cherry st., Larrabee to Crosby.....	54.79
E. 37th st., Franklin to Division.....	179.26
Green ave., Ford to Park.....	289.29
Frances ave., e. l. to w. l. of Kenilworth...	326.20
E. 30th st., Alberta to North.....	345.65
Hannaford st., Ellsworth to Division.....	59.01
Goldsmith st., Irving D. L. C. to Albina ave.	25.66
E. 9th st., Failing to Shaver.....	36.22
Killingsworth ave., Union ave. to Patton ave.	199.68
E. 78th st., Base Line road to E. Glisan....	213.13
Haven st., Princeton to Dawson.....	188.30
Hood st., Grover to Lane.....	475.80
Garfield ave., Shaver to Alberta.....	143.21
Central ave., Belmont to Base Line road...	308.31
E. 18th st., Tillamook to Brazee.....	40.04
Dwight st., Dawson to Willis B'l'v'd.....	290.40
Stanton st., E. 7th to E. 14th.....	9,076.20
E. 19th st., Brazee to Knott.....	248.98
Siskiyou st., E. 7th to E. 14th.....	8,675.42
12th st., Washington to Hoyt.....	978.55
Rockwell st., Madrona to block 1, Woodlawn	206.50
Curtis st., Portland boul. to Pippin.....	201.02
Belmont st., E. 34th to Sunnyside 3rd add..	498.65
E. 41st west ½, Division to Ellsworth.....	50.35
Fern st., Dekum ave. to Scoffin's add.....	104.54
Montana ave., Killingsworth to Prescott...	29.21
	\$ 75,269.45 \$ 75,269.45

SEWERS

Balance as stated.....	\$ 1,068.73
Credited as follows:	
Whitaker st.	\$ 1.05
Cook ave. district	37.19
Williams ave., Alberta to Fremont.....	5.60
E. Alder, et al.	14.78
Tanner Creek	76.66
Ross st., Dixon to Hancock.....	.02
Florida st., Virginia to Macadam.....	50.00
Irvington district	143.39
E. 19th st., Knott to Klickitat.....	109.92
E. 17th st., Siskiyou to Knott.....	117.65
E. 16th st., Siskiyou to Knott.....	106.70

E. 21st st., Siskiyou to Knott.....	92.72
E. Madison st., Sunnyside add. to E. 41st.	13.80
7th st., Irving to Hoyt.....	12.50
Vaughn st., Alley blocks 29-31 to Vaughn..	7.80
E. 29th st., E. Pine to E. Stark.....	.70
Thurman st., block 27, Blythswood to Thur-	
man	94.85
E. 2nd st., E. Taylor to E. Alder.....	2.50
E. 28th st., E. Stark to E. Pine.....	63.75
16th st., Jackson to Harrison.....	81.35
E. 15th st., Tillamook to Thompson.....	30.00
Irvington Chain E. 8th, et al.	5.80
	\$ 1,068.73 \$ 1,068.73

STREET EXTENSION

Balance as stated	\$ 15,803.80
Credited as follows:	
Heights Terrace	\$ 10.00
E. Burnside, E. 28th to Goodsell ave.....	.50
Clinton st., E. 12th to Milwaukee.....	23.00
E. 15th st., Terminal block to Front.....	14.40
St. Helens road.....	110.15
16th st., Upshur to Front.....	7.75
Peninsular ave., Baldwin to Willis B'l'v'd..	39.00
Nevada st.	4.00
Union ave., Alberta to Love D. L. C.....	3.74
Clinton st., E. 36th to E. 37th.....	73.68
E. 15th st., Belmont to E. Yamhill.....	14.00
Elsmere ave., Hawthorne ave. to Division..	15.00
Dekum ave., Camden to Vancouver Co. road	14.00
E. 29th st., Broadway to Tillamook.....	57.00
E. 26th st., Hawthorne ave. to Dolan's add..	70.85
E. 17th st., E. Taylor to Brown's add.....	172.00
Francis ave., e. line blk. 11 to w. line blk. 1.	22.00
Belmont st., Prettyman ave. to e. city bndry.	16.00
Emerald st., Pippin to Willis B'l'v'd.....	28.65
Dekum ave., Camden to Vancouver Co. road	190.40
E. 16th st., Highland Park to Howe.....	84.50
Crown ave., Alpine to Davenport.....	670.40
Burrage st., Pippin to Farragut.....	20.67
Orange st., Paradise Spring to Myrtle.....	248.00
E. 19th st., Powell to Edgar.....	150.00
Portland boul.	172.17

E. 17th st., Highland Park to Howe.....	170.96
E. 30th st., n. 1. lot P, E. Portland Hts. to Ellsworth	180.20
E. 34th st., n. 1. lot L, E. Portland Hts. to Ellsworth	102.45
E. 33d st., n. 1. lot M, E. P. Hts. to Ells- worth	163.90
E. 27th st., n. 1. lot S, E. P. Hts. to Ells- worth	117.80
E. 35th st., n. 1. lot K, E. P. Hts. to Ells- worth	116.05
Brush st., Brush's add. to Tibbetts.....	474.00
E. 28th st., lot R, E. P. Hts. to Ellsworth..	79.90
E. 32nd st., lot N, E. P. Hts. to Ellsworth..	148.90
E. 29th st., lot Q, E. P. Hts. to Ellsworth..	100.40
E. 6th st., block 1, Woodlawn to Dekum..	505.54
Pearl st., Mt. Tabor Villa annex to Hibbard	417.50
Clinton st., Ravenswood to E. 37th st.....	30.00
Emerald st., Pippin to Willis boul.....	48.00
E. 26th st., Hawthorne ave. to Dolan.....	273.00
E. 7th st., Brazee to Fremont.....	622.85
E. 32nd st., Brooklyn to Ellsworth.....	168.00
Fremont st., Vancouver ave. to block 34, Central Albina	2,832.00
E. 7th st., blk 22, Woodlawn to Magnolia st.	43.00
E. 36th st., lot J, E. P. Hts. to Ellsworth..	345.00
E. 39th st., E. Salmon to E. Stark.....	264.60
E. 34th st., Sandy road to Sec. 25, T. 1 N., R. 1 E.	55.00
Sandy boul.	1,138.50
E. Salmon st., Sunnyside add. to Glencoe Park	285.00
Patton ave., Portland boul. to Columbia boul.	75.00
Heights Terrace	1,751.75
Villard ave., Pippin to Columbia boul....	264.79
E. Flanders st., Byrne's add. to Bronaugh's add.	102.20
E. Everett st., Byrne's add. to Bronaugh's add.	105.70
E. Burnside st., E. 30th to Quinn D. L. C... .	1,418.00
Fern st., Scoffin's add. to E. 13th.....	74.00
E. 30th st., E. Stark to Hawthorne ave....	143.70
Sumner st., Minnesota to M. Patton tract.	145.25

E. 13th st., Morgan to Scoffin's add.....	74.00
Prescott st., E. 35th to County road.....	568.00
13th st., Washington to Stark.....	167.00
	\$ 15,803.80 \$ 15,803.80

Respectfully submitted,
J. E. WERLEIN,
City Treasurer.

ANNUAL REPORT

—OF—

CITY ENGINEER

Portland, Oregon, January 5, 1909.

To the Honorable Mayor and Council of the City of Portland—

Gentlemen: I have the honor to herewith submit for your consideration a report of the work carried on and the money expended by and under the direction of the Engineering Department during the year ending December 31, 1908.

The area of the city, including the territory added at the last election, consists of 50 $\frac{1}{2}$ square miles, divided as follows:

	Acres.
West Side	6,920
East Side	24,272
Willamette River between harbor lines.....	1,394
	32,586

The cost of street work constructed under city ordinances is practically double that of the previous year, and is also of a more permanent character, and is classified as follows:

	Miles.
Asphalt	6.42
Bitulithic	7.61
Gravel	8.49
Macadam	8.74
Plank roadway	0.06
Graded	24.38
Stone blocks	0.22
Hassam	0.56
Steel bridge	0.08
Reinforced concrete bridge	0.10
	56.66

During the year 73,953 lineal feet of sewer have been completed, at a cost of \$77,407. The Brooklyn district sewer, in the southeastern portion of the city, will probably not be completed for a month or more, and cannot be included in this year's work. The contract price on this was \$242,377.52.

During the year a steel bridge was constructed on Union avenue across Sullivan Gulch, at a cost of \$61,248.45. This bridge is 408 feet long, 60 feet wide, with an asphalt pavement on the roadway, has double street car tracks, over which the Portland Railway Company regularly operate their cars.

On East Twenty-eighth street, crossing Sullivan Gulch, a reinforced concrete bridge 558 feet long and 60 feet wide has been constructed by the Northwest Bridge Works, at a cost of \$68,794.07. This work has not yet been accepted, as some differences have arisen regarding some of the methods of construction, and also with reference to portions of the specifications, and the matter is now being expeted.

PROPOSED HIGH BRIDGE

Owing to the fact that many of the river boats leave the docks at about the time that hundreds are coming over to the west side of the city, the cars are delayed while the draw is being opened. This has given rise to numerous complaints, and there has been developed a strong desire for a new bridge high enough to permit of the passage of vessels of all kinds without opening the draw, or at least a bridge so high that most of the river boats could pass under the draw.

A large petition from residents of the northeastern portion of the city was presented to the council asking that a bridge of this character be constructed north of the O. R. & N. Co.'s steel bridge.

In pursuance of this request, Mr. Ralph Modjeski, of Chicago, was engaged as consulting engineer at a compensation of \$5,000.00 in the matter of the proposed high bridge, with instructions to make a full preliminary report, embracing,

First—Recommendation as to the best location.

Second—Preliminary plans of one or more designs, consisting of maps and sketches showing alignment, location of piers and general outlines of the proposed structures.

Third—Approximate estimates of the cost of the above.

Fourth—A general discussion as to the location and designs submitted.

Further, to report on the question of subways in addition to the report on the bridge.

On September 1 Mr. Modjeski submitted his report, with which you are all familiar. Owing to the difficulty of finding a suitable location for and the excessive cost of the subway, he considered its construction entirely impracticable.

He reported that bridge commencing at Eighth and Davis streets, extending along Eighth street to Northrup street, and thence crossing the Willamette River, passing south of Dupont street to the intersection of Hancock and Wheeler streets, would probably cost \$3,250,-

000.00. The elevation of this bridge at the crossing of the river would be sufficiently high to permit all vessels to pass under it. The heaviest grade would be 4 per cent.

He also reported on a medium high bridge starting at Sixth and Irving streets, running northerly about 650 feet and thence across the Willamette River, terminating on the east side of Broadway and Larrabee street. This bridge provides for a clearance of 65 feet above high water at the center of the bascule span, and of 57½ feet at the harbor lines. All the river boats, by hinging their stacks, as is done on the Mississippi and Missouri Rivers, could pass under the structure at all times, excepting at extreme high water, without opening the bascule span.

He estimated the cost of this structure at \$1,380,000.00. The last design has been practically decided upon by the Special Bridge Committee. Also the matter of issuing bonds in the sum of \$2,000,000.00 to defray the cost of construction, procuring right of way and other incidental expenses. Quite a controversy, however, has arisen as to the advisability of locating this bridge nearer Hancock street, and this matter is now under consideration.

Another proposition has recently been made to construct a railway bridge and highway bridge side by side, at the foot of Glisan street, the railway bridge to be on about the same grade as the railroad track on the lower part of the steel bridge. This would have to be opened for the passage of nearly all the river boats. The highway bridge would start at Third and Glisan streets, ascending on a grade of about 6 per cent, at the middle of the river being about the same elevation as the proposed bridge at Broadway.

The highway bridge would extend to Oregon and Adams streets, on the east side of the river, and thence along Adams street to Holladay avenue.

This matter has been referred to the City Attorney and City Engineer, but has not yet been reported on.

RIVER BRIDGES

The Willamette River is now spanned by five bridges: The first one constructed being at Morrison street, consisting of three Pratt Truss Combination spans, each 260 feet long, Steel draw span 310 feet, and one Howe Truss Span 160 feet long. It was erected by a private corporation at a cost of about \$175,000.00, the work commencing in the fall of 1886 and being completed in the spring of 1887. In 1895 the city purchased this bridge, and in 1905 replaced it with a steel bridge 1,120 feet long, exclusive of approaches, and 54 feet wide, at a cost of \$385,383.76.

The first steel bridge was the one built by the O. R. & N. Ry. Co., about 1888, and used by said company and the Southern Pacific Company to enter the terminal grounds.

This bridge is 1,245 feet long, including the approaches, with a clear roadway 19 feet wide, and is provided with an upper deck for pedestrians, teams and street cars. Formerly toll was charged, but arrangements were afterwards made, and are still in force, whereby Multnomah County, by paying \$350.00 per month, has the free use of the bridge for teams and foot passengers.

The Madison street bridge was commenced in 1889, and completed in 1890, by the Columbia Bridge Company. It was a Pratt Truss, 40 feet wide and 1,470 feet long, exclusive of approaches. In November, 1891, the city purchased this bridge for \$142,500.00, which was an advance of 10 per cent over the actual cost of construction, as the purchase included all the rights acquired by the company by the legislative act, under the provisions of which the structure was erected.

In 1900 Multnomah County spent between \$22,000.00 and \$23,000.00 reconstructing this bridge. The bridge is now practically worn out, and will have to be replaced with a new one during the present year. A bond issue of \$450,000.00 to cover this expense has been authorized and the bonds are now being advertised for sale.

In 1893 the city completed the Burnside Street Steel Bridge, at a cost of \$262,500.00. This bridge is 52 feet wide and 820 feet long, exclusive of the approaches. It is now in excellent condition, extensive repairs having been recently completed at a cost to Multnomah County of \$37,613.97.

The fifth bridge across the Willamette River is the one recently completed and owned by the Spokane, Portland & Seattle Railway Company, located a short distance above St. Johns, and near the northern boundary of Portland. This bridge is solely for railroad use and is 27½ feet wide in the clear and 1,766½ feet long, exclusive of approaches.

All of the bridges open for steamboats, the draws swinging on center piers, and with the exception of the last named bridge, have double track street car lines, and are also designed for teams and foot passengers.

There are also six steel bridges spanning gulches within the city limits, their character and the cost per square foot being more fully set forth in accompanying table, recently compiled by Mr. J. B. C. Lockwood, who was Consulting Engineer for several of the bridges.

MUNICIPAL REPAIR PLANT

I am of the opinion that it would be economy on the part of the

city to install a municipal repair plant in order to properly care for the many miles of streets now constructed and under maintenance by the city. This would necessitate the purchase of a tract of land in some convenient location, large enough to meet present and future requirements, the erection of a small asphalt plant, rock crusher, bins, storage sheds, etc. It would also mean the purchase of dump wagons, horses and harness, asphalt rollers in addition to the road rollers now owned by the city, and the necessary street and plant tools, with a fully equipped laboratory.

With a proper equipment there is no reason why the city could not repair any hard surface pavement for a less amount than it now has to pay for such repairs. Should this prove to be the fact, the making of a maintenance contract, when a street is improved, could be eliminated, and the city could take charge of a street when accepted and keep the same in order, instead of each year paying some contracting company 2½ cents, or whatever the price might be, per square yard for a period of 10 years. If this plan was carried out, it would result in a more rigid inspection of the work when first constructed. Samples of asphalt and other pavements could be tested each day in the laboratory, and the city could have full knowledge of the character and quality of materials being used.

On hard surface pavements the repairing of cuts and worn-out places is often delayed, owing to the paving companies being engaged on contract work, and claiming that they cannot leave this work for a long enough time to make the needed repairs. In the meantime the holes in the pavement are steadily growing larger, as is also the cost of the repairs.

If the city had a repair plant a sufficient supply of stone blocks, brick, crushed rock, gravel, lumber and other material could be kept constantly on hand, so that in an emergency repairs could be cheaply and quickly made.

Where streets are being repaired much of the old material could be saved and put to some use in repairing worn-out places in the old streets.

There has always been more or less trouble where cuts are made in hard surface pavements in getting the material used in refilling the trenches, properly tamped, so that no settlement can occur after the pavement is replaced.

At present time the party opening the street deposits in our office a sum sufficient to cover the cost of replacing the pavement, while he does the refilling. Unless this is properly done, the street will in a short time show a depression.

I am of the opinion that better results would be obtained by adopting the plan in vogue in some cities of having, as soon as the

water, sewer or gas connection is made, the Engineer's Department take charge and attend to the refilling of the trench and restoring the pavement. By this means any material not suitable for filling could be removed and replaced with sand or gravel.

The party having the street opening made could be required to deposit with the City Treasurer an amount sufficient to cover all the work. This office is now considering the preparation of an ordinance with reference to this matter.

Under the provisions of resolutions adopted by the Executive Board the department has constructed 7,148 lineal feet of cement sidewalk, at a cost of \$6,964.00, where the old walks were defective, and the property owners, after being notified, neglected to repair the same. The actual cost of this work, plus 10 per cent for engineering, advertising and inspection, as provided for by the charter, is assessed against the abutting property.

On January 1, 1908, there were in operation 673 arc lights on the west side of the river and 726 on the east side, also 1394 incandescents. At the present time there are 728 arc lights on the west side and 884 on the east side, and 1,740 incandescents. The bills as rendered for electric lighting for the month of December, 1908, amounted to \$9,226.60, and for the entire year \$100,802.63.

The charter provides that in the construction of street and sewer improvements, when the assessment is levied on the property benefited, the Auditor, in addition to the actual cost of the work at the contract prices, shall include a sum not exceeding 5 per cent thereof for advertising, engineering and superintendence. Of this 5 per cent at least 4 should be considered as engineering and superintendence.

During the year 1908 the city received from this source \$76,736.37, which would mean that at least \$61,389.10 was practically earned by this department.

I herewith transmit tables and statements giving in detail the various kinds and quantities of street and sewer work executed, together with a statement relating to the expenditure of money appropriated by the council for the use of this department.

Very respectfully,

D. W. TAYLOR,
City Engineer.

STREET WORK DONE DURING 1908

Number.	Name of Street.	Date of Estimate.	No. of Ord.
1	Ankeny street	December 16, 1907	17557
2	Alberta street	January 31, 1908	17635
3	Alder street, East	November 26, 1906	16157
4	Alley thro' blk. 5, Proebstel's add.	July 22, 1907	16960
5	Albina avenue	July 23, 1907	16958
6	Alberta street	September 30, 1907	17216
7	Ash street, East	September 30, 1907	17349
8	Brazeo street	June 19, 1908	18102
9	Belmont street	April 9, 1908	17874
10	Benton street	July 22, 1907	16957
11	Borthwick street	May 17, 1907	16826
12	Belmont street	February 27, 1907	16395
13	Belmont street	February 27, 1907	16384
14	Blandena street	March 6, 1908	17730
15	Curtis street	December 16, 1907	17555
16	Central avenue	September 7, 1907	17081
17	College street	February 24, 1908	17733
18	Clackamas avenue	December 16, 1907	17513
19	Cherry street	February 12, 1908	17563
20	Clinton street	December 16, 1907	17556
21	Crosby street	December 16, 1907	17459
22	Clackamas avenue	December 16, 1907	17511
23	Chapman street	August 31, 1907	17076
24	Clarke street	September 30, 1907	17352
25	Claremont avenue	May 22, 1907	16834
26	Cambridge street	December 16, 1907	17514
27	Cherry street	August 31, 1907	17070
28	Clackamas street	September 30, 1907	17218
29	Clackamas street	September 30, 1907	17347
30	Dekum avenue	May 20, 1908	18050
31	Dwight street	December 16, 1907	17515
32	Dixon street	May 27, 1907	16831
33	Denver avenue	July 23, 1907	16940
34	Eighteenth street, East	March 21, 1908	17755
35	Eighteenth street, East	April 24, 1907	16590
36	Elsmere avenue	April 29, 1907	16651
37	Ebey street	August 31, 1907	17072
38	Elm street	May 2, 1907	17931
39	Elizabeth street	August 27, 1907	17022
40	Ethel street	February 24, 1907	17736

STREET WORK DONE DURING 1908—Continued

Extent of Improvement.
From w. l. 4th st. to e. l. 6th st
From w. l. E. 15th st., N., to e. l. E. 14th st., N
From w. l. Union ave. to e. l. E. Water st.
From s. l. Morris st. to n. l. Stanton st.
From n. l. Fremont st. to s. l. Skidmore st.
From e. l. Williams ave. to w. l. Union ave.
From e. l. E. 28th st. to e. l. blk. 2, Manning's add, extd. south.
From e. l. E. 14th st. to w. l. E. 24th st
From w. l. E. 34th st. to w. l. Sunnyside 3rd add.
From s. l. Dupont st. to s. l. Hancock st.
From n. l. Stanton st. to s. l. Morris st.
From e. l. E. 8th st. to w. l. E. 9th st.
From 100 ft. e. e. l. of E. 20th st. to w. l. E. 34th st
From w. l. Michigan ave. to e. l. Vancouver ave.
From n. l. Portland blvd. to s. l. Pippin st.
From n. l. Belmont st. to s. l. Base Line road.
From w. l. 3rd st. to e. l. 4th st.
From e. l. E. 9th st. to w. l. E. Nineteenth st.
From s'westly l. of Larrabee st. to n'eastly l. Crosby st., extd. north.
From w. l. E. 37th st. to e. l. E. 36th st.
From n. l. Cherry st. to s. l. McMillen st.
From w. l. E. 9th st. to a point 137 ft. w. of w. l. of E. 8th st.
From s. l. Spring st. to n. l. Elizabeth st.
From northeasterly l. of Loring st. to southwesterly l. Goldsmith st.
From n. l. Base Line road to s. l. Villa ave.
From e. l. Union ave. to w. l. E. 9th st.
From e. l. Williams ave. to w. l. E. First st.
From center line E. 24th st. to w. l. of E. 28th st.
From w. l. Union ave. to e. l. Crosby st.
From w. l. Piedmont Park to e. l. Vancouver road.
From n. l. Dawson st. to s. l. Willis blvd.
From w. l. Ross st. to e. l. Larrabee st.
From n. l. Killingsworth ave. to s. l. Portland blvd.
From n. l. Tillamook st. to s. l. Brazeo st.
From n. l. Brazeo st. to s. l. Knott st.
From n. l. Division st. to s. l. Hawthorne ave.
From n. l. Base Line road to s. l. Villa ave.
From w. l. 16th st. to e. l. Montgomery st. drive.
From w. l. 16th st. to e. l. 20th st., n. of Spring st., extd. south.
From s. l. Ainsworth ave. to n. l. Cambridge st.

Lineal Feet.						Lumber, B. M.
Plank Roadway.	Elevated Roadway, Steel and Concrete Bridges.	Stone Block Header, Double row	Tile, 3-in. Diameter.	Vitrified Pipe, 6-in. Diameter.	Iron Pipe.	
.....		28.3	676.45	22	.....	.....
.....				400	.....	6,000
.....						
.....		144.2	1,293.67	158	.....	.....
.....						
.....		401.5	4,207.9	.....	.....	.....
.....				10	.....	.....
.....				85	.....	.....
.....						
.....				20	.....	.....
.....		29.7	400	.....	.....	.....
.....				52	.....	13,744
.....						
.....						
.....			1,000	.....	.....	.....
.....						
.....		260	2,528	168	.....	.....
.....		88	1,907	88	.....	.....
.....						
.....		951.7	12,013.02	1,003	.....	19,744

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Cubic Yards.			
		Exc.	Emb.	Gravel.	Macadam.
1	Ankeny street	122	.....	.....	.....
2	Alberta street	169	142	195.6	.....
3	Alder street, East	8	33,657	.....	1,100.0
4	Alley thro' blk. 5, Proebstel's add.	9	387	.....	85.2
5	Albina avenue	1,613	19	.....	2,283.7
6	Alberta street	2,243	112	.....	.....
7	Ash street, East	302	902	446.8	.....
8	Brazee street	690	153	.....	.....
9	Belmont street	663	.....	.....	.....
10	Benton street	2,164	.....	.....	221.6
11	Borthwick street	235	128	.....	264.8
12	Belmont street	80	3,487	.....	221.2
13	Belmont street	1,751	195	.....	.....
14	Blandena street	503	1,069	.....	.....
15	Curtis street	9,938	129	.....	.....
16	Central avenue	2,675	2,745	734.5	.....
17	College street	53	67	.....	221.2
18	Clackamas avenue	5,071	518	.....	.....
19	Cherry street	91	51	.....	184.4
20	Clinton street	215	98	191.5	.....
21	Crosby street	253	5	.....	358.6
22	Clackamas avenue	383	92	.....	.....
23	Chapman street	77	36	.....	.....
24	Clarke street	243	213	.....	457.1
25	Claremont avenue	7,099	1,327	2,177.2	.....
26	Cambridge street	260	67	.....	.....
27	Cherry street	.....	.....	.....	53.7
28	Clackamas street	659	.....	766.4	.....
29	Clackamas street	182	76	77.0	996.9
30	Dekum avenue	3,698	72	.....	.....
31	Dwight street	3,768	256	.....	.....
32	Dixon street	278	10	.....	526.4
33	Denver avenue	.....	8	.....	.....
34	Eighteenth street, East	361	2,163	.....	.....
35	Eighteenth street, East	5,061	23	.....	.....
36	Elsmere avenue	9,653	1,257	2,983.9	.....
37	Ebey street	2,857	1,423	.....	.....
38	Elm street	854	441	.....	.....
39	Elizabeth street	1,164	186	.....	.....
40	Ethel street	557	6	.....	.....
Total		66,002	51,520	7,572.9	6,974.8

STREET WORK DONE DURING 1908—Continued.

Sq. ft. Artificial Stone Sidewalk.	Lineal Feet.					
	Sidewalk Without Curb.		Curb.		Crosswalk.	
	Wood.	Gravel.	Art. Stone.	Wood.	Art. Stone.	Wood.
1,009	.....	.....	183.5	.....	.....	.....
.....	405.4	.....	.....	405.4	.....	.....
.....	1,644	.....	.....	1,764	.....	374.
.....	570.96	.....	.....	.....	.....	.....
21,245	.....	.....	3,658.2	.....	.....	278.4
.....						
1,396	300	.....	564.8	300	.....	.....
27,908	.....	.....	4,688.8	.....	.....	.....
1,889	.....	.....	848.17	.....	.....	.....
1,800	.....	.....	300	.....	.....	.....
2,863	.....	.....	478	.....	.....	.....
960	240	.....	160	240	.....	.....
16,112	.....	.....	2,767.1	.....	.....	.....
21,158	.....	.....	3,556.82	.....	.....	1,398
.....	4,763.12	.....	.....	4,995.12	.....	684
.....	1,710.6	.....	.....	1,705.8	.....	29
.....						
.....	4,499	.....	.....	4,579	.....	288
1,800	.....	.....	400	.....	.....	.....
2,458	.....	.....	409.6	.....	.....	.....
1,204	.....	.....	400	.....	.....	228
.....	722	.....	.....	762	.....	144
.....						
3,000	.....	.....	548	.....	.....	.....
.....	4,867.05	.....	.....	5,027.05	.....	552.4
.....	2,460	.....	.....	2,540	.....	232
.....						
.....	.....	.....	.....	.....	.....	96
9,263	.....	.....	1,479	.....	.....	470.3
.....	1,799.6	.....	.....	1,914	.....	246
.....	3,244	.....	.....	3,439.5	.....	286
.....	.....	.....	.....	.....	.....	144
.....	4,810.9	.....	.....	4,906.9	.....	746
4,500	600	.....	1,414.8	.....	.....	.....
6,000	.....	.....	1,000	.....	.....	.....
27,609	247.25	.....	4,640.3	255.8	.....	1,080
.....						
8,459	.....	.....	1,389	.....	.....	.....
6,051	.....	.....	1,012	.....	.....	.....
.....	885.02	.....	.....	965.02	.....	160
168,684	31,969.3	1,799.6	29,898.09	33,799.59	.....	7,436.1

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	No. of Inlets.	Sq. yds. Stone Block Pavement.	
			New.	Redressed and Relaid.
1	Ankeny street	2	.....	.....
2	Alberta street .....	.....	.....	.....
3	Alder street, East	10	.....	.....
4	Alley thro' blk. 5, Proebstel's add. ....	.....	.....	.....
5	Albina avenue .....	.....	.....	.....
6	Alberta street .....	.....	.....	.....
7	Ash street, East .....	.....	.....	.....
8	Brazee street	8½	.....	.....
9	Belmont street .....	.....	.....	.....
10	Benton street .....	.....	.....	.....
11	Borthwick street .....	.....	.....	.....
12	Belmont street .....	.....	.....	.....
13	Belmont street .....	.....	2,375.7	.....
14	Blandena street	1	.....	.....
15	Curtis street .....	.....	.....	.....
16	Central avenue .....	.....	.....	.....
17	College street .....	.....	.....	.....
18	Clackamas avenue .....	.....	.....	.....
19	Cherry street .....	.....	.....	.....
20	Clinton street .....	.....	.....	.....
21	Crosby street	1	.....	.....
22	Clackamas avenue .....	.....	.....	.....
23	Chapman street .....	.....	133	.....
24	Clarke street	2	.....	.....
25	Claremont avenue .....	.....	.....	.....
26	Cambridge street .....	.....	.....	.....
27	Cherry street .....	.....	.....	.....
28	Clackamas street .....	.....	.....	.....
29	Clackamas street .....	.....	.....	.....
30	Dekum avenue .....	.....	.....	.....
31	Dwight street .....	.....	.....	.....
32	Dixon street .....	.....	.....	.....
33	Denver avenue .....	.....	.....	.....
34	Eighteenth street, East .....	.....	.....	.....
35	Eighteenth street, East .....	.....	.....	.....
36	Elsmere avenue .....	.....	.....	.....
37	Ebey street .....	.....	.....	.....
38	Elm street	6	.....	.....
39	Elizabeth street	4	317.9	.....
40	Ethel street .....	.....	.....	.....
Total		34½	2,826.6	.....

STREET WORK DONE DURING 1908—Continued

Square Yards.				Lineal Feet Full Width Improvement.	Actual Cost of Improvem't.
Bitulithic.	Asphalt.	Concrete.	Vitrified Brick.		
691.45			...	375	\$ 2,039.13
.....			...	200	653.70
.....			...	980	17,992.00
.....			...	288	576.30
.....			...	2,280	11,525.67
.....			...	1,120	980.01
.....			...	430	2,414.19
.....	8,088.4	.....	...	2,380	21,720.36
1,943.6		869	869	660	9,228.27
.....			...	270	1,805.53
.....			...	288	1,336.33
.....			...	200	2,298.31
6,703.9		1,682.3	...	2,150	28,304.56
.....			...	2,350	4,730.39
.....			...	2,500	5,549.02
.....			...	860	3,864.06
.....			...	200	643.61
.....			...	2,430	4,025.17
.....			...	200	871.00
.....			...	205	990.64
.....			...	300	1,591.21
.....			...	400	584.15
667		88.7	...	200	2,484.45
.....			...	460	2,258.39
.....			...	2,577	11,244.92
.....			...	1,300	1,628.09
.....			...	430	140.90
.....			...	970	2,161.53
.....			...	2,110	4,661.62
.....			...	875	2,026.77
.....			...	1,750	2,749.21
.....			...	450	1,716.23
.....			...	2,550	3,649.71
.....	2,201.4	.....	...	1,000	6,038.48
1,566			...	500	6,939.42
.....			...	2,570	17,000.71
.....			...	575	898.86
3,804.4			...	1,520	13,631.31
2,910		317.9	...	950	11,891.14
.....			...	500	872.45
18,276.35	10,289.8	2,957.9	869	42,353	\$215,717.80

STREET WORK DONE DURING 1908—Continued

Number	Name of Street.	Date of Estimate.	No. of Ord.
41	Ellsworth street	January 31, 1908	17634
42	Everett street, East	September 10, 1907	17071
43	Eighteenth street, East	September 30, 1907	17351
44	Eighth street, East.....	December 16, 1907	17554
45	Forty-first street, East (w. 1/2).....	May 20, 1908	18094
46	Fern street	May 2, 1908	17930
47	Fargo street	September 26, 1906	15883
48	Francis avenue	September 30, 1907	17209
49	Fifteenth street, East.....	September 30, 1907	17348
50	Forty-ninth street, East.....	January 31, 1908	17636
51	Fifty-second street, East.....	January 31, 1908	17632
52	Fifty-first street, East.....	January 31, 1908	17633
53	Frankfort street	July 18, 1907	16937
54	Franklin Court	September 19, 1908	17871
55	Fiftieth street, East.....	January 31, 1908	17561
56	Flint street	June 29, 1907	16837
57	Forty-fourth street, East.....	December 16, 1907	17460
58	Flanders street	June 3, 1908	18030
59	Fremont street	October 19, 1906	16025
60	Fremont street	October 19, 1906	16029
61	Fargo street	February 24, 1908	17737
62	Fargo street	December 16, 1907	17516
63	Forty-fourth street, East.....	December 16, 1907	17461
64	Flanders street, East.....	July 23, 1907	16962
65	Green avenue	April 7, 1908	17877
66	Garfield avenue	February 8, 1907	16332
67	Going street	September 5, 1906	15914
68	Grand avenue	May 17, 1907	16948
69	Goldsmith street	December 16, 1907	17510
70	Goldsmith street	December 16, 1907	17509
71	Grand avenue	May 2, 1908	17929
72	Grant street, East.....	December 16, 1907	17470
73	Glenn avenue	December 16, 1907	17512
74	Glisan street, East.....	September 30, 1907	17212
75	Gantenbein avenue	October 19, 1906	16033
76	Grand avenue	December 16, 1907	17469
77	Grand avenue	February 1, 1907	16341
78	Grand avenue	June 29, 1907	16832
79	Grand avenue	October 10, 1906	15957
80	Gladstone avenue	July 23, 1907	16947

STREET WORK DONE DURING 1908—Continued

Extent of Improvement.
From center line E. Seventh st. to center line of E. Eighth st.
From w. l. E. Twenty-eighth st. to e. l. of E. Twenty-seventh st.
From n. l. Rhone st. to s. l. of Karl st.
From s. l. Going st. to n. l. of Prescott st.
From s. l. Division st. to n. l. of Ellsworth st.
From n. l. Dekum ave. to s. l. lot 7, blk. 6, Scoffin's add., extd. east.
From w. l. Gantenbein ave. to e. l. Borthwick st.
From e. l. Kenilworth extd. n. to w. l. Kenilworth, extd. n.
From n. l. Umatilla ave. to s. l. Lexington ave.
From n. l. Hawthorne ave. to s. l. E. Salmon st.
From n. l. Hawthorne ave. to s. l. E. Salmon st.
From n. l. Hawthorne ave. to s. l. E. Salmon st.
From e. l. Milwaukie st. to e. l. Feurer's add.
From w. l. E. 28th st. to 226 ft. w. of w. l. E. 28th st.
From n. l. Hawthorne ave. to s. l. E. Salmon st.
From s. l. Russell st. to a line 250 ft. s. of s. l. of Page st.
From s. l. Hawthorne ave. to n. l. of lot C, Hawthorne ave. add.
From w. l. Nineteenth st. to e. l. of Twenty-third st.
From w. l. Multnomah extd. south to w. l. Central Albina, extd. south.
From w. l. Union ave. to e. l. Vancouver ave.
From w. l. Williams ave. to e. l. Vancouver ave.
From w. l. Vancouver ave. to e. l. Gantenbein ave.
From s. l. lot C, Hawthorne ave. add. to center line E. Lincoln st.
From w. l. E. Eighth st. to w. l. E. Ninth st.
From w. curb line Ford st. to n. curb line of Park ave.
From n. l. Shaver st. to n. l. Alberta st.
From e. l. Union ave. to w. l. E. Eleventh st.
From s. l. E. Clay st. to the n. l. Ellsworth st.
From line 772.2 ft. n. of n. l. Wm. Irving D.L.C. to s. e. line Albina ave.
From n. l. Wm. Irving's D.L.C. to line 298.2 ft. northerly therefrom.
From n. l. Shaver st. to s. l. Mason st.
From e. l. Marguerite ave. to e. l. of Park View, extd.
From n. l. Hawthorne ave. to s. l. E. Salmon st.
From e. l. E. Twenty-eighth st. to e. l. Hawthorne's First add.
From s. l. Morris st. to westerly extension n. l. blk. 4, Albina add.
From s. l. Prescott st. to n. l. Mason st.
From s. l. E. Everett st. to a point 75 ft. s. of s. l. E. Pine st.
From s. l. E. Everett to line 35 ft. n. of and par. with n. l. E. Everett st.
From n. l. Belmont st. to s. l. E. Stark st.
From w. boundary l. Kenilworth to e. boundary l. of City of Portland.

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Cubic Yards.			
		Exc.	Emb.	Gravel.	Macadam.
41	Ellsworth street				
42	Everett street, East	21	630		
43	Eighteenth street, East	2,291		649.4	
44	Eighth street, East	186	39		
45	Forty-first street, East (w. 1/2)		37		
46	Fern street	1,910	54		
47	Fargo street	875		1,093.8	
48	Francis avenue	12,487	2,074	2,999.1	
49	Fifteenth street, East	2,409	16	791.7	
50	Forty-ninth street, East	693	282		
51	Fifty-second street, East	669	377		
52	Fifty-first street, East	318	865		
53	Frankfort street	7,363	182	2,028.6	
54	Franklin Court	397	162		
55	Fiftieth street, East	151	566		
56	Flint street	786	175		775.5
57	Forty-fourth street, East	1,337	91		
58	Flanders street	1,615			
59	Fremont street	1,820	81	2,095.2	
60	Fremont street	810	849	1,593.3	
61	Fargo street	335			
62	Fargo street	258			357.4
63	Forty-fourth street, East	298			
64	Flanders street, East	1,047	488		272
65	Green avenue	542	438		
66	Garfield avenue	7,704	1,510		
67	Going street	1,877		1,980	
68	Grand avenue				
69	Goldsmith street	149			113.5
70	Goldsmith street	297	98		259.3
71	Grand avenue	156	60		
72	Grant street, East	3,356			
73	Glenn avenue	258	1,111	575.1	
74	Glisan street, East	1,394			1,267.5
75	Gantenbein avenue	733	52	919.5	
76	Grand avenue	2,058	537		
77	Grand avenue	1,817	147		
78	Grand avenue	125			
79	Grand avenue	1,140	132		
80	Gladstone avenue	16,608	11,349		
Total		76,290	22,402	14,725.7	3,045.3

STREET WORK DONE DURING 1908—Continued

Sq. ft. Artificial Stone Sidewalk.	Lineal Feet.					
	Sidewalk Without Curb.		Curb.		Crosswalk.	
	Wood.	Gravel.	Art. Stone.	Wood.	Art. Stone.	Wood.
605						
1,800	100		300	100		
7,214			1,204			
6,032			962.8			92
	1,085			1,161.3		342
7,393			1,236.8			276
27,650	355.8		4,683.7	367.8		992
	1,501.3			1,525.3		144
9,234			1,503.2			112
9,236			1,506			84
9,230			1,502.4			112
19,395			3,248.5			864
2,712			452			
9,232			1,502.8			112
4,977			977.5			
	1,443.2			1,491.8		176
600			742			
12,260			2,292.1			876.8
1,892	240		437.84	264		471
2,184			363.94			
	1,228.14			1,324.14		186
2,356	40		394	50		144
			1,239.78			
	3,920.8			3,974.8		270
						792
14,226			2,675			
3,050	40.5		508.2	41		41
3,900			650			
8,584			1,430.8			
9,012			1,491.9			156
						432
			1,341.6			470.6
6,893						
	1,400			1,400		
18,691			481			
1,331			119.6			
3,200			200			
44,640	1,815.9		7,465	1,901.4		2,067.4
247,529	13,170.64		40,912.46	13,601.54		9,212.8

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Lineal Feet Gutter.		
		Box.	Open.	Stone.
41	Ellsworth street .....	.....	.....	.....
42	Everett street, East.....	.....	.....	.....
43	Eighteenth street, East.....	.....	.....	.....
44	Eighth street, East .....	.....	.....	.....
45	Forty-first street, East (w. ½).....	.....	.....	.....
46	Fern street	180	.....	.....
47	Fargo street .....	.....	.....	184
48	Francis avenue	431	.....	640
49	Fifteenth street, East.....	.....	.....	.....
50	Forty-ninth street, East.....	36	.....	.....
51	Fifty-second street, East.....	.....	.....	.....
52	Fifty-first street, East.....	36	.....	.....
53	Frankfort street	239	.....	576
54	Franklin Court .....	.....	.....	.....
55	Fiftieth street, East	36	.....	.....
56	Flint street .....	.....	.....	.....
57	Forty-fourth street, East.....	102	.....	.....
58	Flanders street .....	.....	.....	.....
59	Fremont street .....	.....	.....	462
60	Fremont street .....	.....	.....	228
61	Fargo street .....	.....	.....	.....
62	Fargo street .....	.....	.....	.....
63	Forty-fourth street, East.....	30	.....	.....
64	Flanders street, East.....	.....	.....	96
65	Green avenue .....	.....	.....	.....
66	Garfield avenue	36	.....	.....
67	Going street .....	.....	.....	552
68	Grand avenue .....	.....	.....	.....
69	Goldsmith street .....	.....	.....	.....
70	Goldsmith street .....	.....	.....	.....
71	Grand avenue .....	.....	.....	.....
72	Grant street, East.....	.....	.....	.....
73	Glenn avenue .....	.....	.....	92
74	Glisan street, East.....	.....	.....	288
75	Gantenbein avenue .....	.....	.....	234
76	Grand avenue .....	.....	.....	.....
77	Grand avenue .....	.....	.....	.....
78	Grand avenue .....	.....	.....	.....
79	Grand avenue .....	.....	.....	.....
80	Gladstone avenue	774	49	.....
Total		1,900	49	3,352

STREET WORK DONE DURING 1908—Continued

[illegible]

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Square Yards.		
		Stone Blk. Pavm't.		Bitl'tic.
		New.	Redr'sed and Relaid.	
41	Ellsworth street	.....	.....	.....
42	Everett street, East	.....	.....	.....
43	Eighteenth street, East	.....	.....	.....
44	Eighth street, East	.....	.....	.....
45	Forty-first street, East (w. 1/2)	.....	.....	.....
46	Fern street	.....	.....	.....
47	Fargo street	.....	.....	.....
48	Francis avenue	.....	.....	.....
49	Fifteenth street, East	.....	.....	.....
50	Forty-ninth street, East	.....	.....	.....
51	Fifty-second street, East	.....	.....	.....
52	Fifty-first street, East	.....	.....	.....
53	Frankfort street	.....	.....	.....
54	Franklin Court	.....	.....	.....
55	Fiftieth street, East	.....	.....	.....
56	Flint street	.....	.....	.....
57	Forty-fourth street, East	.....	.....	.....
58	Flanders street	.....	.....	.....
59	Fremont street	.....	.....	.....
60	Fremont street	.....	.....	.....
61	Fargo street	.....	.....	1,096.6
62	Fargo street	.....	.....	.....
63	Forty-fourth street, East	.....	.....	.....
64	Flanders street, East	.....	.....	.....
65	Green avenue	.....	.....	2,009.6
66	Garfield avenue	.....	.....	.....
67	Going street	.....	.....	.....
68	Grand avenue	.....	.....	.....
69	Goldsmith street	.....	.....	.....
70	Goldsmith street	.....	.....	.....
71	Grand avenue	.....	.....	.....
72	Grant street, East	.....	.....	.....
73	Glenn avenue	.....	.....	.....
74	Glisan street, East	.....	.....	.....
75	Gantenbein avenue	.....	.....	.....
76	Grand avenue	.....	.....	.....
77	Grand avenue	2,068.3	.....	7,153.4
78	Grand avenue	124.6	.....	508.4
79	Grand avenue	965.8	.....	4,342.6
80	Gladstone avenue	.....	.....	.....
Total		3,158.7	.....	15,110.6

STREET WORK DONE DURING 1908—Continued.

Square Yards.				Lineal Feet, Full Width Improvement.	Actual Cost. of Improvem't.
Wood Block.	Asphalt.	Concrete.	Vitrified Brick.		
.....				260	\$ 82.58
.....				200	691.12
.....				600	3,410.45
.....				275	83.77
.....				480	1,057.50
.....				1,125	1,607.47
.....				940	4,621.83
.....				2,600	17,842.00
.....				1,500	3,851.53
.....				750	1,948.91
.....				755	1,923.56
.....				750	2,028.76
.....				1,750	11,864.55
.....				226	599.94
.....				750	1,984.99
.....				700	3,398.96
.....				770	1,287.11
.....	7,173.5	.....	860.1	2,000	21,876.83
.....				1,580	8,926.92
.....				1,510	5,044.55
.....				250	3,216.16
.....				320	1,046.45
.....				665	956.74
.....				260	1,836.76
.....				800	6,077.48
.....				2,370	5,787.56
.....				1,700	6,572.66
.....				3,425	2,887.66
.....				75	360.50
.....				298	1,415.57
.....				400	753.78
.....				710	2,508.73
.....				760	3,338.59
.....				1,350	4,621.27
.....				1,025	4,433.32
.....				700	1,031.99
.....		1,519.9	.....	1,565	26,427.68
.....		124.6	.....	95	1,978.41
.....		1,321	.....	985	14,991.83
.....				5,225	18,384.11
.....	7,173.5	2,965.5	860.1	42,499	\$202,760.58

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Date of Estimate.	No. of Ord.
81	Haven street	February 24, 1908	17739
82	Harding street	July 22, 1907	16942
83	Hood street	January 10, 1908	17630
84	Hannaford street	December 16, 1907	17463
85	Haven street	January 31, 1908	17570
86	Hamilton avenue	September 10, 1907	17080
87	Hereford street	December 16, 1907	17462
88	Hoyt street	February 27, 1907	16399
89	Ivon street	December 16, 1907	17466
90	Ivy street	July 6, 1906	15651
91	Jordan street	December 16, 1907	17552
92	Johnson street	February 24, 1908	17741
93	Jefferson street	June 17, 1907	16896
94	Johnson street	March 25, 1908	17740
95	Kelly street	January 31, 1908	17567
96	Knott street	October 3, 1906	15946
97	Killingsworth avenue	May 1, 1907	16596
98	Kelly street	February 24, 1908	17742
99	Knott street	July 23, 1907	16941
100	Knott street	July 11, 1906	15656
101	Larrabee street	December 16, 1907	17629
102	Loring street	August 5, 1907	16944
103	Laurel street	September 30, 1907	17475
104	Lewis street	May 17, 1907	16827
105	Montana avenue	April 9, 1908	17880
106	Marion avenue	September 17, 1906	15870
107	Madison street	May 1, 1907	16649
108	Maegly street	May 24, 1907	16945
109	Maegly street	December 16, 1907	17464
110	Mabel street	March 7, 1908	17744
111	Madison street, East	December 16, 1907	17468
112	Madison street, East	July 22, 1907	16956
113	Mallory avenue	August 5, 1907	16954
114	Nineteenth street, East	January 31, 1908	17571
115	Nineteenth street, East	April 24, 1907	16589
116	Nineteenth street, East	August 31, 1907	17074
117	Ninth street, East	May 16, 1907	16943
118	Ninth street, East	March 21, 1908	17758
119	Ninth street, East	March 7, 1908	17610
120	Nehalem avenue	February 27, 1907	16440

STREET WORK DONE DURING 1908—Continued

Extent of Improvement.
From southerly line of Princeton st. to southerly line Dawson st.
From southwesterly line Goldsmith st. to northeasterly line River st.
From south line Grover st. to north line Lane st.
From north line of Ellsworth st. to south line Division st.
From northerly line Dawson st. to southerly line Rutledge st., extd. e.
From west line of Corbett st. to center line of Ohio st.
From northerly line of Dawson st. to westerly line Hodge st.
From west line N. Fourth st. to east line of N. Third st.
From west line Habersham ave. to west line of Richmond.
From east line Williams ave. to west line of Union ave.
From north line of Dawson st. to south line Butler st.
From west line of Fifteenth st. to east line of Twenty-fourth st.
From west line Front st. to east line of Chapman st., in Carter's add.
From west line Sixth st. to east curb line of Seventh st.
From east line of E. Twenty-sixth st. to west line E. Thirty-seventh st.
From west line Vancouver ave. to east line Delay st.
From west line Union ave. to east line Patton ave.
From east line of E. Thirty-seventh st. to east line Waverleigh Hts.
From west line of Union ave. to east line of Williams ave.
From east line of Union ave. to east line of Albina.
From se. line lot 16, D. Shaver's ad. extd. w. to n. l. W. Irvings' D.L.C.
From northwesterly line Albina ave. to southeasterly line Randolph st.
From w. l. Chapman st. to line 25 ft. e. and par. e. l. Mtgmy. st. drive.
From northeasterly line River st. to southwesterly line Goldsmith st.
From south line Killingsworth ave. to north line Prescott st.
From east line E. Ninth st. to west line E. Nineteenth st.
From 208.7 ft. west of west line of Stout st. to west line Stout st.
From east line of Williams ave. to west line Cleveland ave.
From east line of Williams ave. to west line Union ave.
From south line of Hamilton ave. to north line Seymour ave.
From east line of E. Thirty-fourth st. to west line E. Thirty-seventh st.
From center line of E. Twenty-fourth st. to west line E. Thirtieth st.
From south line Going st. to north line Alberta st.
From north line of Brazee st. to south line of Knott st.
From south line Brazee st. to north line of Tillamook st.
From north line of E. Stark st. to south line E. Oak st.
From a point 77 ft. south of s. l. Millers ave. to s. l. of town Sellwood
From north line Failing st. to south line Shaver st.
From 144.5 ft. s. of s. l. of Knott st. to 255.5 ft. n. of n. l. Siskiyou st.
From east line E. Ninth st. to west line E. Nineteenth st.

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Cubic Yards.			
		Exc.	Emb.	Gravel.	Macadam.
81	Haven street	3,051	187	.....	.....
82	Harding street	1,426	330	.....	719.5
83	Hood street	1,554	1,418	.....	1,370.8
84	Hannafor street	3,879	2,433	.....	.....
85	Haven street	4,760	38	.....	.....
86	Hamilton avenue	974	425	.....	1,375.8
87	Hereford street	1,590	14	.....	.....
88	Hoyt street	174	322	.....	.....
89	Ivon street	7	3,572	.....	.....
90	Ivy street	900	.....	.....	1,184.7
91	Jordan street	2,977	202	.....	.....
92	Johnson street	2,434	.....	.....	.....
93	Jefferson street	3,839	3	.....	.....
94	Johnson street .....	.....	.....	.....	.....
95	Kelly street	18,361	255	.....	.....
96	Knott street	468	31	.....	637
97	Killingsworth avenue	5,867	172	.....	.....
98	Kelly street	7,652	8,489	.....	.....
99	Knott street	698	35	.....	.....
100	Knott street	767	.....	.....	788.4
101	Larrabee street	56	.....	.....	56.6
102	Loring street	636	1,180	.....	1,063.6
103	Laurel street	903	57	.....	.....
104	Lewis street	367	681	.....	751.8
105	Montana avenue	5,880	3,674	.....	.....
106	Marion avenue	5,609	.....	1,127.8	.....
107	Madison street	594	1,965	.....	.....
108	Maegly street	379	.....	.....	.....
109	Maegly street	4,588	22	1,213.2	.....
110	Mabel street	1,418	44	.....	396.3
111	Madison street, East	466	598	.....	.....
112	Madison street, East	5,554	81	.....	1,970.4
113	Mallory avenue	5,749	10	.....	.....
114	Nineteenth street, East	2,738	154	.....	.....
115	Nineteenth street, East	5,346	268	.....	.....
116	Nineteenth street, East	1,142	259	.....	147.6
117	Ninth street, East	2,173	147	.....	.....
118	Ninth street, East	3,034	2	.....	.....
119	Ninth street, East	5,901	2,358	.....	.....
120	Nehalem avenue .....	.....	.....	.....	.....
Total		113,911	29,426	2,341	10,464.5

STREET WORK DONE DURING 1908—Continued

Sq. ft. Artificial Stone Sidewalk.	Lineal Feet.					
	Sidewalk Without Curb.		Curb.		Crosswalk.	
	Wood.	Gravel.	Art. Stone.	Wood.	Art. Stone.	Wood.
.....	2,521.97	.....	.....	2,848.94	.....	506
1,641	600	.....	509.8	600	.....	61
8,454	402	.....	1,704	202	.....	558.25
7,716	670	.....	1,274	670	.....	128
.....	4,672.14	.....	.....	5,018.64	.....	823
164	194	.....	50	584	.....	248
.....	1,995.85	.....	.....	2,038.55	.....	112
2,541	.....	.....	355	.....	.....	.....
5,096	806	.....	849.3	806	.....	.....
.....						
.....	2,525.6	.....	.....	2,580	.....	210
.....						
4,245.4	.....	.....	970.4	.....	.....	.....
6,844.9	.....	.....	908.7	.....	.....	.....
1,150	.....	.....	100	.....	.....	.....
31,084	.....	.....	5,172	.....	.....	132
2,336	.....	.....	414.45	.....	.....	16
52,779.8	.....	.....	9,019.4	.....	.....	.....
.....						
6,419	.....	.....	1,078	.....	.....	.....
.....						
.....	61	.....	13	.....	.....	.....
8,268	374	.....	1,382	398	.....	288
3,428	.....	.....	571.2	.....	.....	.....
4,914	200	.....	992	200	.....	144
.....						
.....	1,884	.....	.....	1,968	.....	288
.....						
1,950	.....	.....	433.2	.....	.....	.....
10,296	.....	.....	1,912	.....	.....	384
5,064	.....	.....	920	.....	.....	.....
8,725	.....	.....	1,466.4	.....	.....	132
12,530	.....	.....	2,052	.....	.....	602
13,224	.....	.....	2,138	.....	.....	372
6,000	.....	.....	1,000	.....	.....	.....
8,100	.....	.....	2,000	.....	.....	.....
2,160	40	.....	360	40	.....	.....
.....	3,104.1	.....	.....	3,648.6	.....	1,128
.....	815.41	.....	.....	815.41	.....	.....
18,824	.....	.....	3,156.4	.....	.....	.....
.....	1,799	.....	.....	1,889	.....	360
233,954.1	22,665.07	.....	40,801.25	24,307.14	.....	6,492.25

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Lineal Feet Gutter.		
		Box.	Open.	Stone.
81	Haven street	204	.....	.....
82	Harding street .....	.....	.....	.....
83	Hood street .....	.....	.....	97
84	Hannaford street	29.5	.....	.....
85	Haven street	360	.....	.....
86	Hamilton avenue .....	.....	.....	1,957
87	Hereford street	76	.....	.....
88	Hoyt street .....	.....	.....	.....
89	Ivon street .....	.....	.....	.....
90	Ivy street .....	.....	.....	.....
91	Jordan street	60	.....	.....
92	Johnson street .....	.....	.....	.....
93	Jefferson street .....	.....	.....	.....
94	Johnson street .....	.....	.....	400
95	Kelly street	70	.....	.....
96	Knott street .....	.....	.....	.....
97	Killingsworth avenue .....	.....	.....	.....
98	Kelly street .....	.....	.....	.....
99	Knott street .....	.....	.....	.....
100	Knott street .....	.....	.....	.....
101	Larrabee street .....	.....	.....	.....
102	Loring street .....	.....	.....	192
103	Laurel street .....	.....	.....	.....
104	Lewis street .....	.....	.....	96
105	Montana avenue .....	.....	.....	.....
106	Marion avenue	36	.....	144
107	Madison street .....	.....	.....	.....
108	Maegly street .....	.....	.....	.....
109	Maegly street .....	.....	.....	448
110	Mabel street .....	.....	.....	.....
111	Madison street, East .....	.....	.....	.....
112	Madison street, East .....	.....	.....	512
113	Mallory avenue .....	.....	.....	.....
114	Nineteenth street, East .....	.....	.....	.....
115	Nineteenth street, East .....	.....	.....	.....
116	Nineteenth street, East .....	.....	.....	.....
117	Ninth street, East	389	.....	.....
118	Ninth street, East .....	.....	.....	.....
119	Ninth street, East .....	.....	.....	3,175.6
120	Nehalem avenue	144	.....	.....
Total		1,368.5	.....	7,021.6

STREET WORK DONE DURING 1908—Continued

Lineal Feet.						Number of Inlets.
Plank Roadway.	Stone Blk. Hdr. D'bl. Row.	Tile, 3-in. dia.	Vitrified Pipe, 6-in. dia.	Iron Pipe.	Lumber, B. M.	
.....						
.....	.....	.....	28	.....	7,235	2
.....	.....	.....	40	.....	.....	1
.....						
.....						
.....	.....	.....	232	.....	.....	7
.....						
.....	.....	.....	124	.....	.....	3
.....						
.....						
.....	577.2	6,936	260	12	.....	9
.....	992.4	8,706.55	18	.....	.....	1
.....						
.....						
.....						
.....	1,462.6	9,838.5	.....	.....	.....	.....
.....						
.....	91.3	2,462	20	.....	.....	1
.....						
.....						
.....						
.....	.....	.....	264	.....	.....	9
.....	130	1,907	80	.....	.....	2
.....	.....	.....	82	.....	17,234.9	2
.....						
.....						
.....	.....	.....	56	.....	.....	4
.....						
.....						
.....						
.....	.....	2,000	.....	.....	.....	.....
.....						
.....	3,309.5	31,850.05	1,338	12	24,469.9	48
.....						
.....	56	.....	134	.....	.....	7
.....						
.....	3,309.5	31,850.05	1,338	12	24,469.9	48

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Square Yards.		
		Stone Blk. Pavm't.		Bitl'tic.
		New.	Redr'sed and Relaid.	
81	Haven street			
82	Harding street			
83	Hood street			
84	Hannaford street			
85	Haven street			
86	Hamilton avenue			
87	Hereford street			
88	Hoyt street	1,433.4		
89	Ivon street			
90	Ivy street			
91	Jordan street			
92	Johnson street	236.4		14,858.4
93	Jefferson street	4,137.8		14,924.1
94	Johnson street			
95	Kelly street			
96	Knott street			
97	Killingsworth avenue	6,592.1		16,910.8
98	Kelly street			
99	Knott street			4,300.8
100	Knott street			
101	Larrabee street			
102	Loring street			
103	Laurel street			2,752.9
104	Lewis street			
105	Montana avenue			
106	Marion avenue			
107	Madison street			
108	Maegly street			
109	Maegly street			
110	Mabel street			
111	Madison street, East			
112	Madison street, East			
113	Mallory avenue			
114	Nineteenth street, East			
115	Nineteenth street, East			3,112
116	Nineteenth street, East			
117	Ninth street, East			
118	Ninth street, East			
118	Ninth street, East			
120	Nehalem avenue			
Total		12,399.7		56,859

STREET WORK DONE DURING 1908—Continued

Square Yards.				Lineal Feet Full Width Improvem't.	Actual Cost of Improvem't.
Wood Block.	Asphalt.	Concrete.	Hassam.		
				1,470	\$ 3,004.50
				630	3,416.82
				1,500	6,971.32
				970	2,729.91
				2,570	4,625.60
				1,120	6,483.00
				1,080	1,946.88
		1,433.4		325	5,970.61
				880	2,212.00
				1,190	3,706.44
				1,300	2,190.79
		236.4		3,570	39,730.35
		4,622.3		4,520	55,231.85
	1,020.4			200	1,843.37
				2,680	9,340.41
				2,010	2,220.69
		4,754.7		5,220	75,223.00
				1,160	3,123.53
				1,250	11,000.76
				700	2,389.30
				80	278.24
				900	5,659.96
				1,080	9,287.43
				720	3,789.43
				2,440	1,910.33
				2,480	5,720.35
				209	889.07
				210	539.02
				1,275	6,906.29
				460	2,551.28
				850	1,826.36
				1,660	10,571.25
				1,020	5,258.69
	1,556			500	5,230.46
				1,000	11,342.76
				200	1,146.80
				2,720	3,698.73
				400	1,513.03
	4,629.4			1,600	17,318.00
				2,420	1,373.82
	7,205.8	11,046.8		56,569	\$340,172.43

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Date of Estimate	No. of Ord.
121	Nelson street	February 23, 1907	16389
122	Northrup street	August 13, 1907	16961
123	Northrup street	March 21, 1908	17752
124	Newton street	May 20, 1908	18047
125	Olin street	March 6, 1908	17821
126	Oak street	September 18, 1907	17142
127	Oak street	December 16, 1907	17476
128	Oak street, East	August 15, 1906	15741
129	Page street	July 22, 1907	16963
130	Park street	June 14, 1906	15602
131	Patton avenue (w. 1/2)	August 31, 1907	17210
132	Prescott street	May 17, 1907	16833
133	Rockwell street	March 26, 1908	17819
134	Rhine street	July 22, 1907	16899
135	Robsart street	May 20, 1908	18049
136	Russell street	February 11, 1908	17631
137	Ross street	September 7, 1907	17073
138	Ross street	December 16, 1907	17471
139	Rodney avenue	September 5, 1906	15794
140	Sixteenth street, East	March 21, 1908	17756
141	Seventeenth street, East	March 6, 1908	17684
142	Sixth street, East	October 6, 1906	15938
143	Shaver street	October 19, 1906	16022
144	Stanton street	September 14, 1906	15868
145	Sixty-seventh street, East	April 9, 1908	17872
146	Sixty-eighth street, East	April 9, 1908	17873
147	Seventy-eighth street, East	April 9, 1908	17922
148	Stark street, East	April 27, 1906	15908
149	Stark street, East	June 12, 1906	15600
150	Stark street	August 9, 1907	16951
151	Sixth street	December 16, 1907	17473
152	Stark street	December 16, 1907	17479
153	Sixth street	March 25, 1908	17759
154	Spokane avenue	May 16, 1907	16693
155	Sixth street, East	December 16, 1907	17572
156	Sixth street, East	August 5, 1907	16946
157	Stark street, East	July 28, 1906	15684
158	Seventeenth street, East	December 16, 1907	17560
159	Stark street	April 9, 1908	17879
160	Salmon street, East	June 18, 1908	18098

STREET WORK DONE DURING 1908—Continued

Extent of Improvement.
From west line E. Twenty-eighth st. to westerly line Logan's add.
From west line Twenty-fourth st. to east line Twenty-fifth st.
From west line of Twenty-fifth st. to west line of Twenty-sixth st.
From north line of Vaughn st. to north termination of Newton st.
From west line Newman st. to n. w. line Willamette blvd.
From west line of Second st. to east line of Third st.
From west line of Fourth st. to east line of Sixth st.
From e. l. E. Water st. to line 56 ft. e. of and par. with e. l. E. 2d st.
From east line Albina ave. to west line of Ross st. extd. southerly.
From south line Washington st. to north line Salmon st.
From north line Killingsworth ave. to south line of Jarrett st.
From west curb line Mississippi ave. to east line of Maryland ave.
From northwest line of Madrona st. to n. l. blk. 1, Woodlawn extd. e.
From easterly line Milwaukie st. to easterly line Feurer's add.
From east line E. Fortieth st. to east line Waverleigh Hts.
From east line Delay st. to east line Goldsmith st.
From south line Russell st. to north line Page st.
From north line Multnomah st. to south line Dixon st.
From north line Fremont st. to center line of Beech st.
From north line Tillamook st. to south line Knott st.
From north line Tillamook st. to south line Knott st.
From north line Division st. to north line of Howarth st.
From west line of Union ave. to east line Williams ave.
From west line Williams ave. to east line of Delay st.
From north line E. Stark st. to south line E. Pine st.
From north line E. Yamhill st. to south line E. Pine st.
From north line Base Line road to south line E. Glisan st.
From east line E. Seventh st. to east curb line of E. Water st.
From west line of E. Twelfth st. to east line of E. Twentieth st.
From west line Seventh st. to southerly line Burnside st.
From south line Morrison st. to north line of Jefferson st.
From west line Fourth st. to east line Seventh st.
From center line Irving st. to north line Johnson st.
From east line Grand ave. to west line of E. Nineteenth st.
From north line Fremont st. to south line Beech st.
From north line Mason st. to south line of Alberta st.
From east line E. Ninth st. to west line of E. Twelfth st.
From north line Belmont st. to south line E. Morrison st.
From east line Fourth st. to west line Third st.
From east line of E. Twelfth st. to west line of E. Fifteenth st.

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Cubic Yards.			
		Exc.	Emb.	Gravel.	Macadam.
121	Nelson street	2,420	293	810.4	
122	Northrup street	343	53		
123	Northrup street	619	20		
124	Newton street	80	1,161		
125	Olin street	8,113	924		
126	Oak street	101			
127	Oak street				
128	Oak street, East		25,784		557.2
129	Page street	458	4,211		517.4
130	Park street	525			
131	Patton avenue (w. 1/2)				
132	Prescott street	4,323	898		
133	Rockwell street	1,482	432		
134	Rhine street	7,600	399	2,100	
135	Robsart street	2,072	676		
136	Russell street	316	143		
137	Ross street	1,121	1,955		
138	Ross street	563			669.8
139	Rodney avenue	514	6		440.8
140	Sixteenth street, East	352	60		
141	Seventeenth street, East	472	302		
142	Sixth street, East	5,645	1,582		1,436.9
143	Shaver street	610	46	1,161	
144	Stanton street	564	3		661.1
145	Sixty-seventh street, East	2,096	13		
146	Sixty-eighth street, East	7,180	642		
147	Seventy-eighth street, East				
148	Stark street, East		95,274		572.2
149	Stark street, East	840	243		1,220.4
150	Stark street	1,525	324		
151	Sixth street	2,591			
152	Stark street	611			
153	Sixth street				
154	Spokane avenue	1,212	83		
155	Sixth street, East	795	761	365	
156	Sixth street, East	5,666	402		
157	Stark street, East	18	13,445		779.9
158	Seventeenth street, East	885			172
159	Stark street	96			
160	Salmon street, East	700			842
Total		62,508	150,135	4,436.4	7,869.7

STREET WORK DONE DURING 1908—Continued

Sq. ft. Artificial Stone Sidewalk.	Lineal Feet.					
	Sidewalk Without Curb.		Curb.		Crosswalk.	
	Wood.	Gravel.	Art. Stone.	Wood.	Art. Stone.	Wood.
8,164			1,345.9			264
3,510			585			
4,536			953			
5,903			952.2			
	5,312			5,795.7		854
	984			1,068		192.5
2,677	78.8		444	78.8		71.6
2,631			394			
4,728			736			48
10,260	429.8		2,006	447.8		620.6
		1,637.1		1,637		
20,206.2			3,386.3			864
5,222			489.78			
5,100	50		850	50		
3,330			560			36
	100			100		
12,628			3,110.8			
12,768			2,634.8			
11,290	236		1,916.2	272		595
	1,387.6			1,507.6		288
3,897			832.8			72
3,954			659			
15,302	204		2,565	180		120
15,268			2,552			576
	864			948		234
5,110	43.5		855	79.5		600
4,121.2			632			
900			250			
	1,970			4,273		14
	790			790		
	3,575.2			3,625.2		120
216	747		36	807		288
2,400			400			
						288
164,121.4	16,771.9	1,637.1	29,145.78	21,659.6		6,145.7

STREET WORK DONE DURING 1909—Continued

Number.	Name of Street.	Square Yards.		
		Stone Blk Pavm't.		Bitl'tic.
		New.	Redr'sd and Relaid.	
121	Nelson street			
122	Northrup street	528.8		1,208.6
123	Northrup street			1,724.2
124	Newton street			1,383.8
125	Olin street			
126	Oak street			
127	Oak street			
128	Oak street, East.....			
129	Page street			
130	Park street			3,158.8
131	Patton avenue (w. ½).....			
132	Prescott street			
133	Rockwell street			
134	Rhine street			
135	Robsart street			
136	Russell street	1,399.2		
137	Ross street			
138	Ross street			
139	Rodney avenue			
140	Sixteenth street, East.....			
141	Seventeenth street, East.....			
142	Sixth street, East.....			
143	Shaver street			
144	Stanton street			
145	Sixty-seventh street, East.....			
146	Sixty-eighth street, East.....			
147	Seventy-eighth street, East.....			
148	Stark street, East			
149	Stark street, East			
150	Stark street			4,706.1
151	Sixth street			
152	Stark street			
153	Sixth street			
154	Spokane avenue			
155	Sixth street, East.....			
156	Sixth street, East.....			
157	Stark street, East.....			
158	Seventeenth street, East.....			
159	Stark street			
160	Salmon street, East.....			
Total		1,928		12,181.5

STREET WORK DONE DURING 1908—Continued

Square Yards.				Lineal Feet, Full Width Improvement.	Actual Cost of Improvement.
Wood Block.	Asphalt.	Concrete.	Vit'fied Brick.		
.....	.....	.....	.....	720	\$ 4,639.70
.....	.....	590.9	.....	450	5,553.43
.....	.....	.....	.....	510	5,539.99
.....	.....	.....	.....	540	4,691.50
.....	693.4	.....	86.6	2,940	5,107.23
.....	1,784	.....	202	200	2,130.62
.....	.....	.....	.....	460	2,884.28
.....	.....	.....	.....	576	11,759.89
.....	.....	.....	.....	460	3,568.30
.....	.....	.....	.....	1,060	7,765.59
.....	.....	.....	.....	360	930.00
.....	.....	.....	.....	1,392	4,091.76
.....	.....	.....	.....	800	1,281.46
.....	.....	.....	.....	1,790	12,327.09
.....	.....	.....	.....	560	600.36
.....	.....	1,399.2	.....	310	6,607.40
.....	.....	.....	.....	450	1,623.47
.....	.....	.....	.....	1,460	257.17
.....	.....	.....	.....	400	1,507.84
.....	4,964	.....	.....	1,500	13,028.68
.....	6,386.4	.....	.....	1,560	15,806.21
.....	.....	.....	.....	1,340	8,937.16
.....	.....	.....	.....	1,250	5,535.51
.....	.....	.....	.....	2,580	2,806.61
.....	.....	.....	.....	340	1,411.49
.....	.....	.....	.....	1,320	5,707.46
.....	.....	.....	.....	2,577	3,262.80
.....	.....	.....	.....	520	35,462.62
.....	.....	.....	.....	1,220	6,595.04
.....	.....	.....	.....	1,500	13,321.72
.....	7,888.2	.....	593.9	1,440	23,417.95
.....	1,438.4	524.6	815.4	760	6,891.11
.....	1,360.6	.....	.....	290	2,183.48
.....	.....	.....	.....	3,170	1,948.67
.....	.....	.....	.....	400	1,400.53
.....	.....	.....	.....	1,950	4,045.45
.....	.....	.....	.....	720	8,028.90
.....	.....	.....	.....	200	1,076.99
.....	422	.....	88.8	200	1,403.53
.....	.....	.....	.....	720	2,703.41
.....	24,937	2,514.7	1,786.7	40,995	\$250,156.40

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Date of Estimate.	No. of Ord.
161	Sixth street, East.....	April 9, 1908	17882
162	Tabor avenue	May 7, 1907	16645
163	Tabor avenue	August 31, 1907	17069
164	Tabor avenue	May 17, 1907	16825
165	Tacoma avenue	May 24, 1907	16949
166	Taggart street	December 16, 1907	17457
167	Taylor street, East.....	September 6, 1907	17075
168	Thompson street	March 21, 1908	17748
169	Tibbetts street	February 24, 1908	17750
170	Tibbetts street	January 31, 1908	17568
171	Third street	October 8, 1907	17208
172	Third street, East.....	December 16, 1907	17550
173	Third street	April 24, 1907	16655
174	Tenth street, East.....	December 16, 1907	17467
175	Tenth street	December 16, 1907	17478
176	Tenth street, East.....	March 7, 1908	17611
177	Twelfth street	June 19, 1908	18097
178	Twelfth street	April 13, 1908	17878
179	Thirteenth street, East.....	February 1, 1907	16257
180	Thirteenth street, East.....	October 19, 1906	16019
181	Twentieth street, East.....	September 30, 1907	17214
182	Twentieth street, East.....	April 24, 1907	16591
183	Twentieth street, East.....	March 6, 1908	17685
184	Twenty-first street, East.....	May 16, 1907	16939
185	Twenty-first street	September 30, 1907	17217
186	Twenty-first street, East.....	April 24, 1907	16588
187	Twenty-first street, East.....	March 21, 1908	17754
188	Twenty-second street, East.....	February 20, 1907	16504
189	Twenty-second street, East.....	February 10, 1908	17564
190	Twenty-third street, East.....	January 31, 1908	17558
191	Twenty-sixth street	May 20, 1908	18046
192	Twenty-sixth street, East.....	September 30, 1907	17219
193	Twenty-seventh street, East.....	April 9, 1908	17876
194	Twenty-seventh street, East.....	December 16, 1907	17458
195	Twenty-eighth street, East.....	March 28, 1907	16656
196	Thirtieth street, East.....	March 10, 1908	17683
197	Thirty-second street, East.....	June 29, 1907	16838
198	Thirty-seventh street, East.....	July 25, 1906	15686
199	Thirty-seventh street, East.....	January 31, 1908	17566
200	Vancouver avenue	October 19, 1906	16024

STREET WORK DONE DURING 1908—Continued

Extent of Improvement.
From north line Ainsworth ave. to south line of Woodlawn.
From north line of Clinton st. to south line of Division st.
From center line of Clinton st. to north line of Clinton st.
From center line of Clinton st. to south line of Ellsworth st.
From east line E. Sixth st. to west line of E. Twenty-third st.
From west line of Habersham ave. to west line of Richmond.
From west line of E. Thirty-fourth st. to west line of Myrtle ave.
From east line of E. Seventh st. to east line of E. Fourteenth st.
From east line of E. Thirty-seventh st. to east line of Waverleigh Hts.
From east line E. Twenty-sixth st. to west line E. Thirty-seventh st.
From north line of Main st. to north line of Hall st.
From south line of E. Burnside st. to north line of E. Oak st.
From north curb line Glisan st. to south curb line of Hoyt st.
From north line of Going st. to south line of Alberta st.
From north line of Yamhill st. to south line Burnside st.
From 144.5 ft. s. of s. l. of Knott st. to 255.5 ft. n. of n. l. Siskiyou st.
From south line of Washington st. to north line of Yamhill st.
From north line of Washington st. to south line Hoyt st.
From north line Prescott st. to south line Alberta st.
From north line of Marion ave. to south line of Leo ave.
From south line E. Everett st. to south line of Sandy road.
From south line of Brazee st. to north line of Tillamook st.
From north line of Brazee st. to south line of Knott st.
From south line of Bush st. to southeast line of Smith's add.
From north line of Spring st. to south line of Clifton st.
From north line of Tillamook st. to south line of Thompson st.
From south line of Knott st. to north line of Thompson st.
From south line of Holladay ave. to the northerly line of Sandy road.
From north line of Tillamook st. to south line of Knott st.
From north line of Thompson st. to south line of Knott st.
From south line of Marshall st. to south line of Northrup st.
From south line of Holladay ave. to north line of Sandy road.
From south line Clinton st. to north line tract "S," E. Portland Hts.
From north line of E. Stark st. to south line of E. Ankeny st.
From south curb line Knott st. to north line of Broadway.
From north line of Alberta st. to south line of North st.
From south line of Brooklyn st. to north line of Powell Valley road.
From south line E. Stark st. to north line of Hawthorne ave.
From north line of Franklin st. to the south line of Division st.
From south line of Fremont st. extd. west to south line of Alberta st.

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Cubic Yards.			
		Exc.	Emb.	Gravel.	Macadam.
161	Sixth street, East	5,354	1,321	.....	.....
162	Tabor avenue	500	1,614	419.6	.....
163	Tabor avenue	13	109	41.2	.....
164	Tabor avenue	1,844	64	531.4	.....
165	Tacoma avenue .....	.....	.....	.....	.....
166	Taggart street	1,045	237	.....	.....
167	Taylor street, East.....	9,716	293	.....	3,765.9
168	Thompson street	425	343	.....	.....
169	Tibbetts street	5,192	17,372	.....	.....
170	Tibbetts street	13,447	306	.....	.....
171	Third street	5,075	.....	.....	.....
172	Third street, East.....	601	48	.....	.....
173	Third street	371	15	.....	.....
174	Tenth street, East.....	2,570	.....	.....	.....
175	Tenth street	1,124	.....	.....	.....
176	Tenth street, East.....	5,630	575	.....	.....
177	Twelfth street	519	9	.....	.....
178	Twelfth street	1,939	316	.....	.....
179	Thirteenth street, East.....	3,187	37	.....	.....
180	Thirteenth street, East.....	3,310	147	.....	3,159.7
181	Twentieth street, East.....	331	204	411.9	.....
182	Twentieth street, East.....	7,783	60	.....	.....
183	Twentieth street, East.....	791	2,334	.....	.....
184	Twenty-first street, East.....	606	5	199.9	.....
185	Twenty-first street	593	160	.....	.....
186	Twenty-first street, East.....	385	99	.....	.....
187	Twenty-first street, East.....	7,259	4,527	.....	.....
188	Twenty-second street, East....	4,572	413	.....	.....
189	Twenty-second street, East....	10,280	1	.....	.....
190	Twenty-third street, East.....	10,892	15	.....	.....
191	Twenty-sixth street,	1,581	79	.....	.....
192	Twenty-sixth street, East.....	4,141	69	.....	.....
193	Twenty-seventh street, East....	3,297	1,897	.....	.....
194	Twenty-seventh street, East....	3,954	852	822.6	.....
195	Twenty-eighth street, East.....	12,332	419	2,310.4	.....
196	Thirtieth street, East.....	9,829	2,124	.....	.....
197	Thirty-second street, East.....	11,755	12,054	.....	.....
198	Thirty-seventh street, East.....	2,074	.....	.....	2,210.8
199	Thirty-seventh street, East.....	7,657	3,601	.....	.....
200	Vancouver avenue	13,590	2,459	4,573.5	.....
Total		175,564	54,178	9,310.5	9,136.4

STREET WORK DONE DURING 1908—Continued

Sq. ft. Artificial Stone Sidewalk.	Lineal Feet.					
	Sidewalk Without Curb.		Curb.		Crosswalk.	
	Wood.	Gravel.	Art. Stone.	Wood.	Art. Stone.	Wood.
.....						
2,821	438	.....	459.6	462	.....	112
.....	24	.....	.....	56	.....	64
6,628	.....	.....	1,076	.....	.....	288
.....	3,852	.....	.....	5,743	.....	903
10,524	.....	.....	1,754	.....	.....	.....
24,748	2,003.61	.....	4,154.9	2,085.61	.....	982.2
10,283	.....	.....	1,794	.....	.....	.....
.....						
31,080	.....	.....	5,172	.....	.....	132
2,565	.....	.....	376	.....	.....	.....
2,656	.....	.....	444	.....	.....	.....
1,150	.....	.....	100	.....	.....	.....
.....	1,529.6	.....	.....	1,633.6	.....	174
.....	.....	.....	200	.....	.....	.....
18,824	.....	.....	3,156.4	.....	.....	.....
.....	.....	.....	161	.....	.....	.....
2,307	100	.....	638	.....	.....	.....
.....	2,394.05	.....	.....	2,511.55	.....	331
.....	2,004.5	.....	.....	2,544.5	.....	1,512
2,887	.....	.....	479.6	.....	.....	216
9,900	.....	.....	2,000	.....	.....	.....
2,400	600	.....	400	.....	.....	.....
3,961	.....	.....	720	.....	.....	.....
2,373	.....	.....	434.9	.....	.....	.....
1,800	.....	.....	300	.....	.....	.....
7,200	800	.....	1,200	.....	.....	.....
13,418	.....	.....	2,238.2	.....	.....	432
13,748	.....	.....	2,294.8	.....	.....	.....
12,000	.....	.....	2,000	.....	.....	.....
3,120	.....	.....	508	.....	.....	.....
6,444	.....	.....	1,070	.....	.....	216
.....						
7,882	350	.....	1,367.6	350	.....	148
28,772.8	.....	.....	4,869.3	.....	.....	288.4
45,494	.....	.....	7,660	.....	.....	959
12,614	720	.....	2,074.9	768	.....	690
.....	981.06	.....	.....	1,017.06	.....	768
21,562	358	.....	3,550	382	.....	660
.....	7,176.2	.....	.....	7,539.2	.....	1,040.2
309,161.8	23,331.02	.....	52,653.2	25,092.52	.....	17,855.6

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Square Yards.		
		Stone Blk. Pavm't.		Bit'l'tic.
		New	Redr'sed and Relaid.	
161	Sixth street, East.....			
162	Tabor avenue			
163	Tabor avenue			
164	Tabor avenue			
165	Tacoma avenue			
166	Taggart street			
167	Taylor street, East.....			
168	Thompson street			6,814
169	Tibbetts street			
170	Tibbetts street			
171	Third street	3,001.6		
172	Third street, East			4,166
173	Third street	1,072.5		
174	Tenth street, East.....			
175	Tenth street			
176	Tenth street, East.....			
177	Twelfth street			3,302.4
178	Twelfth street	2,519.9		4,929.7
179	Thirteenth street, East.....			
180	Thirteenth street, East.....			
181	Twentieth street, East.....			
182	Twentieth street, East.....			3,112
183	Twentieth street, East.....			
184	Twenty-first street, East.....			
185	Twenty-first street			3,238
186	Twenty-first street, East.....			2,000
187	Twenty-first street, East.....			
188	Twenty-second street, East.....			
189	Twenty-second street, East.....	1,063.6		
190	Twenty-third street, East.....			
191	Twenty-sixth street			1,082
192	Twenty-sixth street, East.....			
193	Twenty-seventh street, East.....			
194	Twenty-seventh street, East.....			
195	Twenty-eighth street, East.....			
196	Thirtieth street, East.....			
197	Thirty-second street, East.....			
198	Thirty-seventh street, East.....			
199	Thirty-seventh street, East.....			
200	Vancouver avenue			
Total		7,657.6		28,644.1

STREET WORK DONE DURING 1908—Continued.

Square Yards.				Lineal Feet Full Width Improvement.	Actual Cost. of Improvement.
Asphalt.	Concrete.	Hassam.	Vitrified Brick.		
				1,220	\$ 1,504.09
				460	2,447.39
				30	187.60
				550	3,564.01
				4,240	3,239.86
				890	2,149.18
				3,320	21,503.13
				1,820	18,520.69
				1,170	4,385.26
				2,660	8,260.93
	9,641.2	2,035.6	992.3	2,220	40,969.15
				980	10,743.86
		1,072.5		224	4,626.30
				930	1,728.23
	5,108.5		482.4	1,110	14,835.90
	4,629.4			1,600	16,817.60
				600	8,256.88
		2,519.9		1,720	24,538.50
				1,270	2,815.72
				3,120	12,948.67
				350	1,967.79
				1,000	12,632.24
	622.4			500	2,373.73
				350	1,479.41
				980	10,289.79
				500	4,965.15
	2,400			1,000	12,702.07
				1,140	4,689.24
	5,300.2	1,063.6		1,560	21,800.10
	3,112			1,000	12,334.51
				260	4,121.85
				550	2,189.88
				380	856.84
				980	4,604.35
				2,460	16,271.67
				3,900	12,051.00
				1,500	7,402.85
				2,390	8,805.74
				2,010	6,187.26
				3,890	22,115.80
30,813.7	6,691.6		1,474.7	56,834	\$373,884.27

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Date of Estimate	No. of Ord.
201	Vancouver avenue	September 6, 1907	17077
202	Vancouver avenue	August 4, 1906	15881
203	West Park street	September 21, 1908	18103
204	Winona street	July 23, 1907	16950
205	Wheeler street	September 30, 1907	17215
206	Yamhill street, East.....	June 3, 1908	18029
207	Williams avenue.....	December 16, 1907	17474
208	Elise street	March 21, 1908	17734
209	Madison street, East.....	May 8, 1908	17925
210	Franklin street	January 31, 1908	17569
211	Union avenue bridge.....	September 11, 1907	17041
212	Twenty-eighth street, East, bridge	April 3, 1907	16494
213	Twenty-eighth street, East.....	May 20, 1908	18045
214	Willis boulevard	September 21, 1906	15940
215	Knott street	February 1, 1908	17549
216	Twelfth street, East.....	October 30, 1907	17559
217	Thirty-fourth street, East.....	July 16, 1907	16901
218	Portsmouth avenue	May 15, 1908	18037
219	Morrison street, East.....	December 16, 1907	17477
220	Broadway	February 7, 1908	17562
221	Siskiyou street	March 7, 1908	17615
222	Knott street	May 2, 1908	17860
223	Eighth street, East.....	May 7, 1908	17609
224	Stanton street	March 7, 1908	17616
225	Twelfth street, East	March 7, 1908	17613
226	Eleventh street, East.....	March 7, 1908	17612
227	Ellsworth street	March 6, 1908	17735
228	Thirteenth street, East.....	July 16, 1907	16898
229	Thirteenth street, East.....	March 7, 1908	17614
230	Waverleigh Court	January 31, 1908	17565
231	Thirteenth street, East.....	March 7, 1908	17757

STREET WORK DONE DURING 1908—Continued

Extent of Improvement.
From south line of Broadway to south line of Russell st.
From northeast line of Wheeler st. to south line of Broadway.
From south line of Stark st. to north line of Yamhill st.
From northeast line of Durham ave. to south line Dekum ave.
Fr. n.l. McMillen to l. ex. bet. se. cr. bk. 10 & s. cr. bk. 9, E. Irving's ad.
From e. l. E. Thirty-ninth st. to e. l. E. Forty-second st. extd. south.
From southerly line McMillen st. to s. l. blk 59, Holladay's ad. extd. w.
From east line of Union avenue to east line of Albina.
From east line E. Forty-ninth st. to west line E. Fifty-third st.
From east line E. Twenty-sixth st. to west line E. Thirty-seventh st.
From 112 ft. south of south line E. Glisan and extd. thence south 408 ft.
From pt. 60 ft. n. of n. l. Holladay ave. to a line 558 ft. n'y therefrom.
From south line Brooklyn st. to north line Waverleigh blvd.
From west line of Newman st. to east line of Berkeley st.
From east line E. Fourteenth st. to west line E. Twenty-fourth st.
From south line Hawthorne ave. to n. l. O. & C. R. R. right of way.
From south line of Brooklyn st. to north line Powell Valley road.
From south line of Columbia blvd. to south line Monta st.
From east line Union ave. to west line E. Seventh st.
From southwest line Crosby st. to southwest line of Wheeler st.
From east line of E. Seventh st. to west line of E. Fourteenth st.
From east line of E. Seventh st. to west line of E. Fourteenth st.
From 144.5 ft. s. of s. l. of Knott st. to 255.5 ft. n. of n. l. Siskiyou st.
From east line of E. Seventh st. to west line E. Fourteenth st.
From 144.5 ft. s. of s. l. of Knott st. to 255.5 ft. n. of n. l. Siskiyou st.
From 144.5 ft. s. of s. l. of Knott st. to 255.5 ft. n. of n. l. Siskiyou st.
From east line of E. Twenty-sixth st. to center line Habersham ave.
From south line of Leo ave. to south line of Malden ave.
From 144.5 ft. s. of s. l. of Knott st. to 255.5 ft. n. of n. l. Siskiyou st.
From east line E. Thirty-second st. to west line E. Thirty-fourth st.
From south line of Powell st. to north line of Bismarck st.

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Cubic Yards.				
		Exc.	Emb.	Gravel.	Macadam.	Concrete.
201	Vancouver avenue	1,971	884	.....	2,392.4	.....
202	Vancouver avenue	132	15,682	.....	.....	.....
203	West Park street	383	.....	.....	.....	.....
204	Winona street	803	40	.....	.....	.....
205	Wheeler street	315	1	.....	383.5	.....
206	Yamhill street, East.....	4,818	252	.....	813.5	.....
207	Williams avenue	418	15	.....	.....	.....
208	Elise street	5,896	4	645.4	.....	.....
209	Madison street, East.....	78	983	.....	.....	.....
210	Franklin street	27,527	1,778	.....	.....	.....
211	Union avenue bridge.....	1,696	597	.....	1,190.37	.....
212	28th st. East, bridge.....	146	262	.....	107	.....
213	Twenty-eighth st., East...	3,439	546	.....	.....	.....
214	Willis boulevard	521	335	.....	.....	.....
215	Knott street	15,112	301	.....	.....	.....
216	Twelfth street, East.....	1,733	154	2,945.9	.....	.....
217	Thirty-fourth street, East.	5,964	2,095	.....	.....	.....
218	Portsmouth avenue	5,849	1	.....	.....	.....
219	Morrison street, East.....	503	72	.....	.....	.....
220	Broadway	560	103	.....	841.4	.....
221	Siskiyou street	10,173	100	.....	.....	.....
222	Knott street	5,762	8	.....	.....	.....
223	Eighth street, East.....	7,732	946	.....	.....	.....
224	Stanton street	5,347	1,142	.....	.....	.....
225	Twelfth street, East.....	3,023	.....	.....	.....	.....
226	Eleventh street, East.....	8,653	1,941	.....	.....	.....
227	Ellsworth street	21,097	5,877	.....	.....	.....
228	Thirteenth street, East...	1,105	1	296.8	.....	.....
229	Thirteenth street, East...	2,806	.....	.....	.....	.....
230	Waverleigh Court	18	7,169	.....	.....	.....
231	Thirteenth street, East...	8,167	241	2,004.6	.....	.....
Total		151,747	41,530	5,892.7	4,430.8	1,297.37

STREET WORK DONE DURING 1908—Continued

Sq. ft. Artificial Stone Sidewalk.	Lineal Feet.					
	Sidewalk Without Curb.		Curb.		Crosswalk.	
	Wood.	Gravel.	Art. Stone.	Wood.	Art. Stone.	Wood.
12,252	215	.....	3,249	215	.....	452
1,027	357	.....	161.9	405	.....	104
.....	871.6	.....	.....	900	.....	72
234	.....	.....	55	.....	.....	237
10,870	.....	.....	1,760.4	.....	.....	172
2,205	.....	.....	260	.....	.....	30
8,432	.....	.....	1,400	.....	.....	.....
9,626	.....	.....	1,604.4	.....	.....	.....
29,873	61.5	.....	4,956.5	61.5	.....	258
.....						
11,830	.....	.....	1,966.5	.....	.....	.....
.....	879.3	.....	.....	922.4	.....	132
31,192	.....	.....	5,245.2	.....	.....	.....
6,403	.....	.....	1,003	.....	.....	1,266.7
10,561	277.8	.....	1,734.2	298.2	.....	496
.....	1,468.35	.....	.....	1,518.3	.....	172
1,456	.....	.....	344	.....	.....	.....
2,400	.....	.....	600	.....	.....	.....
14,400	.....	.....	2,400	.....	.....	.....
7,200	.....	.....	1,200	.....	.....	.....
15,444	.....	.....	2,590	.....	.....	.....
14,400	.....	.....	2,400	.....	.....	.....
2,118	.....	.....	356.4	.....	.....	.....
18,824	.....	.....	3,156.4	.....	.....	.....
51,572	734	.....	8,718.7	721	.....	1,282
.....	492.7	.....	.....	472.7	.....	124
2,118	.....	.....	356.4	.....	.....	.....
420	850	.....	70	850	.....	.....
20,338	.....	.....	3,429.2	.....	.....	540
285,195	6,207.25	.....	49,017.2	6,364.1	.....	5,337.7

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Lineal Feet Gutter.		
		Box.	Open.	Stone.
201	Vancouver avenue .....	.....	.....	285
202	Vancouver avenue .....	.....	345	.....
203	West Park street .....	.....	.....	.....
204	Winona street	36	.....	.....
205	Wheeler street .....	.....	.....	78
206	Yamhill street, East.....	.....	.....	112
207	Williams avenue .....	.....	.....	.....
208	Elise street .....	.....	.....	.....
209	Madison street, East.....	.....	.....	.....
210	Franklin street	140	.....	.....
211	Union avenue bridge .....	.....	.....	.....
212	Twenty-eighth street, East, bridge.....	.....	.....	.....
213	Twenty-eighth street, East.....	108	.....	.....
214	Willis boulevard	30	.....	.....
215	Knott street .....	.....	.....	.....
216	Twelfth street, East.....	105	.....	500
217	Thirty-fourth street, East.....	.....	.....	.....
218	Portsmouth avenue	72	422.3	.....
219	Morrison street, East.....	.....	.....	.....
220	Broadway .....	.....	.....	.....
221	Siskiyou street .....	.....	.....	2,400
222	Knott street .....	.....	.....	1,200
223	Eighth street, East.....	.....	.....	2,606
224	Stanton street .....	.....	.....	2,400
225	Twelfth street, East.....	.....	.....	359.6
226	Eleventh street, East.....	.....	.....	3,175.6
227	Ellsworth street	397	.....	.....
228	Thirteenth street, East.....	.....	.....	.....
229	Thirteenth street, East.....	.....	.....	359.6
230	Waverleigh Court .....	.....	.....	.....
231	Thirteenth street, East.....	144	.....	356
Total		1,032	767.3	13,831.8

STREET WORK DONE DURING 1908—Continued

Lineal Feet.						Number of Inlets.
Plank Roadway.	Elevated Roadway, Steel and Concrete Bridges.	Stone Blk. H'dr. D'bl. Row.	Tile, 3-in. dia.	Vit'fied Pipe.	Iron Pipe.	
.....						..
686						..
.....			1,600	.....	.....	..
.....						..
.....						..
.....				110	.....	4
.....		193.2	.....	30	.....	1
.....						..
.....						..
.....	408	.....	.....	.....	.....	..
.....	558	.....	.....	.....	.....	..
.....						..
.....						..
.....				104	.....	8
.....						..
.....						..
.....		120.4	.....	.....	.....	..
.....						..
.....		28	.....	.....	.....	..
.....		36	.....	.....	.....	..
.....		28	.....	62	.....	3
.....		28	.....	.....	.....	..
.....		28	.....	70	.....	2
.....		56	.....	30	.....	1
.....						..
.....		28	.....	35	.....	1
.....						..
.....						..
686	966	545.6	1,600	441	.....	20

STREET WORK DONE DURING 1908—Continued

Number.	Name of Street.	Square Yards.		
		Stone Blk Pavm't.		Bit'l'tic.
		New	Redr'sd and Relaid.	
201	Vancouver avenue .....	.....	.....	.....
202	Vancouver avenue .....	.....	.....	.....
203	West Park street .....	.....	.....	2,310.4
204	Winona street .....	.....	.....	.....
205	Wheeler street .....	.....	.....	.....
206	Yamhill street, East.....	.....	.....	.....
207	Williams avenue	918.1	.....	.....
208	Elise street .....	.....	.....	.....
209	Madison street, East.....	.....	.....	.....
210	Franklin street .....	.....	.....	.....
211	Union avenue bridge .....	.....	.....	.....
212	Twenty-eighth street, East, bridge..	.....	.....	2,232
213	Twenty-eighth street, East.....	.....	.....	.....
214	Willis boulevard .....	.....	.....	.....
215	Knott street .....	.....	.....	.....
216	Twelfth street, East.....	.....	.....	.....
217	Thirty-fourth street, East.....	.....	.....	.....
218	Portsmouth avenue .....	.....	.....	.....
219	Morrison street, East.....	879.6	.....	.....
220	Broadway .....	.....	.....	.....
221	Siskiyou street .....	.....	.....	.....
222	Knott street .....	.....	.....	.....
223	Eighth street, East.....	.....	.....	.....
224	Stanton street .....	.....	.....	.....
225	Twelfth street, East.....	.....	.....	.....
226	Eleventh street, East.....	.....	.....	.....
227	Ellsworth street .....	.....	.....	.....
228	Thirteenth street, East.....	.....	.....	.....
229	Thirteenth street, East.....	.....	.....	.....
230	Waverleigh Court .....	.....	.....	.....
231	Thirteenth street, East.....	.....	.....	.....
Total		1,797.7	.....	4,542.4

STREET WORK DONE DURING 1908—Continued

Asphalt.	Concrete.	Hassam.	Vit'fid Brick.	Lineal Feet Full Width Improvem't.	Actual Cost of Improvement.
.....				2,090	\$ 10,778.02
.....				300	8,404.60
.....				800	5,840.11
.....				450	909.08
.....				270	1,339.60
.....				900	5,558.07
1,831.5	622.4	.....	291.4	670	9,581.86
.....				700	5,328.84
.....				980	1,897.23
.....				2,650	10,912.74
1,632				408	61,248.45
.....				558	68,794.07
.....				1,160	2,813.83
.....				461	781.23
11,755.2				2,560	36,168.14
.....				3,160	8,786.73
.....				1,035	3,879.04
.....				850	2,026.30
1,500.4	596.8	.....	278	660	8,542.03
.....				600	2,892.96
3,199.2				1,530	14,438.42
2,133.6				600	9,254.00
3,813				1,314	14,504.80
3,199.2				1,530	12,471.60
563				184	1,824.00
4,629.4				1,600	18,061.20
.....				4,890	24,683.11
.....				260	1,673.16
563				185	1,810.00
.....				460	1,156.45
.....				1,925	11,802.04
34,819.5	1,219.2	.....	569.4	35,740	\$368,161.71

SEWER WORK DONE DURING 1908

	Name of Sewer.	Date of Estimate.	No. of Ord. Number.
1	Alley thru blks. 2, 3, Riverview add.	May 28, 1908	18107
2	Bancroft avenue	January 7, 1908	17578
3	Bancroft avenue	January 7, 1908	17576
4	Belmont street	January 7, 1908	17577
5	Belmont street	August 26, 1907	17026
6	Constance st. and Union ave.....	June 6, 1908	18271
7	Chain of sewers.....	May 1, 1908	17934
8	Davis street, East.....	October 7, 1907	17354
9	Eighteenth street, East.....	January 19, 1907	16266
10	Eighteenth street, East.....	May 1, 1908	17936
11	Elise st. and Union ave.....	September 21, 1907	17355
12	Fourteenth st. East.....	January 21, 1907	16269
13	Fifteenth street, East.....	March 23, 1908	17766
14	Fifteenth street, East.....	January 21, 1907	16267
15	Fifteenth street, East.....	June 6, 1908	18106
16	Gantenbein avenue	June 6, 1908	18108
17	Glisan street, East.....	September 21, 1907	17144
18	Grand avenue	October 7, 1907	17353
19	Hood street and Lowell avenue.....	March 23, 1908	17769
20	Madison street, East.....	March 23, 1908	17768
21	Maryland avenue	January 7, 1908	17575
22	Melinda avenue	December 16, 1907	17573
23	Montana and Cook avenues.....	May 1, 1908	17935
24	Nineteenth street, East.....	January 21, 1907	16273
25	Nineteenth street, East.....	May 1, 1908	17937
26	Nelson street	January 15, 1908	17666
27	Ross and Page streets.....	January 15, 1909	17638
28	Septic tank and sewer.....	June 6, 1908	18052
29	Second street, East.....	May 1, 1908	18053
30	Seventh street	June 6, 1908	18104
31	Sixteenth street	July 12, 1907	16967
32	Sixteenth street, East.....	January 21, 1907	16270
33	Sixteenth street, East.....	March 23, 1908	17765
34	Seventeenth street, East.....	March 23, 1908	17764
35	Seventeenth street, East.....	January 21, 1907	16271
36	Stark st., East and Ninth st. East..	March 23, 1908	17767
37	Thurman street	March 23, 1908	17870
38	Tenth street, East	August 26, 1907	17024
39	Twentieth street, East.....	January 21, 1907	16265
40	Twenty-first street, East.....	March 23, 1908	17763

SEWER WORK DONE DURING 1908—Continued

Extent of Sewer.
From 100 ft. east of east line Borthwick st. to sewer in Commercial st.
From 100 ft. east of east line Illinois st. to sewer in Ohio st.
From 100 ft. e. of e. l. Ohio st. to sewer in Bancroft av. nr. w. l. 1st st.
From 25 ft. east of east line E. 18th st., if extd. to sewer in E. 19th st.
From c. l. West ave. (E. 60th) to sewer in Myrtle ave. (E. 45th).
From 25 ft. west of east line of Albina to sewer in Fremont st.
In East 8th, E. 9th, E. 10th, E. 11th, E. 12th, E. 13th and Knott sts.
From west line of E. 22d st. to sewer at East 19th st.
From 25 ft. north of north line Thompson st. to sewer in Brazee st.
From center line of Knott st. to sewer in Klickitat st.
Fm. 30 ft. w. of e. l. Albina in Elise to pt. Union, s. in Union to Cook.
From 25 ft. s. of s. l. of Knott st. to sewer in Thompson st.
From center line Siskiyou st. to sewer in E. 15th, 25 ft. s. of s. l. Knott.
From 25 ft. s. of s. line Knott st. to sewer in Thompson st.
From 150 ft. north of Tillamook st. to sewer in Thompson st.
From center line Tillamook st. to sewer in Hancock st.
From lot 10, Bronaugh's add., to sewer in E. 24th st.
From north line E. Everett st. to sewer in E. Davis st.
From 120 ft. s. of s. l. Lane to pt. Lowell, thence e. to Macadam st.
From e. l. of Sunnyside add. to sewer in E. Madison near E. 41st. st.
From 50 ft. n. of n. line Prescott st. to sewer in Beech st.
From 250 ft. w. w. l. F. G. King tr. to sewer in Melina ave. at n line tr.
From 25 ft. s. of s. l. Fremont to pt. in Cook ave., e. to Minnesota av.
From 25 ft. north of north line Thompson st. to sewer in Brazee st.
From center line Knott st. to sewer in Klickitat st.
From 25 ft. e. of w. line of Logan's add. to sewer in Lawrence st.
From 130 ft. s. s. l. Russell to pt. in Page; thence to Borthwick st.
In alley bet. blks. B, C.; also in Smith, Homer, Periander, Patton road.
From center line East Taylor st. to sewer in East Alder st.
From north line Irving st. to sewer in 7th st. at north line Hoyt st.
From 100 ft. s. of s. line Jackson st. to sewer at Harrison st. (vacated).
From 25 feet south of south line Knott st. to sewer in Thompson st.
From c. l. Siskiyou st. to sewer in E. 16th st., 25 ft. s. of s. l. Knott st.
From c. l. Siskiyou st. to sewer in E. 17th st., 25 ft. s. of s. l. Knott st.
From 25 ft. south of south line Knott st. to sewer in Brazee st.
From 75 ft. e. of e. l. E. 11th to pt. in E. 9th; then s. to E. Washington.
From easterly line lot 27, Blythswood, to sewer in Thurman st.
From 60 ft. north of north line E. Hoyt st. to sewer in E. Davis st.
From 25 ft. north of north line Thompson st. to sewer in Brazee st.
From the center line of Siskiyou st. to sewer in Knott st.

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Sewer.
1	Alley thru blocks 2 and 3, Riverview add.
2	Bancroft avenue
3	Bancroft avenue
4	Belmont street
5	Belmont street
6	Constance street and Union avenue
7	Chain of sewers
8	Davis street, East
9	Eighteenth street, East
10	Eighteenth street, East
11	Elise street and Union avenue
12	Fourteenth street, East
13	Fifteenth street, East
14	Fifteenth street, East
15	Fifteenth street, East
16	Gantenbein avenue
17	Glisan street, East
18	Grand avenue
19	Hood street and Lowell avenue
20	Madison street, East
21	Maryland avenue
22	Melinda avenue
23	Montana and Cook avenues
24	Nineteenth street, East
25	Nineteenth street, East
26	Nelson street
27	Ross and Page streets
28	Septic tank and sewer
29	Second street, East
30	Seventh street
31	Sixteenth street
32	Sixteenth street, East
33	Sixteenth street, East
34	Seventeenth street, East
35	Seventeenth street, East
36	Stark street, East and Ninth street, East
37	Thurman street
38	Tenth street, East
39	Twentieth street, East
40	Twenty-first street, East
	Total

SEWER WORK DONE DURING 1908—Continued

Lineal Feet of Vitrified Sewer Pipe.

6-in.	8-in.	10-in.	12-in.	14-in.	16-in.	18-in.	20-in.	22-in.	24-in.
	542								
	248								
	240								
90	224								
	230	2,722	632						
	818								
4,644	3,588	4,022	1,332	502		250	252		1,102
	510	220							
220	500								
1,143	537	512	518						
	806								
474	48	990							
810	586	583							
548	50		980						
200	345								
	548								
	336								
360	340								
	832								
	286								
	198	373	418	840	600				
	254								
	284	425							
220	484								
1,085	535	512	518						
	205								
	636								
	1,422	8							
			468	497					
	76	240							
	933								
548	22		980						
812	590	583							
1,320	532	583							
220	22		488						
	893								
		1,607							
	622	504							
220	480								
888	30	508	530						
13,802	19,832	14,392	6,854	1,839	600	250	252		1,102

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Sewer.
1	Alley thru blocks 2 and 3, Riverview add.....
2	Bancroft avenue
3	Bancroft avenue
4	Belmont street
5	Belmont street
6	Constance street and Union avenue.....
7	Chain of sewers.....
8	Davis street, East.....
9	Eighteenth street, East
10	Eighteenth street, East
11	Elise street and Union avenue
12	Fourteenth street, East.....
13	Fifteenth street, East
14	Fifteenth street, East
15	Fifteenth street, East
16	Gantenbein avenue
17	Glisan street, East
18	Grand avenue
19	Hood street and Lowell avenue.....
20	Madison street, East
21	Maryland avenue
22	Melinda avenue
23	Montana and Cook avenues
24	Nineteenth street, East
25	Nineteenth street, East
26	Nelson street
27	Ross and Page streets.....
28	Septic tank and sewer.....
29	Second street, East
30	Seventh street
31	Sixteenth street
32	Sixteenth street, East
33	Sixteenth street, East
34	Seventeenth street, East
35	Seventeenth street, East
36	Stark street, East and Ninth street, East.....
37	Thurman street
38	Tenth street, East
39	Twentieth street, East
40	Twenty-first street, East
	Total

SEWER WORK DONE DURING 1908—Continued

Number of "Y" Branches.

6x6	8x6	10x6	12x6	14x6	16x6	18x6	20x6	22x6	24x6	8x8	10x8	12x8
	26											
	16									1		
	12											
6	6											
		129	29									
	31											
	114	112	34	9		5	4		16			
	22	8										
20	20									1		
	26	24	20									1
	32											
39		39									1	
	26	26										
44			44									1
	15											
	20											
	12											
	12											
	33											
	16											
		17	21	40	25							
	10											
	12										22	
20	20											
	26	24	20							2		1
	6											
	17											
	61	1								1	2	
			26	20								
		7										
	33									2		
44			44									1
	24	26										
	24	26										
20			20									1
	36											
		30									4	
	32	20										
20	20											
		26	20									
213	760	515	278	69	25	5	4		16	7	29	3

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Sewer.
1	Alley thru blocks 2 and 3, Riverview add.
2	Bancroft avenue
3	Bancroft avenue
4	Belmont street
5	Belmont street
6	Constance street and Union avenue.
7	Chain of sewers.
8	Davis street, East.
9	Eighteenth street, East
10	Eighteenth street, East
11	Elise street and Union avenue
12	Fourteenth street, East.
13	Fifteenth street, East
14	Fifteenth street, East
15	Fifteenth street, East
16	Gantenbein avenue
17	Glisan street, East
18	Grand avenue
19	Hood street and Lowell avenue.
20	Madison street, East
21	Maryland avenue
22	Melinda avenue
23	Montana and Cook avenues
24	Nineteenth street, East
25	Nineteenth street, East
26	Nelson street
27	Ross and Page streets.
28	Septic tank and sewer.
29	Second street, East
30	Seventh street
31	Sixteenth street
32	Sixteenth street, East
33	Sixteenth street, East
34	Seventeenth street, East
35	Seventeenth street, East
36	Stark street, East and Ninth street, East.
37	Thurman street
38	Tenth street, East
39	Twentieth street, East
40	Twenty-first street, East
Total	

SEWER WORK DONE DURING 1908—Continued

One-eighth Bends.	Elbows	Concrete Corners.	Flat inlets and Grating, Complete.	Manholes.		Cubic Yards Excavation and Refilling.	Lineal Feet of Sewer.	Cost of Sewer.
				Com. and C. B.	Complete.			
...	3	1	..	1	..	297	594	\$ 485.00
...	..	..	..	..	1	228	282	257.25
...	..	..	..	..	..	156	264	173.65
...	..	..	..	..	1	356	338	297.75
...	16	..	4	6	2	3,309	3,890	4,625.15
...	3	1	2	1	1	485	880	749.95
...	..	..	..	..	19	14,456	16,280	15,075.40
...	3	2	2	1	2	520	790	871.15
20	..	..	..	..	..	537	802	524.10
...	6	..	..	2	1	2,801	2,852	2,455.60
...	7	1	2	2	1	620	870	992.45
39	4	2	..	1	..	2,850	1,670	2,138.40
...	6	..	..	3	..	2,147	2,083	2,137.80
44	4	2	..	1	..	2,609	1,756	2,129.40
...	..	..	1	..	1	322	575	386.40
...	3	1	..	1	1	385	588	480.15
...	..	..	..	..	1	163	360	295.75
...	4	1	..	1	..	504	724	653.95
...	9	3	..	3	..	562	898	947.75
...	3	1	..	1	..	131	318	284.65
...	18	5	1	6	1	3,221	2,635	3,769.90
...	3	..	1	..	1	167	274	284.80
...	3	1	..	1	..	563	777	666.40
20	2	2	..	..	..	630	788	584.90
...	6	..	..	2	1	2,522	2,792	2,352.00
...	..	..	..	..	..	113	217	146.50
...	3	1	1	1	..	367	670	534.65
...	1	..	..	..	8	701	1,560	1,585.95
...	6	..	3	1	4	1,083	1,057	2,000.60
...	7	..	5	2	..	130	330	350.55
...	..	..	..	..	..	739	1,003	1,223.75
44	1	1	..	..	1	2,231	1,728	1,922.40
...	9	..	..	2	1	2,310	2,085	2,242.30
...	11	..	..	3	..	2,601	2,535	2,490.60
...	1	1	..	..	..	1,135	812	936.80
20	10	..	..	3	..	740	965	1,146.90
...	..	..	..	..	6	1,272	1,675	2,094.35
...	9	3	..	3	1	984	1,230	1,477.10
...	20	..	..	..	..	607	780	545.60
...	6	..	..	2	..	1,660	2,048	1,955.60
207	167	29	22	50	55	57,214	62,775	\$64,273.35

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Sewer.	Date of Estimate.	No. of Ord.
41	Twenty-second street, East.....	March 23, 1908	17762
42	Twenty-third street, East.....	March 23, 1908	17761
43	Twenty-fourth street, East.....	March 23, 1908	17760
44	Twenty-eighth street, East.....	June 6, 1908	18105
45	Twenty-ninth street, East.....	May 1, 1908	18054
46	Thirty-fourth street, East.....	September 21, 1907	17143
47	Vaughn street	January 7, 1908	17639
48	Vista avenue and Terrace road....	August 13, 1907	16965
49	Vista avenue	December 16, 1907	17637
50	Water street, East	October 7, 1907	17574
51	Wygant street	September 21, 1907	17146
52	Stark st., East, and 35th st., East..	June 18, 1908	18249

SEWER WORK DONE DURING 1908—Continued

Extent of Sewer.
From center line of Siskiyou st. to sewer in Knott st.
From center line of Siskiyou st. to sewer in Knott st.
From center line of Siskiyou st. to sewer in Knott st.
From 100 ft. n. of n. l. E. Stark st. to the sewer in E. Pine st.
From 100 ft. s. of s. l. E. Pine st. to sewer in E. Stark st.
From s. l. E. Stark st. to sewer in E. 34th st. at E. Washington st.
Fm. c. l. alley bet. blks. 29, 30, 31, Willam. Hts., to sewer in Vaughn st.
In Vista from c. l. blk. 50, Carter's ad. round blk. 60 to Terrace road.
From pt. 5 ft. n. of s. l. lot 2, blk. 52, Carter's add., to Jefferson st.
From 100 ft. south of south line E. Oak st. to sewer in E. Alder st.
From 75 ft. east of east line E. 10th st. to sewer in E. 7th st.
From 100 ft. w. of w. l. E. 37th to pt. in E. 35th thence to E. Stark st.

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Street.
41	Twenty-second street, East
42	Twenty-third street, East
43	Twenty-fourth street, East
44	Twenty-eighth street, East
45	Twenty-ninth street, East
46	Thirty-fourth street, East
47	Vaughn street
48	Vista avenue and Terrace road
49	Vista avenue
50	Water street, East
51	Wygant street
52	Stark street, East, and Thirty-fifth street, East
	Total
	East Side
	West Side
	Grand total

SEWER WORK DONE DURING 1908—Continued

Lineal Feet of Vitrified Sewer Pipe.

6-in.	8-in.	10-in.	12-in.	14-in.	16-in.	18-in.	20-in.	22-in.	24-in.
684	6	508	.....	530	.....	.....	.....	.....	.....
682	88	.....	508	.....	530	.....	.....	.....	.....
960	22	.....	.....	508	530	.....	.....	.....	.....
.....	354	.....	.....	.....	.....	.....	.....	.....	.....
.....	384	.....	.....	.....	.....	.....	.....	.....	.....
.....	176	.....	.....	.....	.....	.....	.....	.....	.....
130	212	.....	.....	.....	.....	.....	.....	.....	.....
.....	556	.....	.....	.....	.....	.....	.....	.....	.....
.....	320	582	.....	.....	.....	.....	.....	.....	.....
.....	344	584	.....	.....	.....	.....	.....	.....	.....
.....	530	240	.....	.....	.....	.....	.....	.....	.....
.....	600	.....	.....	.....	.....	.....	.....	.....	.....
2,456	3,592	1,914	508	1,038	1,060	.....	.....	.....	.....
16,128	18,331	13,869	7,362	2,877	1,660	250	252	.....	1,102
130	5,093	2,437	.....	.....	.....	.....	.....	.....	.....
16,258	23,424	16,306	7,362	2,877	1,660	250	252	.....	1,102

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Street.	Number of "Y" Branches.											
		6x6	8x6	10x6	12x6	14x6	16x6	18x6	20x6	22x6	24x6	8x8	10x8
41	Twenty-second street, East			24		20							
42	Twenty-third street, East				26		20						
43	Twenty-fourth street, East					26	20						
44	Twenty-eighth street, East		13										
45	Twenty-ninth street, East		14										
46	Thirty-fourth street, East		12									1	
47	Vaughn street		10										
48	Vista avenue and Terrace road		12										
49	Vista avenue		2	9									
50	Water street, East			28									
51	Wygant street		29	10									
52	Stark street, East, and Thirty-fifth street, East		29										
	Total	121	71	26	46	40						1	
	East Side	213	692	539	304	115	65	5	4		16	3	24
	West Side		189	47								4	6
	Grand total	213	881	586	304	115	65	5	4		16	7	30

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Street.	Number of "Y" Branches.											
		6x6	8x6	10x6	12x6	14x6	16x6	18x6	20x6	22x6	24x6	8x8	10x8
41	Twenty-second street, East			24		20							
42	Twenty-third street, East				26		20						
43	Twenty-fourth street, East					26	20						
44	Twenty-eighth street, East		13										
45	Twenty-ninth street, East		14										
46	Thirty-fourth street, East		12									1	
47	Vaughn street		10										
48	Vista avenue and Terrace road		12										
49	Vista avenue		2	9									
50	Water street, East			28									
51	Wygant street		29	10									
52	Stark street, East, and Thirty-fifth street, East		29										
	Total	121	71	26	46	40						1	
	East Side	213	692	539	304	115	65	5	4		16	3	24
	West Side		189	47								4	6
	Grand total	213	881	586	304	115	65	5	4		16	7	30

SEWER WORK DONE DURING 1908—Continued

Number.	Name of Street.
41	Twenty-second street, East
42	Twenty-third street, East
43	Twenty-fourth street, East
44	Twenty-eighth street, East
45	Twenty-ninth street, East
46	Thirty-fourth street, East
47	Vaughn street
48	Vista avenue and Terrace road
49	Vista avenue
50	Water street, East
51	Wygant street
52	Stark street, East, and Thirty-fifth street, East
	Total
	East Side
	West Side
	Grand total

SEWER WORK DONE DURING 1908—Continued

One-eighth Bends.	Elbows.	Concrete Corners.	Flat inlets and Grating Complete.	Manholes.		Cubic Yards Excavation and Refilling.	Lineal Feet of Sewer.	Cost of Sewer.
				Com. and C. B.	Complete.			
...	7	..	..	2	..	1,349	1,816	\$ 1,986.70
...	9	5	..	2	..	2,015	1,900	2,558.60
...	3	..	..	1	1	2,474	2,112	3,009.60
...	..	..	..	..	1	253	380	315.45
...	3	2	..	1	..	360	414	388.20
...	..	..	..	..	1	137	200	228.50
...	3	1	..	1	..	223	362	326.35
...	..	..	1	..	1	194	580	423.55
...	6	2	..	2	1	305	924	920.15
...	14	8	6	2	..	588	984	1,312.00
...	..	..	..	..	4	736	848	1,046.05
...	..	..	..	..	2	470	658	618.98
...	45	18	7	11	11	9,104	11,178	\$13,134.13
207	177	41	19	52	48	61,641	63,801	\$68,819.38
...	35	6	10	9	18	4,677	8,152	3,588.10
207	212	47	29	61	66	66,318	73,953	\$77,407.48

LENGTH AND INTERIOR DIAMETER OF SEWERS AS LAID
IN DIFFERENT YEARS TO DECEMBER, 1908, IN THE
CITY OF PORTLAND (BY ORDINANCE)—Continued

Year.	Oval Sewer—Diameter in Inches.				Wooden Sewer.	
	34x51	28x42	24x36	29x44	36x48	24x24
1875						
1876						
1877						
1878						
1879						
1880						
1881						
1882						
1883						
1884						
1885						
1886						727
1887						
1888					1,220	
1889			597			
1890						
Previous to July 1, 1891, in district annexed by consolidation						
1891						
1892						
1893						
1894						
1895						
1896						
1897						
1898						
1899						
1900						
1901		1,806				
1902						
1903	510		930	490		
1904						
1905						
1906				474		
1907						
1908						
Total	510	1,806	1,527	964	1,220	727

LENGTH AND INTERIOR DIAMETER OF SEWERS AS LAID
IN DIFFERENT YEARS TO DECEMBER, 1908, IN THE
CITY OF PORTLAND (BY ORDINANCE)—Continued

Terra Cotta Sewer Pipe—Diameter in Inches.									
24	22	20	18	16	15	14	12	10	9
							270		111
							430		710
					3,356		2,739	1,540	344
				757	1,022		1,959	72	
					4,169		10,327		362
					5,820		17,845		2,879
					2,634		8,030		863
			1,410		2,040		2,240		8,015
							1,461		2,772
	840	1,240	1,600						7,792
564		265		265	820	2,215	10,222	1,830	5,360
					283	7,358	16,876	4,056	3,826
			308			7,482	5,905	2,641	2,189
	1,335		2,640			1,620	8,020	2,780	
			1,356	3,160		2,051	14,593	2,310	2,043
3,640			552	12,213		12,896	19,046	9,593	
5,699	1,040	2,740	780	2,288		7,327	8,595	13,480	
		1,254	270	250		1,842	3,909	5,045	
284	520	104	800	780		522	5,801	12,153	
		560	780	1,823		1,772	6,346	7,173	
						505	1,234	3,654	
		654					812	1,683	
				2,748		451	2,017	2,234	
		220	218	226		660	2,542	4,185	
5,467				72		1,268	266	4,270	
2,242	932	764	150	1,062		6,077	7,049	8,297	
1,667	4,258	1,293	740	583		5,710	15,534	12,663	
1,145	1,030	605	951	3,161		5,529	11,983	18,446	
942	641	539	260	1,912		3,870	4,898	5,543	
1,292	746	1,639	2,498	5,292		5,422	8,549	12,137	
496	520	250	2,318	960		3,346	7,416	20,760	
1,102		252	250	1,660		2,877	7,362	16,306	
24,540	11,862	12,379	17,881	39,212	20,144	80,800	214,276	176,452	45,034

LENGTH AND INTERIOR DIAMETER OF SEWERS AS LAID
IN DIFFERENT YEARS TO DECEMBER, 1908, IN THE
CITY OF PORTLAND (BY ORDINANCE)—Continued

Year.	Terra Cotta Sewer Pipe, Diam in ins.		One- Eighth Bends.	Total Lineal Feet.	Total Length, Miles.
	8	6			
1875				381	.072
1876				1,140	.216
1877					
1878				8,079	1.530
1879				3,810	.722
1880				14,858	2.814
1881				26,544	5.027
1882				11,527	2.183
1883					
1884				13,705	2.596
1885				4,233	.802
1886	293			12,492	2.366
1887				15,660	2.966
1888				23,761	4.500
1889	600			42,987	8.141
1890	260			20,605	3.903
Previous to July 1					
1891, in district annexed by consolidation.	1,580			17,975	3.404
1891	214			30,397	5.757
1892	7,600			79,648	15.084
1893	3,988			61,879	11.719
1894	1,473			14,768	2.797
1895	1,160			22,124	4.190
1896	2,526			20,980	3.973
1897	4,626			10,019	1.897
1898	2,431			5,580	1.057
1899	3,812			11,262	2.133
1900	6,480			17,802	3.372
1901	11,619			28,607	5.418
1902	13,535			40,108	7.596
1903	19,128			71,035	13.454
1904	26,647			70,297	13.313
1905	11,149			30,969	5.865
1906	16,671	640		68,281	12.932
1907	40,098	5,162	322	83,048.4	15.729
1908	23,424	16,258	207	73,953.0	14.006
Total	199,314	22,060	529	958,514.4	181.534

SUMMARY OF LENGTH AND MATERIAL OF ROADWAYS IN
CITY OF PORTLAND

Roadway.	In Place January 1, 1908.			
	Lineal Feet.	Miles.	W. Side, Miles.	E. Side, Miles.
Steel bridge	1,545	.293	.227	.066
Asphalt	45,621	8.640	5.164	3.476
Stone blocks	27,891	5.282	5.282	.....
Wood blocks	10,280	1.947	1.747	.200
Bitulithic	68,460	12.966	8.036	4.930
Macadam	382,752	72.491	60.341	12.150
Gravel	487,323	92.296	.076	92.220
Plank roadway	39,320	7.447	.807	6.640
Elevated roadway	17,588	3.331	.921	2.410
Vitrified brick	6,531	1.237	.937	.300
Graded streets (earth grade)	592,353	112.188	11.636	100.552
Bituminous macadam	805	.152	.152	.....
Reinforced concrete bridge	.....	.....	.....	.....
Hassam	.....	.....	.....	.....
Total	1,680,469	318.270	95.326	222.944
Sidewalk.				
Artificial stone	1,320,674	250.127	.....	.....
Wood	1,090,510	206.536	.....	.....
Gravel	55,604	10.531	.....	.....
Cinder	827	.157	.....	.....
Wood block	100	.019	.....	.....
Bitulithic	200	.038	.....	.....
Brick	2,091	.396	.....	.....
Asphalt	2,762	.523	.....	.....
Total	2,472,768	468.327	.....	.....
Done by Private Parties—				
Gravel roadway	.....	.....	.....	.....
Earth grade roadway	.....	.....	.....	.....
Total	.....	.....	.....	.....
Sidewalk.				
Artificial stone	.....	.....	.....	.....
Total	.....	.....	.....	.....
Grand total roadway....	1,680,469	318.270	95.326	222.944
Grand total sidewalk....	2,472,768	468.327	.....	.....

SUMMARY OF LENGTH AND MATERIAL OF ROADWAYS IN CITY OF PORTLAND—Continued

Roadway.	Laid During 1908.			
	Lineal Feet.	Miles.	W. Side, Miles.	E. Side, Miles.
Steel bridge	408	.077	.....	.077
Asphalt	33,913	6.423	1.682	4.741
Stone blocks	1,184	.224	.104	.120
Wood blocks .....	.....	.....	.....	.....
Bitulithic	40,192	7.612	4.205	3.407
Macadam	46,140	8.739	.740	7.999
Gravel	44,807	8.486	.....	8.486
Plank roadway	300	.057	.....	.057
Elevated roadway .....	.....	.....	.....	.....
Vitrified brick .....	.....	.....	.....	.....
Graded street (earth grade)	128,717	24.378	.040	24.338
Bituminous macadam .....	.....	.....	.....	.....
Reinforced concrete bridge	558	.105	.....	.105
Hassam	2,966	.562	.....	.562
Total	299,185	56.663	6.771	49.892
Sidewalk.				
Artificial stone	409,283	77.516	13.016	64.500
Wood	114,115.18	21.612	.132	21.480
Gravel	3,436.7	.651	.....	.651
Cinder .....	.....	.....	.....	.....
Wood block .....	.....	.....	.....	.....
Bitulithic .....	.....	.....	.....	.....
Brick .....	.....	.....	.....	.....
Asphalt .....	.....	.....	.....	.....
Total	526,834.88	99.779	13.148	86.631
Done by Private Parties—				
Gravel roadway	16,390	3.104	.....	3.104
Earth grade roadway	55,693	10.548	.....	10.548
Total	72,083	13.652	.....	13.652
Sidewalk.				
Artificial stone	47,269	8.952	.....	8.952
Total	47,269	8.952	.....	8.952
Grand total roadway..	371,268	70.315	6.771	63.544
Grand total sidewalk..	574,103.88	108.731	13.148	95.583

SUMMARY OF LENGTH AND MATERIAL OF ROADWAYS IN CITY OF PORTLAND—Continued

Roadway.	In Place January 1, 1909.			
	Lineal Feet.	Miles.	W. Side, Miles.	E. Side, Miles.
Steel bridge	1,953	.370	.227	.143
Asphalt	79,044	14.970	6.753	8.217
Stone blocks	29,075	5.506	5.386	.120
Wood blocks	10,280	1.947	1.747	.200
Bitulithic	108,652	20.578	12.241	8.337
Macadam	405,107	76.725	57.063	19.662
Gravel	521,759	98.818	.076	98.742
Plank roadway	31,500	5.966	.807	5.159
Elevated roadway	16,292	3.086	.921	2.165
Vitrified brick	5,311	1.006	.706	.300
Graded streets (earth grade)	646,181	122.883	10.299	112.084
Bituminous macadam	805	.152	.152	.....
Reinforced concrete bridge..	558	.105	.....	.105
Hassam	2,966	.562	.....	.562
Total	1,859,483	352.174	96.378	255.796
Sidewalk.				
Artificial stone	1,729,957	327.643	.....	.....
Wood	1,095,574.18	207.495	.....	.....
Gravel	59,040.7	11.182	.....	.....
Cinder	827	.157	.....	.....
Wood block	100	.019	.....	.....
Bitulithic	200	.038	.....	.....
Brick	2,091	.396	.....	.....
Asphalt	2,762	.523	.....	.....
Total	2,890,551.88	547.453	.....	.....
Done by Private Parties—				
Gravel roadway	16,390	3.104	.....	3.104
Earth grade roadway	55,693	10.548	.....	10.548
Total	72,083	13.652	.....	13.652
Sidewalk.				
Artificial stone	47,269	8.952	.....	.....
Total	47,269	8.952	.....	.....
Grand total roadway....	1,931,566	365.826	96.378	269,448
Grand total sidewalk...	2,937,820.88	556.405	.....	.....

SUMMARY OF LENGTH AND MATERIAL OF ROADWAYS IN
CITY OF PORTLAND—Continued

Roadway.	Actual Cost of Improv. Work for 1908. Under Ordinance.		
	West Side.	East Side.	Total.
Steel bridge		\$ 61,248.45	\$ 61,248.45
Asphalt	\$118,436.22	271,826.25	390,262.47
Stone blocks	10,596.91	6,607.40	17,204.31
Wood blocks			
Bitulithic	230,292.50	235,514.79	465,807.29
Macadam	16,649.21	241,476.05	258,125.26
Gravel		224,994.41	224,994.41
Plank roadway		8,404.60	8,404.60
Elevated roadway			
Vitrified brick			
Graded street (earth grade) ..	889.07	255,123.26	256,012.33
Bituminous macadam			
Reinforced concrete bridge ..		68,794.07	68,794.07
Hassam			
Total	\$376,863.91	\$1,373,989.28	\$1,750,853.19
Sidewalk.			
Artificial stone			
Wood			
Gravel			
Cinder			
Wood block			
Bitulithic			
Brick			
Asphalt			
Total			
Done by Private Parties—			
Gravel roadway	\$ 11,745.00		\$ 11,745.00
Earth grade roadway	95,676.00		95,676.00
Total	\$ 107,421.00		\$ 107,421.00
Sidewalk.			
Artificial stone			
Total			
Grand total roadway....	\$376,863.91	\$1,481,410.28	\$1,858,274.19
Grand total sidewalk....			

STREETS VACATED DURING 1908

No.	Name of Street.	Limits of Vacation.
1	Prospect Drive	All that part in tr. 60, Carter's add., not shown in plat recorded 1907.
2	Market Street Drive	E. I. Vista ave. to 51.39 ft. nw. alley bet. blks. 34 and 51, Carter's add.
3	Alleys in Mock's add. to U. P. ..	All alleys in blocks 79 and 80, Mock's add. to University Park.
4	East View street	Between block "E," Tabor Heights, and block 1, Broadview.
5	Congress street	North line of tract "O," M. Patton's tract to 490 ft. south therefrom.
6	Greenwood avenue	South line Section Line road to south boundary of City of Portland.
7	Kilpatrick street	West line of Aubrey street to east line of Delaware avenue.
8	Schofield street	West line of Aubrey street to east line of Delaware avenue.
9	Slocum street	West line of Aubrey street to east line of Delaware avenue.
10	Farragut street	From 100 ft. north of north line of Terry st. to north end Aubrey st.
11	Winchell street	East line of Aubrey street to west line of Patton avenue.
12	Kilpatrick street	West line of Aubrey street to west line of Patton avenue.
13	Chatham street	North line of Pippin street to east end of Kilpatrick street.
14	Ellesmere street	North line of Pippin street to south line of Kilpatrick street.
15	Greenwich street	North line of Pippin street to south line of Kilpatrick street.
16	Hollywood street	North line of Pippin street to south line of Kilpatrick street.
17	Alleys in Graybrook add.	All alleys in blocks 4 to 24, inclusive.
18	Motor street	Bet. west and east lines blk. 2, Mt. Tabor Central Tract extd. south
19	Sixty-first street, East	and south line blk. 2, Mt. Tabor Central Tr. and n. l. Belmont st.
20	Summer street	North line lot 4, blk. 1, Mt. Tabor Central Tr. to s. l. Base Line road.
21	Verna street	East line of Congress street to west line of Commercial street.
22	"T" street (12th street, East) ..	From its northern to its southern terminus in "Welch."
23	Union avenue	Linn avenue to Ochoco avenue.
24	Seventy-second street, East	All that part in "Sunrise."
25	Alhambra avenue	All that part in "Sunrise."
26	Williams avenue	Overlook boulevard to Mason street, extended.
27		Strip on west side Williams ave., between Fremont and Ivy streets.

SUMMARY OF PERMITS, ETC., ISSUED

	1908.	1907.
Permits to construct cement and wooden walks.....	1,601	1,433
Permits to open streets for gas, water and sewers.....	2,197	1,688
Permits to privately improve streets	410	342
Permits to move buildings	20	120
Permits to hang signs	37	104
Permits to use streets for building purposes.....	1,849	1,576
Certificates issued for completed walks.....	835	882
Notices posted to repair sidewalks.....	858	2,167

STATEMENT SHOWING AVERAGE CONTRACT PRICES FOR
STREET IMPROVEMENT DURING 1908

Kind of Improvement.	Unit.	Cost.
Asphalt, 5-in. concrete foundation.....	Per sq. yd.	\$2.25
Bitulithic	Per sq. yd.	2.20
Stone blocks (new), exclusive of foundation.....	Per sq. yd.	2.61
Macadam	Per cu. yd.	2.64
Gravel	Per cu. yd.	2.15
Plank roadway, 10 ft. wide.....	Per lin. ft.	1.25
Concrete, 6 inches thick	Per sq. yd.	1.00
Earth excavation	Per cu. yd.	0.32
Earth embankment	Per cu. yd.	.28
Artificial stone sidewalk	Per sq. ft.	.11½
Wood sidewalk, 6 feet wide, without curb.....	Per lin. ft.	.36
Wood sidewalk, 12 feet wide, with curb.....	Per lin. ft.	1.10
Wood sidewalk, 18 feet wide, with curb.....	Per lin. ft.	1.43
Wood sidewalk, 10 feet wide, with curb.....	Per lin. ft.	1.00
Gravel sidewalk, 6 feet wide, without curb.....	Per lin. ft.	.33
Artificial stone curb	Per lin. ft.	.36
Wood curb	Per lin. ft.	.14
Wood crosswalk	Per lin. ft.	.47
Box gutter, wood	Per lin. ft.	.49
Open gutter, wood	Per lin. ft.	.24
Stone block gutter	Per lin. ft.	.52
Stone block header (double row).....	Per lin. ft.	.50
Drain tile, 3-inch, laid in gravel.....	Per lin. ft.	.12
Vitrified pipe, 6-inch, laid and connected.....	Per lin. ft.	.49
Inlets	Each	25.00

STEEL BRIDGES SPANNING GULCHES, PORTLAND, OR., DECEMBER 31, 1908

Name.	Size.	Height.	Roadway.	Paving.	Walks.
Front street, Marquam gulch.....	63½x495 ft.	70 ft.	1-39 ft. 9 in. Steel joists.	Wood blocks on planks.	2-12 ft. Wood joists, 3 in. plank.
First street, Marquam gulch.....	63½x300 ft.	70 ft.	1-39 ft. 9 in. Steel joists.	Wood blocks on Concrete.	2-12 ft. Wood joists, 3 in. plank.
Thurman street, Balch's creek.....	40 x400 ft.	100 ft.	1-28 ft. 4-15 in. Is. Wood.	Planks.	2-6 ft. Wood joists, 2 in. plank.
Grand avenue	64 x360 ft.	60 ft.	1-40 ft. Steel joists.	Asphalt on Concrete.	2-12 ft. Steel joists, cement on concrete.
Union avenue	60 x408 ft.	60 ft.	1-36 ft. Steel joists.	Asphalt on Concrete.	2-12 ft. Steel joists, cement on concrete.
*Ford street	45 x520 ft.	125 ft.	1-33 ft. Wood joists.	Planks.	2-6 ft. Wood joists and plank.

*Bridge built by the Portland Railway Light & Power Co.

STEEL BRIDGES SPANNING GULCHES, PORTLAND, OR., DECEMBER 31, 1908

Name.	Wt. of steel.	Per Lineal Foot.			Total cost.	Cost pr. Sq. ft.
		Live load.	Dead load.	Total load.		
Front street, Marquam gulch.....	1,133,250 lbs.	7,800 lbs. per foot.	4,200 lbs. per foot.	12,000 lbs. per foot.	\$69,071.00	\$2.19
First street, Marquam gulch.....	504,500 lbs.	2,000 lbs. per foot.	3,600 lbs. per foot.	5,600 lbs. per foot.	59,386.00	3.10
Thurman street, Balch's creek.....	423,000 lbs.	4,200 lbs. per foot.	2,800 lbs. per foot.	7,000 lbs. per foot.	35,000.00	2.19
Grand avenue	800,000 lbs.	6,920 lbs. per foot.	6,920 lbs. per foot.	13,840 lbs. per foot.	63,501.27	2.75
Union avenue	820,000 lbs.	6,600 lbs. per foot.	6,600 lbs. per foot.	13,200 lbs. per foot.	61,248.45	2.50
*Ford street	445,600 lbs.	4,200 lbs. per foot.	2,000 lbs. per foot.	6,200 lbs. per foot.	35,000.00	1.50

*Bridge built by the Portland Railway, Light & Power Company.

COMPARATIVE COST OF PAVEMENTS FOR 60-FOOT STREET, ALREADY GRAVELED OR MACADAMIZED, INCLUDING COST OF GRADING DOWN TO REQUIRED SUBGRADE, LAYING OF CEMENT WALK AND CURB, AND WITH 5 PER CENT ADDED TO ALLOW FOR COST OF ENGINEERING, ADVERTISING AND INSPECTION—BASED ON PREVAILING PRICES, 1908

Kind of Pavement.	Cost for 1/4 intersection of 28-foot roadway.					Cost for 50-foot lot fronting on 28-foot roadway.				
	Cost of grading street to required subgrade at 75c per cu. yd.	For laying cement sidewalk to replace wood at 12c per sq. ft.	For laying cement curb to replace wood curb at 40c per lineal foot.	Cost of laying pavement.	Total cost for full improvement.	Cost of grading street to required subgrade at 75c per cu. yd.	For laying cement sidewalk to replace wood at 12c per sq. ft.	For laying cement curb to replace wood curb at 40c per lin. ft.	Cost of laying pavement.	Total cost for full improvement.
Gravel at \$2.25 per cu. yd.	\$16.85	\$27.85	\$11.76	\$50.56	\$107.02	\$16.94	\$37.80	\$21.00	\$50.80	\$126.54
Macadam at \$2.75 per cu. yd.	16.85	27.85	11.76	61.79	118.25	16.94	37.80	21.00	62.08	137.82
Hassam at \$2.00 per sq. yd.	9.69	27.85	11.76	155.19	204.49	10.24	37.80	21.00	163.38	232.42
Bitulithic at \$2.25 per sq. yd. with drain tile at 12c per lin. ft.	9.69	27.85	11.76	178.37	227.67	10.24	37.80	21.00	190.10	259.14
Asphalt at \$2.25 per sq. yd. with 2-ft. brick gutter at \$3.60 per sq. yd.	13.55	27.85	11.76	183.80	236.96	14.26	37.80	21.00	199.54	272.60
Asphalt at \$2.25 per sq. yd. with 2-ft. cement gutter at \$1.62 per sq. yd.	13.55	27.85	11.76	170.36	223.52	14.26	37.80	21.00	176.40	249.46

COMPARATIVE COSTS OF PAVEMENTS FOR 60-FOOT STREET, ALREADY GRAVELED OR MACADAMIZED, INCLUDING COST OF GRADING DOWN TO REQUIRED SUBGRADE, LAYING OF CEMENT WALK AND CURB, AND WITH 5 PER CENT ADDED TO ALLOW FOR COST OF ENGINEERING, ADVERTISING, AND INSPECTION—BASED ON PREVAILING PRICES, 1908—Continued.

Kind of Pavement.	Cost for 1/4 intersection of 36-foot roadway.					Cost for 50-foot lot fronting on 36-foot roadway.				
	Cost of grading street to required subgrade at 75c per cu. yd.	For laying cement sidewalk to replace wood at 12c per sq. ft.	For laying cement curb to replace wood curb at 40c per lin. ft.	Cost of laying pavement.	Total cost for full improvement.	Cost of grading street to required subgrade at 75c per cu. yd.	For laying cement sidewalk to replace wood at 12c per sq. ft.	For laying cement curb to replace wood curb at 40c per lin. ft.	Cost of laying pavement.	Total cost for full improvement.
Gravel at \$2.25 per cu. yd.	\$19.14	\$16.13	\$9.24	\$57.41	\$101.92	\$21.82	\$37.80	\$21.00	\$65.45	\$146.07
Macadam at \$2.75 per cu. yd.	19.14	16.13	9.24	70.17	114.68	21.82	37.80	21.00	79.99	160.61
Hassam at \$2.00 per sq. yd.	11.11	16.13	9.24	178.71	215.19	13.16	37.80	21.00	210.00	281.96
Bitulithic at \$2.25 per sq. yd. with drain tile at 12c per lin. ft.	11.11	16.13	9.24	204.07	240.55	13.16	37.80	21.00	242.55	314.51
Asphalt at \$2.25 per sq. yd. with 2-ft. brick gutter at \$3.60 per sq. yd.	15.52	16.13	9.24	208.28	249.17	18.35	37.80	21.00	251.99	329.14
Asphalt at \$2.25 per sq. yd. with 2-ft. cement gutter at \$1.62 per sq. yd.	15.52	16.13	9.24	196.42	237.31	18.35	37.80	21.00	228.90	306.05

STREETS OPENED, WIDENED AND EXTENDED DURING THE YEAR 1908

No.	Name of Street.	Limits of Extension.	Lgth. in ft.
1	Benton street	North line of Wm. Irving's D. L. C. to east line Goldsmith st.	434
2	Courtenay street	South end Courtenay st. to northerly line of Girard st.	60
3	"D" st. (in Tibbetts' Hmstd.)	Southwest line O. & C. R. R. right of way to n. e. line of same	36
4	Division street	S. ext. e. l. Marguerite ave. to tp. line bet. Rs. 1 and 2 E., W. M.	2,357
5	Eighteenth street, East	North line of Highland Park to south line of Howe st.	57
6	Emerald street	North line Pippin st. to south line of Willis blvd.	2,433
7	Fourteenth street, East	Southwest line of O. & C. R. R. right of way to n. e. line same	42
8	Fourteenth street, East	North line Center st. to south line Franklin st.	1,906
9	Gladstone avenue	E. l. Bryant st. to easterly line S. P. R. R. car shops tract	810
10	Harrison avenue	Nr. 1st and Lane sts. to connect with Harrison av. in 1st st. Ter.	943
11	Hawthorne avenue	W. l. sec. 6, tp. 1 S., R. 2 E., W. M., to w. l. East 55th st.	3,460
12	Nineteenth street, East	South line Powell st. to south line Edgar st., extd. easterly	238
13	Oak street, East	W. l. lt. 5, blk 6, E. J. Murphy's ad. to E. P., to w. l. Base L. add.	355
14	Pearl street	East line Mt. Tabor Villa annex to east line Hibbard st.	93
15	Patton avenue	North line Portland blvd. to south line Columbia blvd.	5,542
16	Seventh street, East	North line Ainsworth ave. to south line Holman st.	607
17	Seventh street, East	South line blk. 23, Woodlawn, to south line Magnolia st.	100
18	Seventh street, East	North line Brazee st. to south line Freemont st.	2,792
19	Seventh street, East	South line Brooklyn st. to north line lot 2, Riverside Hmstd.	1,674
20	Sixth street, East	North line blk. 1, Woodlawn Hts., extd. w. to s. l. Dekum ave.	620
21	Stark street, East	Range line bet. ranges 1 and 2 E., W. M., to east line Scott ave.	5,465
22	Thirtieth street, East	North line lot "P," E. P. Hts., to north line Ellsworth st.	156
23	Thirty-second street, East	North line Brooklyn st. to south line Ellsworth st.	200
24	Thirty-second street, East	North line lot "N," E. P. Hts., to north line Ellsworth st.	156
25	Thirty-third street, East	North line lot "M," E. P. Hts., to north line Ellsworth st.	156
26	Thirty-fourth street, East	North line lot "L," E. P. Hts., to north line Ellsworth st.	156
27	Thirty-fifth street, East	North line lot "K," E. P. Hts., to north line Ellsworth st.	156
28	Thirty-ninth street, East	North line E. Salmon st. to south line East Stark st.	1,730
29	Tillamook street	E. l. lot 18, blk. 10, Broadway add. extd. n. to w. l. county road	209

30	Twenty-second street, East	South line Powell st. to south line of Bush st. extd. east	1,255
31	Twenty-sixth street, East	North line Belmont st. to south line East Stark st.	987
32	Twenty-sixth street, East	North line Brush's add. to south line Division st.	1,674
33	Twenty-sixth street, East	North line Hawthorne ave. to n. l. Dolan's add., extd. westerly	624
34	Twenty-seventh street, East	North line lot "S," E. P. Hts., to north line Ellsworth st.	156
35	Virginia street	South terminus of Virginia st. to Taylor's Ferry road	1,129
36	Williams avenue	South line lot 2, Piedmont, to south line Dekum ave.	676
Total			39,444

STREET WORK DONE BY THE FIELD DEPUTIES OF THE ENGINEERING DEPARTMENT DURING 1908

	Lin. Ft.	Miles.
Cross-sectioning and staking for various kinds of pavements and grading under preparation for estimate	403,354	76.393
Cross-sectioning and staking for various kinds of pavements and grading under construction....	299,185	56.664
Superintending and restaking work under construction	1,235,062	233.913
Running levels for grades.....	451,984	85.603
Running levels for bench marks, establishing lines for streets	161,989	30.680
Surveys for streets, opened, widened or extended..	206,166	39.046
Staking for sidewalks, under ordinance.....	326,450	61.823
Staking for sidewalks, under permit.....	156,279	29.598
Staking and leveling for sewers under preparation for estimate; staking and leveling for sewers under construction	123,081	23.311
Lines run for establishing permanent monuments..	183,820	34.814
Cross-sectioning and staking for various kinds of pavements and grading under permit.....	104,675	19.825
Total	3,652,045	691.675

SUMMARY OF STREET WORK DONE DURING 1908 BY OR- DINANCE

	W. Side.	E. Side.	Total.
Excavation, cubic yards.....	34,393	611,629	646,022
Embankment, cubic yards.....	7,539	341,652	349,191
Gravel, cubic yards.....		44,279.2	44,279.2
Macadam, cubic yards.....	3,364.1	38,557.4	41,921.5
Concrete, cubic yards.....		1,297.37	1,297.37
Artificial stone sidewalk, sq. ft..	81,126.5	1,327,518.8	1,408,645.3
Wood sidewalk without curb, lineal feet	696	113,419.18	114,115.18
Gravel sidewalk, without curb, lineal feet		3,436.7	3,436.7
Artificial stone curb, lin. ft.....	16,329.68	226,098.3	242,427.98
Wood curb, lin. ft.....	786	124,038.49	124,824.49
Wood crosswalk, lin. ft.....	806.25	51,673.9	52,480.15
Box gutter, lin. ft.....		9,199.5	9,199.5
Open box gutter, lin. ft.....		816.3	816.3
Stone gutter, lin. ft.....	2,970.1	32,515.4	35,485.5
Plank roadway, lin. ft.....		686	686
Elevated roadway, steel and concrete bridges, lin. ft.....		966	966
Stone block header, double row, lineal feet	4,228.7	4,105.9	8,334.6
Tile, 3-in. diam, lin. ft.....	40,778.4	34,867.97	75,646.37
Vitrified pipe, 6-in. diam. lin. ft..	1,924	2,163	4,087
Iron pipe, lin. ft.....	46		46
Lumber, B. M.....		44,213.9	44,213.9
Number of inlets.....	59	87½	146½
Stone blk. pvm't, new, sq. yds..	13,381.3	16,387	29,768.3
Bitulithic, sq. yds.....	69,661.85	65,952.1	135,613.95
Asphalt, sq. yds.....	36,530.2	78,709.1	115,239.3
Concrete, sq. yds.....	13,442.2	13,943.5	27,385.7
Vitrified brick, sq. yds.....	4,121.5	1,438.4	5,559.9
Lin. ft. full width improvement.	36,369	238,621	274,990
Miles full width improvement..	6.888	45.193	52.081
Actual cost of improvement.....	\$376,863.91	\$1,373,989.28	\$1,750,853.19

COST OF STREET AND SEWER WORK UNDER CONTRACT JANUARY 1, 1909, NOT ACCEPTED

Streets	\$ 934,109
Sewers	270,687
Total	\$1,204,796

TABLE SHOWING AMOUNT EXPENDED BY THE CITY ENGINEER'S DEPARTMENT FOR SALARIES, LABOR AND MATERIALS FOR THE YEAR 1908—GENERAL FUND

Month.	Office salaries.	Salaries of surveying parties.	Salary of general inspector of sewers.	Amount paid inspectors of streets, walks and pipe sewers.	Amount paid inspectors of stone and brick sewers.	Amount paid sewer repairs and teamsters.	Amount paid for care of teams and automobile.	Amount paid for supplies for department.
January	\$ 2,071.13	\$ 2,464.52	\$ 125.00	\$ 911.00	\$ 340.00	\$ 760.00	\$ 93.93	\$ 103.95
February	2,080.00	2,800.00	125.00	936.50	297.00	747.06	69.81	157.33
March	2,080.00	2,795.16	125.00	1,144.50	364.00	760.00	70.00	119.75
April	2,180.00	2,796.25	125.00	1,324.50	341.00	880.00	66.12	269.25
May	2,090.00	2,767.74	125.00	1,587.38	220.00	1,113.23	71.06	112.70
June	2,180.00	2,800.00	125.00	1,819.87	250.00	1,005.00	65.63	176.40
July	2,259.67	3,260.48	125.00	2,171.63	314.00	1,038.33	93.85	220.06
August	2,274.19	3,300.00	125.00	2,224.50	268.69	965.64	64.75	107.22
September	2,151.32	3,145.00	125.00	2,258.26	281.88	832.50	62.01	120.60
October	2,163.87	3,028.88	125.00	2,068.13	299.69	760.00	86.93	113.30
November	2,190.00	3,129.17	125.00	1,809.00	282.19	835.00	115.48	95.57
December	2,090.00	2,900.00	125.00	1,521.00	295.00	923.30	205.25	75.70
Totals	\$25,810.19	\$35,187.20	\$1,500.00	\$19,776.27	\$3,553.45	\$10,619.96	\$1,064.82	\$1,671.83

TABLE SHOWING AMOUNT EXPENDED BY THE CITY ENGINEER'S DEPARTMENT FOR SALARIES, LABOR AND MATERIALS FOR THE YEAR 1908—GENERAL FUND—Continued

Month.	Amount paid for printing for department.	Amount paid for materials for repair of sewers.	Amount paid for materials for cement testing.	Cost of equipment and material and labor for installation of fountains.	Amount paid for recording of plats and painting street signs.	Amount paid for transportation and bridge work.	Totals.
January	\$ 43.00	\$ 192.44	\$ 8.10	\$ 4.00	\$ 20.50	\$ 86.12	\$ 7,223.69
February	75.00	296.62	31.65	.....	3.00	125.25	7,744.22
March	40.00	245.07	.75	4.00	10.00	154.70	7,912.93
April	75.00	419.55	2.20	7.23	.....	75.00	8,561.10
May	31.25	271.20	1.50	457.73	37.95	150.00	9,036.74
June	64.20	400.54	.90	64.97	.....	682.95	9,635.46
July	32.50	233.22	4.85	84.45	73.40	150.00	10,061.34
August	20.75	193.16	.....	1.50	47.10	75.00	9,667.50
September	23.75	400.79	6.50	.....	.....	75.00	9,482.62
October	78.25	271.54	6.20	7.00	42.40	150.00	9,201.19
November	.....	158.86	.75	4.00	83.80	150.00	8,978.82
December	21.75	193.45	.90	.....	98.95	150.00	8,600.30
Totals	\$505.45	\$3,276.44	\$64.30	\$634.88	\$417.10	\$2,024.02	\$106,105.91

TABLE SHOWING AMOUNT EXPENDED BY THE CITY ENGINEER'S DEPARTMENT FOR SALARIES, LABOR AND MATERIALS FOR YEAR 1908—STREET REPAIR FUND

Month.	Salary of one survey party.	Salary of clerk and four general inspectors.	Amount paid bridge carpenters.	Amount paid street repairers and teamster.	Amount paid cement crew.	Amount paid traction engineers.	Amount paid for team hire.	Amount paid for fuel, oil and repairs of four road rollers.
January	\$ 545.00	\$ 560.00	\$ 590.50	\$ 1,275.00	\$ 361.26	\$ 375.00	\$ 445.00	\$ 346.88
February	550.00	560.00	550.00	1,330.00	338.76	354.60	307.50	539.00
March	530.65	560.00	662.99	1,610.00	410.65	354.60	391.50	472.70
April	550.00	560.00	656.00	1,525.00	380.02	470.48	372.50	390.25
May	550.00	560.00	624.06	1,537.50	102.50	427.28	365.00	299.30
June	550.00	560.00	563.25	1,621.25	397.50	472.05	375.00	319.95
July	550.00	560.00	609.75	1,695.00	465.00	511.20	370.00	299.55
August	550.00	560.00	489.75	1,629.06	120.00	496.35	380.00	257.20
September	550.00	560.00	544.00	1,625.00	135.00	532.35	315.00	322.25
October	550.00	560.00	594.00	1,655.00	452.50	495.90	400.00	276.84
November	485.00	560.00	550.00	1,555.00	345.64	409.05	352.50	213.35
December	475.00	560.00	594.00	1,826.25	346.25	437.40	380.00	168.92
Totals	\$6,435.65	\$6,730.00	\$7,028.30	\$18,904.06	\$3,855.08	\$5,339.26	\$4,454.00	\$3,906.19

TABLE SHOWING AMOUNT EXPENDED BY THE CITY ENGINEER'S DEPARTMENT FOR SALARIES, LABOR AND MATERIALS FOR YEAR 1908—STREET REPAIR FUND—Continued

Month.	Amount paid for materials for crosswalks and gutters.	Amount paid for materials for repairs of roadways.	Amount paid for materials for repairs of elevated roadways, bridges, fills.	For materials for constructing sidewalks as ordered by Ex. Board.	For maintenance and repair of hard surface pavements.	Amount paid for tools, nails and hardware and equipment.	Totals.
January	\$ 676.34	\$ 1,918.52	\$ 884.74	\$ 730.05	\$1,343.33	\$ 33.13	\$10,087.75
February	801.29	2,149.50	314.62	465.73	699.97	45.45	9,006.42
March	667.89	3,257.50	362.23	621.80	.....	76.05	9,978.56
April	988.54	478.40	164.75	560.23	286.72	13.95	7,396.84
May	670.07	492.65	321.32	169.69	412.18	28.46	6,580.01
June	611.14	155.00	348.27	470.90	390.50	41.50	6,874.81
July	289.44	114.45	350.57	676.69	285.44	147.55	6,926.14
August	194.61	583.16	227.55	200.88	82.80	114.55	5,885.91
September	155.70	310.00	200.85	236.48	.....	52.39	5,539.02
October	692.01	478.97	437.02	532.91	2,213.23	57.50	9,395.88
November	548.29	320.85	448.82	453.29	1,585.96	38.40	7,866.15
December	340.02	2,789.40	306.33	199.65	605.47	47.50	9,076.19
Totals	\$6,635.34	\$13,048.40	\$4,367.07	\$5,318.30	\$7,905.60	\$696.43	\$94,613.65

LIST OF PROPERTY IN CHARGE OF THE CITY ENGINEER'S
DEPARTMENT, DECEMBER 31, 1908

Furniture and supplies

Four roll-top desks, 3 flat-top desks, 4 small desks, 6 drawing tables, 13 map and record cases, 2 wardrobes, 7 filing cabinets, 37 chairs, 7 stools, 1 copying press and stand, 1 typewriter and desk, 5 waste baskets, 7 cuspidors, 3 umbrella holders, 8 lockers for instruments, 2 small step ladders, 19 desk lights and shades, 9 hanging lights and shades, 1 safe, records, permit books, blanks and office stationery.

Surveying and Drawing Instruments and Cement Testing Apparatus

One level, 8 transits, 9 level rods, 4 steel tapes (100 feet), 11 steel tapes (50 feet), 1 hand level, 10 axes, 4 brush axes, 26 plumb bobs, 2 bridge plumb bobs, 1 pick, 1 shovel, 10 triangles, 10 scales, 1 steel straight edge, 3 T squares, 2 protractors, 1 set drawing instruments, 3 pair shears, 1 pair beam compasses, 2 French curves, 62 briquette glasses, 1 Riehle boiling apparatus, 2 buckets, 1 brush, 1 cement sampler, 2 Fairbanks avoirdupois scales, 1 Fairbanks gram scales, 55 fruit jars (half-gallon), 1 Fairbanks testing machine, 3 4-gang molds, 12 single molds, 1 measuring mold, 1 measuring flask, 1 hammer, 100 briquette pans, 1 Riehle thermometer, 1 Riehle Vicat needle, 2 pair gloves, 1 saw, 6 screens, 3 trowels.

Tools and Equipment for General Repair Work

One automobile, 4 steam rollers, 2 horse rollers, 3 sprinkling wagons, 1 platform spring wagon, 1 buggy, 1 repair wagon, 1 set double harness, 1 set single harness, 3 horses, 3 horse covers, 2 tool wagons, 3 tool boxes, 1 flat-bottom boat, 1 adz, 10 augers, 2 cold chisels, 6 crowbars, 4 pinchbars, 3 stone hammers, 450 feet fire hose, 3 grindstones, 2 dollies, 4 sledge hammers, 3 paving hammers, 1 carpenter's hammer, 4 hand saws, 3 chisels, 2 hand trucks, 7 hand axes, 1 sewer hook, 14 hoes, 14 jackscrews, 4 jack bars, 12 lanterns, 2 ladders, 4 mattocks, 3 oil cans, 3 padlocks, 6 peavies, 33 picks, 4 pike poles, 2 pitchforks, 1 pump, 4 rakes, 250 feet of rope ($\frac{3}{4}$ -inch), 1 snatch block, 80 feet manila line ($1\frac{1}{2}$ -in.), 75 feet rope ($\frac{1}{2}$ -in.), 75 feet rope (1-in.), 3 saw clamps, 37 dirt shovels, 3 sewer shovels, 1 post-hole shovel, 1 sewer drag, 1 scythe, 2 mauls, 1 spirit level, 3 squares, 3 tampers, 3 trowels, 1 metallic tape, 1 sewer windlass, 6 buckets, 14 wheelbarrows, 7 wrenches, 3 blocks and falls, 4 sling chains, 32 staging bolts, 14 lantern globes, 1 ship auger, 13 crosscut saws, 1 wire screen, 1 mixing box, 200 feet curb forms, 400 feet sidewalk forms, 10 pick handles, 1 5-foot iron radius form, 1 3-foot iron radius form, 100 feet canvas cover, 1 jointer, extra heavy, 1 brick hammer, 1 6-pound hammer, 2 sledge handles, 1 filing spade, 1 saw set, 1 curry comb, 2 brushes, 2 headlight lanterns, 230 feet sewer rods, 1 grader scraper, No. 2, 14 axes.

ANNUAL REPORT

—OF—

CITY ATTORNEY

To the Honorable Mayor and Council of the City of Portland.

Gentlemen: I hereby submit the annual report of the City Attorney of the City of Portland for the year ending December 31, 1908.

During the year there were rendered by the City Attorney to the different departments of the city 174 formal written opinions. During said time the City Attorney has written 596 other official communications.

During the year 1908 there were tried in the Municipal Court 7,669 cases.

CASES DISPOSED OF DURING THE YEAR 1908.

Edith E. Miller et al.

vs.

The City of Portland.

Suit to enjoin the collection of the assessment for the improvement of Denver avenue from the north line of Killingsworth avenue to the south line of Portland Boulevard. Demurrer to second amended complaint. Decree for plaintiff.

City of Portland

vs.

Amelia Kellar.

Appeal from report of viewers in extension of Portland boulevard from west line of Vancouver avenue to west line of Union avenue. Dismissed.

City of Portland

vs.

Isabella M. A. Barnes.

Appeal from report of viewers in re establishment of new street. Judgment awarding excess damages.

Isabella M. A. Barnes

vs.

City of Portland.

Writ of review in re establishment of new street. Decree for plaintiff.

- Mount Hood Railway & Power Co.
vs.
City of Portland.
Dismissed.
- Same vs Same.
Judgment for plaintiff.
- Francis I. McKenna
vs.
City of Portland.
Suit to annul charter amendments. Decree in favor of city in the Supreme Court.
- W. Y. Masters
vs.
City of Portland.
Involving the question of water rates. Decree for plaintiff.
- Margaret Holland
vs.
City of Portland.
Appeal from report of viewers in the opening of Mill street. Dismissed.
- City of Portland
vs.
Louis Zimmerman.
Writ of habeas corpus in prosecution for maintaining slaughter house within the city limits. Judgment for city in Circuit Court. Reversed by Supreme Court.
- City of Portland
vs.
Frank L. Smith Meat Company.
Appeal from Municipal Court. Judgment for defendant.
- City of Portland
vs.
A. F. Severance.
Appeal from Municipal Court; violation of plumbing ordinance. Defendant discharged.
- City of Portland
vs.
Tom Fallon.
Appeal from Municipal Court. Appeal dismissed by defendant.

- William Donovan et al.
vs.
City of Portland.
Injunction against letting contract for improvement of Belmont street with bitulithic pavement. Demurrer to complaint sustained. Suit dismissed.
- City of Portland
vs.
Herman Burkhardt.
Appeal from Municipal Court. Resisting an officer. Dismissed.
- City of Portland
vs.
L. D. Truman and Ashley & Rumelin.
Suit by city to compel defendants to interplead in the matter of assignment of certain warrants. Suit settled and dismissed.
- City of Portland
vs.
Nick Battich.
Appeal from Municipal Court. Assault and battery. Defendant fined \$60.
- City of Portland
vs.
Ellis G. Hughes.
Appeal from viewers' report extension of East Twenty-ninth street from Lot "Q," East Portland Heights, to the north line of Ellsworth street. Dismissed by defendant.
- City of Portland
vs.
Ellis G. Hughes.
Appeal from viewers' report extension of Clinton street from west line of Ravenswood to East line of Thirty-seventh street. Dismissed by the defendant.
- City of Portland
vs.
Ellis G. Hughes.
Appeal from viewers' report extension of East Twenty-eighth street from north line of Lot "R," East Portland Heights, to north line of Ellsworth street. Dismissed by the defendant.
- Jeremiah Worick
vs.
City of Portland and O. R. & N. Co.
Suit to quiet title. Decree for plaintiff.

- James C. Stewart
vs.
City of Portland.
Suit to enforce contract for city printing. Decree in favor of city.
- Ammi S. Nichols
vs.
The Hawthorne Estate and the City of Portland.
Suit to enjoin sale of certain warrants. Case dismissed by plaintiff.
- City of Portland
vs.
George Watson.
Appeal from Municipal Court. Defendant fined \$5.
- Joseph Day
vs.
City of Portland.
Action to recover salary. Judgment for plaintiff.
- City of Portland
vs.
James Russell.
Appeal from Municipal Court. Dismissed by defendant.
- City of Portland
vs.
Ah Sam.
Writ of review from Municipal Court. Judgment for defendant.
- City of Portland
vs.
Smyser.
Appeal from Municipal Court. Appeal dismissed.
- Riverview Cemetery Association
vs.
City of Portland.
Suit to restrain collection of assessment for improvement of Front street. Decree for plaintiff.
- City of Portland
vs.
Adam Diller.
Appeal from viewers' report extension of East Salmon street. Judgment in favor of defendant for \$1,200.

- C. W. Nottingham & Co.
vs.
City of Portland.
Suit to restrain prosecution for violation of the building ordinance. Decree for plaintiff.
- M. W. Parelius
vs.
City of Portland.
Suit to restrain the improvement of East Morrison street. Decree in favor of city.
- Joseph Reiff
vs.
City of Portland.
Writ of review of proceedings of Council for the improvement of Seventeenth street. Decree for plaintiff.
- City of Portland
vs.
Mary Robertson.
Appeal from report of viewers, opening of East Seventeenth street. Dismissed by defendant.
- CASES PENDING IN THE SUPREME COURT OF THE STATE OF OREGON.**
- Long
vs.
City of Portland.
Appeal from Circuit Court to enjoin enforcement of vehicle tax ordinance. Decree for plaintiff; rehearing denied.
- Ellis G. Hughes et al.
vs.
City of Portland et al.
Writ of review of proceedings of the Council for reassessment for the improvement of Yamhill street. Briefs filed.
- John Michell et al.
vs.
City of Portland.
Writ of review of proceedings of Council for reassessment for improvement of Goldsmith street. Argued and submitted; awaiting decision.

James W. Applegate et al.
vs.

City of Portland.

Writ of review of proceedings of Council for the improvement of Albina avenue. Set for trial.

W. H. H. Morgan et al.
vs.

City of Portland et al.

Writ of review of the proceedings of Council for reassessment for improvement of River street. Brief filed.

Wm. Beckett et al.
vs.

City of Portland et al.

Suit to enjoin collection of assessment for Irvington sewer. Set for trial.

In the Matter of the Application of J. C. Mann and A. A. Kadderly for writ of habeas corpus involving constitutionality of vehicle tax ordinance. Abstract filed.

CASES PENDING IN THE CIRCUIT COURT OF THE STATE OF OREGON, FOR THE COUNTY OF MULTNOMAH.

City of Portland
vs.

B. W. Fisher.

Writ of review of proceedings of Council for the improvement of Front street.

J. O. Spencer
vs.

City of Portland.

Writ of review of proceedings of the Council for the improvement of Mississippi avenue. Argued and submitted.

George H. Cook
vs.

City of Portland.

Writ of review of proceedings of Council for the improvement of Karl street.

A. S. Nichols
vs.

City of Portland.

Suit to restrain collection of assessment for the improvement of Union avenue.

German Savings & Loan Society
vs.

City of Portland.

Suit to quiet title. Argued and submitted.

J. Eder
vs.

City of Portland.

Writ of review of proceedings of the Council for the improvement of Hooker street.

Portland Cordage Company
vs.

City of Portland.

Suit to enjoin collection of assessment for Tanner Creek sewer.

Oregon Real Estate Company
vs.

City of Portland.

Suit to enjoin collection of assessment for improvement of Clackamas street.

L. O. Ralston
vs.

City of Portland.

Suit to quiet title.

German Savings & Loan Society
vs.

City of Portland.

Suit to quiet title.

Carbolineum Preserving Company
vs.

City of Portland.

Action to recover on warrants issued for improvement of Albina avenue.

City of Portland
vs.

Jacob Kamm.

Appeal from viewers' report of the extension of Main street.

Taylor et al.
vs.

City of Portland.

Writ of review of proceedings of the Council, improvement of Dekum avenue from Piedmont Park to Columbia Heights.

- The Espey Estate Company
vs.
City of Portland.
Suit to restrain city from laying sidewalk.
- John Tait
vs.
City of Portland.
Suit to restrain collection of vehicle tax.
- City of Portland
vs.
S. R. Hochfield.
Appeal from reassessment for the improvement of East Oak street.
- City of Portland
vs.
Investment Company.
Appeal from viewers' report, extension of Jessup street.
- City of Portland
vs.
G. G. Gammons.
Appeal from viewers' report, extension of Villard avenue.
- J. R. O'Neil & Co.
vs.
City of Portland.
Action to recover on warrants.
- Joseph Day
vs.
City of Portland.
Suit to enjoin Police Committee from reducing rank of officials.
- Mary Phelps Montgomery
vs.
City of Portland.
Suit to restrain the opening of Benton street.
- City of Portland
vs.
Ah Sing et al.
Writ of review of Municipal Court.
- John P. Sharkey Company
vs.
City of Portland.
Set for trial.

- Inman-Poulsen Lumber Company
vs.
City of Portland.
Suit to restrain improvement of East Sixth street.
- City of Portland
vs.
George West et al.
Appeal from reassessment for improvement Grand avenue. Argued and submitted to court.
- Bell C. Preston
vs.
City of Portland.
Suit to recover on warrants.
- People's Market Association
vs.
City of Portland.
Involving franchise on block 132.
- Carson
vs.
City of Portland.
Suit to restrain collection of assessment for improvement of Front street.
- Investment Company
vs.
City of Portland.
Suit to restrain the letting of contract for improvement of Cleveland avenue.

PENDING IN THE UNITED STATES CIRCUIT COURT.

- Southern Pacific Company
vs.
City of Portland.
A suit to enjoin the prosecution of plaintiff for operating locomotives on Fourth street.
- Number of cases disposed of during 1908..... 34
- Total number of cases pending..... 38

Respectfully submitted,
J. P. KAVANAUGH, City Attorney.

ANNUAL REPORT OF BUILDING INSPECTOR

TABULATED STATEMENT OF PERMITS ISSUED YEAR ENDING DECEMBER 31, 1908

January 2, 1909.

To the Honorable Mayor and Members of the Executive Board, City of Portland.
Gentlemen: I herewith submit the report of the Building Department for the year ending December 31, 1908.

Month.	Repairs.		Sheds and Barns.		Dwellings, East Side.		Dwellings, West Side.		Buildings, Classes A, B, C.	
	Permits.	Value.	Permits.	Value.	Permits.	Value.	Permits.	Value.	Permits.	Value.
January	62	\$ 27,850	33	\$ 7,955	177	\$ 309,800	5	\$ 41,200	9	\$ 203,540
February	105	61,625	48	10,775	211	407,450	17	36,150	8	17,600
March	124	47,115	57	11,020	294	501,750	29	66,850	7	99,900
April	145	80,435	80	24,850	282	529,025	21	55,050	6	58,800
May	100	76,795	56	14,900	171	335,750	16	64,300	6	105,000
June	117	58,515	41	12,725	174	322,275	20	62,500	5	61,050
July	134	79,636	76	41,980	181	323,800	33	96,450	7	122,000
August	127	58,500	77	35,545	163	323,500	19	61,600	8	98,050
September	124	114,185	60	18,520	210	400,350	22	68,450	5	183,100
October	100	49,270	52	13,460	170	300,600	11	28,000	8	182,850
November	73	25,785	51	16,960	147	274,050	2	8,000	3	505,000
December	48	23,370	30	9,005	149	283,350	9	23,900	8	388,050
Totals	1,259	\$703,081	661	\$217,695	2,329	\$4,318,700	204	\$612,450	80	\$2,024,940

Tabulated Statement of Permits Issued Year Ending December 31, 1908—Continued

Month.	Frame Business Blocks.		Reinforced Concrete.		Excavations		Totals.	
	Permits.	Value.	Permits.	Value.	Permits.	Value.	Total value.	Total permits.
January	11	\$ 33,700	1	\$ 1,500	..	.....	\$ 625,545	298
February	22	124,800	1	175,000	1	400	833,800	413
March	26	118,800	2	2,200	5	4,210	851,845	544
April	34	218,600	4	9,600	4	4,050	980,410	576
May	24	152,700	1	5,500	..	.....	754,945	374
June	21	272,500	4	33,400	3	11,100	841,065	385
July	21	264,200	4	103,700	3	6,600	1,038,366	459
August	13	88,400	2	102,000	3	4,800	772,395	412
September	16	127,050	4	53,600	4	7,100	972,355	445
October	18	95,975	7	159,000	2	600	829,755	368
November	14	97,350	5	8,450	2	9,000	944,595	297
December	22	192,500	6	25,300	6	14,600	960,075	278
Totals	242	\$1,786,575	41	\$679,250	33	\$62,460	\$10,505,151	4,849

COMPARISON OF PERMITS ISSUED BY MONTHS—YEARS 1907—1908

	1907.		1908.	
	Permits.	Valuation.	Permits.	Valuation.
January	218	\$ 604,475	298	\$ 625,545
February	278	886,748	413	833,800
March	295	659,729	544	851,845
April	389	1,526,977	576	980,410
May	481	1,152,732	374	754,945
June	382	865,250	385	841,065
July	374	762,371	459	1,038,366
August	389	881,360	412	772,395
September	362	943,300	445	972,355
October	422	645,585	368	829,755
November	162	199,210	297	944,595
December	138	319,245	278	960,075
Totals	3,890	\$9,446,982	4,849	\$10,505,151

Building permits have been issued during the past years as follows:

	Permits.	Valuation.
1900.....	392	\$ 944,985
1901.....	745	1,529,143
1902.....	1,244	2,730,660
1903.....	1,628	4,281,056
1904.....	1,720	4,029,225
1905.....	2,318	4,183,368
1906.....	3,166	6,902,032
1907.....	3,890	9,446,982
1908.....	4,849	10,505,151

During the year something over 10,000 visits have been made, 4,849 new and old buildings inspected, over 1,000 violations of the ordinances were rectified, and 65 cases prosecuted in the Municipal Court.

The cost of maintaining the department during the past year was \$8,313.25, while the amount collected from building permits was \$6,914, so that the department has been practically self-supporting.

During the year, twenty frame buildings inside the fire limits have been condemned, all of which, with one exception, have been torn down and removed, or are at present being demolished.

The past year, in spite of the financial depression, shows a decided and gratifying increase over 1907, both in the number of permits issued and the valuation of the improvements. Reference to the comparative table, which I herewith submit, shows that building operations

since 1900 have had a steady and rapid advance. The indications are that operations for 1909 will far exceed those of 1908. The annexation of the Mt. Scott district alone will make a big addition to the amount of permits issued.

Approximately 5,000 permits were issued in 1908. This means that on an average less than two hours could be spent on the checking of plans and the inspection of each building during construction. This is scarcely sufficient for the ordinary residence, considering the time consumed in reaching the building; while for the larger business buildings it is entirely inadequate. Plans for some of these buildings require the attention of one man for two or three days to properly check and approve them. While on the most of these buildings an inspection should be made at least once every day, at present the best we can do is about one inspection every two weeks. With more frequent inspections a large number of the minor violations of the ordinance, which occur in construction of large buildings, would be noticed before they had proceeded so far that it would be impossible to rectify them, as is now the case.

The work accomplished by the Building Inspection Department of Portland compares very favorably with the other large towns on the Coast, especially when the small number of the force employed is considered.

Los Angeles has a department which employs a force of twelve men; San Francisco has twenty-five men in its department, while Seattle has thirteen. When building operations actively open up in the spring, I think it will be advisable to add one more man to our force. Such an addition would allow us to make about one-third more inspections than we are making at the present time.

As I have before stated, the department has been practically self-supporting, and the receipts from permits next year will undoubtedly far exceed the record of any year in the past. Even though it were necessary to appropriate additional money for such additional inspection, I think it would be money for which the city would get value received.

The reduction of the fire risks and the general improvement in building construction is of untold value to a city the size of Portland, and one which is making such rapid growth as it is at present.

Respectfully submitted,

G. E. DOBSON, Building Inspector.

ANNUAL REPORT

—OF—

Street-Cleaning and Sprinkling Department

Portland, Oregon, January 4, 1908.

To the Honorable Mayor and Executive Board, City of Portland.

Gentlemen: I herewith submit a report of the cost of operating the Street-Cleaning and Sprinkling Department for the year 1908, under the direction and control of the committee of the Executive Board having the management of said department.

The total amount actually expended during the year 1908 was \$126,909.60 (hereinafter set out in detail), which is \$23,090.40 less than the sum appropriated by the Common Council for that year.

This unexpended appropriation was for the purchase of additional ground adjoining the City Barn, on Sixteenth street, which was not bought, and for the hire of additional laborers for cleaning and sprinkling streets on the east side of the river, and who were not employed because there was no equipment available for their use; neither was there any extra barn room for storing new equipment in case it was purchased.

The following detailed statement shows for what purpose the annual appropriation for 1908 was expended:

Laborers	\$ 81,873.75
Horse feed	9,963.70
New equipment	2,270.00
Purchase of horses	5,810.00
Veterinary surgeon	240.00
Sawdust	140.00
Blacksmithing	537.20
Horseshoeing	1,803.20
Split bamboo for power brooms.....	1,082.95
Harness	1,285.20
Repairs to city barn	941.05
Electric car sprinkler	4,045.00
Hired teams on sprinklers.....	9,746.25
Hardware	405.60

Drugs	140.40
Paints and oil	441.15
Lumber	1,087.05
Rent of lots adjoining city barn.....	260.00
Oil (for oiling streets).....	2,060.60
Sand for oiled streets	656.50
Miscellaneous	2,120.00
Total	\$126,909.60

RECOMMENDATIONS.

The cost of cleaning and sprinkling streets at remote distances from a city barn is almost prohibitive, due to the fact that almost the entire working day is consumed in going to and from the barn to the place of work. To obviate this it is necessary to purchase a suitable piece of ground south of Hawthorne avenue and erect thereon a city barn, to be used as a base from which to operate a force for cleaning and sprinkling streets in the southeastern part of the city. Therefore, I respectfully recommend that ground be purchased and a barn erected thereon as soon as possible.

During the summer of 1908 the first practical test was made by the city of laying dust on streets with oil instead of water. The success of this experiment in the city was far beyond the expectations of the committee; for, although the committee knew that the use of oil for laying dust had proved a great success in dry climates, like that of Southern California, still they were somewhat skeptical of its success in our city, where rain is so frequent, and at times so heavy, and they were not at all prepared for the splendid success that followed their first trial of oil on our streets.

While the cost of sprinkling with oil at first seems very expensive, it is not so in fact, because after a street is once properly oiled, and at the proper time, it will be sufficient to last throughout our entire summer; while if water is used for sprinkling it will evaporate in two hours, affording relief therefrom for only a small fraction of the day, because the sprinkling is seldom done more than twice in one day.

The advantages of using oil are many—besides its lasting qualities it also creates a much cooler atmosphere, and does not reflect the glare of the sun. As an evidence of the popularity and merits of oil for sprinkling streets, it is only necessary to call your attention to the number of people who, at their own private expense, caused streets in front of their homes to be sprinkled with oil, notwithstanding those same streets were sprinkled with water twice a day.

Several of the main traveled county roads leading to the city were also oil sprinkled by the county officials, and proved highly satisfactory to all traveling said roads, either on business or pleasure.

In view of the satisfactory results obtained from the use of oil for sprinkling, I respectfully recommend that a much larger area be covered in 1909.

Respectfully submitted,
ALEX DONALDSON,
Superintendent Street-Cleaning Department.

ANNUAL REPORT

—OF—

HEALTH DEPARTMENT

Portland, Oregon, December 31, 1908.

To the Honorable Mayor and Board of Health, City Hall.

Gentlemen: Herewith is submitted the customary annual report of this department for the year ended December 31, 1908.

For several years past Polk's estimate of the population has been used as a statistical basis by this and other departments of the city government, and the established precedent has been followed in this report.

The death returns may be relied upon as covering that part of the vital statistics accurately. During the year 1907 there were 1,860 deaths. This year (1908) there were 1,783 deaths recorded, and of this number 180 were of persons brought to the city for medical or operative treatment. Based on a population of 255,000, the death rate for this year is 6.99 per thousand. Notwithstanding the increased population, the actual number of deaths that have occurred in the city this year is 77 less than reported last year. The prevalence of meningitis during the earlier months of 1907 somewhat increased the deaths; but eliminating this disease for both years, the number of deaths for 1908 still remains lower than the preceding year. The average age at death in this city during the year 1908 was over 40 years.

The continuously low death rate in the City of Portland is due largely to the pure water supply, to the mild and fostering climate and to the comparative absence of poverty and overcrowding that so increases the mortality in larger and older cities, supplemented by such auxiliaries as hospital service, quarantine, vaccination, antitoxin, disinfection, ambulance service and to the school and market inspection. With a proper garbage gathering and incinerating system and adequate milk supervision, the death rate might fall still lower.

There were 2,813 births returned during the year 1908, an increase of 450 over last year. These returns are undoubtedly incomplete, as physicians frequently forget to report, and cases cared for by midwives are generally not reported. The baptismal records of one little church with a large foreign attendance were examined, and it was

found that the births of only about one-third (14 out of 36) of the infants baptized during the year had been reported to the Health Office. However, even with such omissions the birth rate shows a substantial increase over last year.

	1907.	1908.
Births	2,363	2,813
Deaths	1,860	1,783

The appropriations for the maintenance of this department are very low, as compared with the appropriations for the same departments in other cities of Portland's class. This department expended \$19,843.27 during the year 1908. The expenditures have been increased over last year's by the maintenance of a large number of smallpox patients, due to the prevalence of that disease throughout the country and to the support of indigent families in quarantine for different contagious diseases; to the very liberal use of disinfectants after smallpox, diphtheria and other infectious diseases; to the taking of cultures in diphtheria cases and to the employment of a bacteriologist to examine the same for the purpose of detecting and preventing the spread of this disease; to the ambulance service, which makes it possible for accident cases to reach the hospital without riding in the police patrol wagon, and for persons suffering from infectious diseases, such as diphtheria and meningitis, to reach the sanatorium without further endangering their lives by long waiting or by rough usage, such as was unavoidable when patients were conveyed in the express wagon that this city provided prior to June 1, 1908. The ambulance service has also largely done away with the use of public carriages, which were often resorted to in desperation by persons suffering from contagious diseases and left infected for the use of the next occupant. The expenditures have also been increased by the employment of public school inspectors, who have detected cases of smallpox, diphtheria and scarlet fever in the schools, besides many minor ailments and hundreds of cases of common lice, and who have made impossible such another occurrence as the epidemic of measles which scourged the city schools in the earlier months of 1906, when over twelve hundred cases were reported, the month of May showing 365 cases with five deaths. The expenses of the laboratory for the examination of rats and the payment of the rat bounty were also defrayed out of this amount.

INFECTIOUS DISEASES

Communicable diseases are more carefully reported than formerly, but constant vigilance is necessary to secure anything like complete reports.

TUBERCULOSIS

This is by far the most important and dreadful disease with which we have to contend. Its prevention is difficult, and, on account of its chronic nature, the care of indigent cases very expensive. One hundred and seventy-four deaths resulted from this disease during the year.

The public is beginning to realize the danger from tuberculosis, and some work is being done by individuals and organizations for its care and prevention. The department is frequently called upon to fumigate rooms after the departure of a patient sick with tuberculosis, and houses are fumigated after deaths from this disease. There is a philanthropic movement on foot to establish a dispensary in the city for tubercular patients, which should be encouraged and helped by this department. Reports of all verified cases of tuberculosis should be insisted upon so that houses and rooms may be disinfected after the departure of such patients.

PNEUMONIA

Next to tuberculosis this has been the most fatal disease of the year. During the year 1907 there were 130 deaths from pneumonia. This year (1908) 149 deaths have resulted from it.

TYPHOID FEVER

Many of the 247 cases of typhoid fever reported were contracted while away on vacations or during trips out of the city. Sixty-nine of these patients were non-residents brought to the city for treatment. There were 40 deaths this year from this disease. Last year (1907) 36 deaths resulted from it.

A large percentage of the cases which developed in the city doubtless originated from infected milk shipped from outlying districts. During the month of August a camp located on the Columbia Slough and using Columbia Slough water reported several cases of this disease. There are a great many dairies in this vicinity, and with infected water so near, the infection of milk might easily follow. Such infected milk being delivered to and in turn distributed by the creameries of the city, the source of these typhoid cases could never be traced. These sources of danger and death can be reached only by adequate dairy regulation and inspection.

DIPHTHERIA

The use of the culture as a means of diagnosing diphtheria is becoming more general and as a result reports are more complete. When children remain away from school on account of sore throats

cultures are taken before such children are permitted to return. Many of these cultures have given positive returns.

Several deaths following a diagnosis of "croup" have been investigated and found to be diphtheria. In these cases other children exposed have been immunized and cultures taken from their throats. Many of these cultures have proved positive.

CEREBRO-SPINAL MENINGITIS

This disease became epidemic in this city during the earlier months of 1907, and the city has not been entirely free from it since that time. There have been 15 deaths from this cause during 1908.

SMALLPOX

The prevalence of this disease in a very mild form has been a great burden to this department during the entire year. Where a case is reported it is often found that there have been other cases so mild that the people infected have attended their work during the course of the disease.

This disease has for years been treated almost exclusively by medical officers, with the result that the average medical practitioner has had no experience with it and does not recognize it. In cases where physicians are called it is usually at the beginning of the disease and the diagnosis is "la grippe." Later, when the patient is feeling so well that he is at work, perhaps less than a half dozen postules appear. As an illustration of the difficulty of recognizing smallpox in its present mild form, it may be mentioned that a case developed recently at the Portland Women's Union which was diagnosed as "stomach trouble" and treated as such for ten days by a member of our State Board of Medical Examiners. Two new cases resulted from this exposure among the unvaccinated boarders. Another case was that of the housekeeper of one of our most prominent women practitioners. This case was broken out a week before the doctor suspected that it was smallpox.

Other cities along the coast have been having similar trouble with this disease. The vaccination of school children has been strictly enforced in some of these cities. An effort to enforce the state law requiring school children to be vaccinated is being resisted in Seattle and a test case is now pending in the Supreme Court of the State of Washington.

Vaccination is being evaded in many of the schools of this city for the reason that the state law provides for vaccination only during an epidemic of smallpox. Such is the protection afforded by this precaution that the presence of a vaccination scar is almost proof that a skin eruption is not that of smallpox.

Several months ago this department addressed a circular letter to all the larger laundries and many of the large business houses of the city urging the enforcement of vaccination among employees. From two firms only have we received assurance that these instructions have been followed, and these firms have experienced the inconvenience of the disease. Vaccination is a protection of which every person and firm may take advantage. Those who neglect this precaution should not complain if they find themselves in quarantine.

During the year 154 persons were treated and maintained at the smallpox hospital. About 99 per cent of the expense incurred through this disease is directly chargeable to the unvaccinated.

SCARLET FEVER AND MEASLES

For several years past the number of scarlet fever cases has been few and this malady has given but little trouble during the year, so there must be a large crop of susceptibles now ready for the reaper. During the closing weeks of the year cases of this disease developed in a certain district. The school in this district has been repeatedly inspected since that time, and at this writing the inspector reports the finding of a case in school in the scaling stage. This is the most contagious period of the disease and from this case an epidemic might easily start.

In 1906 measles swept through the schools of the city. In 1907 great inconvenience was suffered from mumps. To these diseases there are, therefore, a great many immunes, but no much immunity exists in regard to scarlet fever.

BUBONIC PLAGUE

During the later months of the year 1907 and the earlier months of 1908 every city along the Pacific Coast was in imminent danger from bubonic plague. Fortunately no cases developed in Portland. No new cases have been reported from any of the Pacific Coast cities of late. The disease is undoubtedly still in existence and may break out again at any time. Being primarily a disease of animals, rodents particularly, it is well nigh impossible to secure accurate information concerning it.

SCHOOL INSPECTION

Medical inspection of public schools was systematically undertaken in this city in the month of October, 1908. While the department was aware of the great need for this work, the returns are far more important than was anticipated. Cases of smallpox, diphtheria, scarlet fever, chickenpox and whooping cough have been found and excluded from the schools. There were also many cases of itch and

other contagious skin diseases, many of which have been remedied. There were 369 children with pediculosis (lice). Most of these cases have been cleaned up, but in visiting the homes of some of these children the nurse finds it almost impossible to remedy the trouble for the reason that the other members of the families to which they belong have vermin. Had the school inspection been in effect during the earlier months of the year the epidemic of smallpox which occurred in one of the school districts would unquestionably have been avoided and the city saved great expense and inconvenience thereby.

The following is a resolution passed at the Multnomah Teachers' Institute at their last meeting:

"Whereas, medical inspection in schools has been systematically undertaken in Portland this year for the first time; and whereas such inspection tends to remove the danger of exposure to contagious diseases as well as to direct the attention of parents to physical disabilities of their children which might have escaped their notice and which prevents the child's best advancement in school; Be it resolved, That we favor a systematic inspection by skilled medical inspectors.

"C. M. Kiggins, Chairman."

ROUTINE WORK

While sundry special work with special employees has been authorized under the direction of the Health Board during the past eighteen months, the regular staff of the department has not been increased for the past six years or more. In January, 1903, the Health Board appointed three physicians for the work of this department, and with the exception of a few months the same number have been in the service ever since. Three employees are still doing this work, although the remarkable growth of the city has increased the duties many fold.

RECOMMENDATIONS

The ambulance service is prompt and efficient. It has been of great value to the sick and injured of the city and in the interests of suffering humanity it is to be hoped that before long an emergency ward, surgical dressing room and certain "first aid" conveniences may be maintained in connection with the police station.

The need of a chemical laboratory is increasing and will continue to increase with the growth of the city. Under present conditions it is impossible to obtain an analysis of foods suspected of being impure or adulterated. Cold storage fowls embalmed in their own juices and several others besides, freezing hamburger steaks and chemically pre-

served oysters, etc., are fairly safe from detection and will continue to be so until the city has a chemist.

Most of the "nuisance" complaints to this office arise from the carelessness and improper keeping of animals within the city limits. To minimize the nuisance to themselves, many people place their stables, barns, chicken coops and so forth on the remotest corner of their lot, which cheerful arrangement often brings them directly under the windows of their neighbors, who very justly protest. An ordinance providing for proper drainage and disposition of manure from stables should be enacted. Manure piles are unsightly, offensive and breeding places for flies. If persons maintaining stables and barns were compelled to provide manure rooms there would be fewer nuisances arising from this cause.

This department has frequently called the attention of the city to the crying need for a modern garbage collecting and incinerating system. Our deplorable condition in this respect is so well known that to mention it in this report seems almost superfluous.

An adequate dairy inspection is one of the most urgent needs of Portland. Dairymen should be licensed to do business in the city and the issuance of such licenses should depend upon the conditions under which milk is produced. Milk is a most important food and one very easily contaminated. It is therefore necessary to use the utmost care in its production and delivery. Some of the creameries in the city make an effort to supply clean milk; but the fault is primarily with the dairies and should first be corrected there. With out inspection, the "sanitary" milk bottle is a farce. The label "sanitary" guarantees nothing. Such a bottle may have been sterilized before filling, but it may have been left by the bedside of a person with an infectious disease, used as a drinking cup, collected, rinsed out, refilled and passed along to the next customer with a fresh "sanitary" label attached.

Report of Dr. R. C. Matson, City Bacteriologist:

No. of cultures examined, positive	1058
No. of cultures examined, negative	836 1894
Sputum examined	297
Water examined	47
Blood examined for typhoid.....	38
Rats examined	500
Reports of Medical Inspectors, months of October, November and December:	
No. of schools given routine inspection	39
No. of schools given second inspection	18
No. of schools given cursory inspection	12
No. of pupils given full examination.....	5,106

No. of pupils given cursory examination	4,205
No. of defective pupils found	2,519
Report of School Nurse, months of October, November and December:	
No. of schools given routine inspection	30
No. of individual pupils given routine inspection.....	14,880
No. of schools given second inspection.....	6
No. of pupils inspected for scarlet fever only.....	650
No. of pupils inspected for vermin and eruption.....	648 1,298
No. of pupils given second inspection.....	369
No. of pupils having vermin found by inspectors and nurse....	369
No. of calls made	277
Hospital Report:	
No. of patients cared for at Good Samaritan and St. Vincent's Hospital and Sanatorium.....	161
Report of Ambulance Company:	
No. of calls since June 1.....	523
Report of Deputy Health Officer, Fumigator:	
No. of rooms fumigated.....	4,209
Report of Sarah A. Evans, Market Inspector:	
Visits of inspection—	
Grocery stores	741
Meat and fish markets	755
Restaurants	532
Factories and institutions	44
Creameries	174
Commission houses	454
Bakeries	233
Complaints answered	221
Miscellaneous	364
Total.....	3,518
Inspections for granting Tamale and Candy Licenses—	
Visits	45
Permits granted	32
Recalled	2
Cases reported to Plumbing Inspector.....	26
Fees for violation of Market Ordinance.....	\$200.00
Report of Deputy Health Officer, Sanitary Inspector:	
No. of notices written	2,457
No. of notices verbal	717
No. of notices reported to Plumbing Inspector.....	18
No. of notices to fill up cesspools.....	73
No. of notices to clean filthy yards.....	357

No. of notices posted not to dump garbage.....	295
No. of notices to remove manure piles.....	247
No. of notices to clean cellars and basts.....	136
No. of notices to remove swill barrels.....	371
No. of notices to keep swill barrels covered.....	27
No. of notices to keep toilets clean	195
No. of notices to secure iron cans for swill.....	
Notices to remove nuisances from building.....	12
Notices to clean chicken yards.....	271
No. of notices to clean alleys	88
Miscellaneous	609
Notices to remove nuisances on street.....	24

Respectfully submitted.

ESTHER C. POHL,
Health Officer.

BIRTHS.

Month.	Male.	Female.	Total.	White.	Yellow.	Colored	Still born.
January	117	122	239	236	1	2	14
February	119	105	224	221	0	3	11
March	129	114	243	241	2	0	11
April	117	121	238	233	1	4	12
May	111	115	226	224	1	1	9
June	113	109	222	221	0	1	8
July	127	125	252	249	0	3	7
August	129	125	254	252	1	1	9
September	118	102	220	218	1	1	9
October	122	112	234	233	0	1	10
November	114	103	217	216	0	1	10
December	129	115	244	241	2	1	13
1908	1445	1368	2813	2785	9	19	125
1907	1197	1166	2363	2319	15	29	127

1908, population 255,000; percentage per 1,000, 11.03.

1907, population 225,000; percentage per 1,000, 10.40.

Forty-five of these births were taken from baptismal records of Italian and German Catholic churches.

CONTAGIOUS DISEASES REPORTED DURING YEAR 1908

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Diphtheria	62	49	45	36	32	35	21	18	19	30	36	29	412
Measles	8	9	21	30	28	74	6	3	1	2	7	3	192
Chickenpox	14	11	15	10	18	4	7	2	6	17	24	29	157
Whooping cough ..	2	1	1	0	6	14	1	0	0	1	2	0	28
Erysipelas	0	1	0	6	2	1	2	2	1	1	2	0	18
Typhoid fever..	29	12	4	7	8	3	3	28	32	24	18	10	178
*Typhoid fever..	11	3	2	4	2	2	3	11	11	9	6	5	69
Scarlet fever....	13	12	15	12	10	8	3	5	1	6	18	15	118
Smallpox	13	6	9	13	86	36	35	22	4	26	28	21	299

*Brought here for treatment.

DEATHS BY MONTHS DURING THE YEAR 1908

Months.	Male.	Female.	White.	Yellow or colored.	Under 1 year.	1 to 5 years.	5 to 20 years.	20 to 40 years.	40 to 60 years.	60 to 100 years.	Not known.	Married.	Single, under 20.	Single, over 20.	Widowed.	Divorced.	Not known.	Oregon.	Other states.	Foreign.	Not known.
January	77	59	131	5	21	4	12	21	39	37	2	54	36	21	19	1	5	40	47	46	3
February	90	72	158	4	9	6	18	31	39	59	...	63	32	26	30	1	10	33	65	54	10
March	102	77	176	3	23	5	17	37	36	60	1	68	45	33	30	1	2	40	86	49	4
April	95	57	144	8	18	6	11	38	33	45	1	66	33	27	20	...	6	36	53	54	9
May	80	70	145	5	24	5	12	37	36	36	...	52	41	26	27	1	3	43	51	49	7
June	70	48	117	1	19	6	9	29	28	27	40	42	32	26	16	1	3	35	50	25	8
July	77	48	123	2	11	5	18	26	22	42	1	42	32	20	25	3	3	30	59	31	5
August	91	53	139	5	23	8	10	40	25	38	...	56	39	25	19	1	4	41	56	39	8
September	130	57	182	5	33	14	14	39	44	42	1	74	60	23	21	2	7	7	50	81	49
October	92	64	151	5	22	6	10	31	46	41	...	66	36	18	22	2	12	36	64	42	14
November	67	49	115	1	14	4	6	22	29	41	...	58	17	24	14	...	3	28	45	39	4
December	104	54	150	8	23	4	8	31	48	43	1	60	35	29	24	1	9	35	58	52	13
Total 1908	1075	708	1731	52	240	73	145	382	425	511	7	699	438	298	267	14	67	404	584	561	134
Total 1907	1089	771	1775	85	255	82	145	455	430	484	19	685	466	326	281	7	95	498	746	509	107

Total number of deaths 1908, 1,783; population 255,000; per 1,000, 6.99.

Total number of deaths 1907, 1,860; population, 225,000; per 1,000, 8.28.

CAUSES OF DEATHS—GENERAL DISEASES

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Tuberculosis, pulmonary	11	11	17	14	20	17	9	15	10	13	6	11	154
Tuberculosis, meningal and other forms	5	4	6	1	8	1	4	...	4	7	3	3	46
Diphtheria	1	3	3	5	1	3	1	1	...	3	3	2	26
Typhoid fever	4	1	3	2	4	...	2	8	4	5	1	7	41
Influenza	4	2	4	2	...	...	...	...	...	...	...	...	14
Whooping cough	1	...	...	1	...	...	1	...	...	...	...	...	3
Erysipelas	...	...	1	...	...	...	2	...	...	...	...	...	3
Scarlet fever	...	...	...	...	1	...	...	...	...	...	...	...	1
Beri beri	...	...	...	...	...	...	...	...	1	...	...	...	1
Cancer of digestive system	4	1	4	6	2	2	5	1	11	6	3	7	52
Cancer of uterus	...	1	...	...	1	...	...	...	...	1	...	...	7
Cancer of other organs	1	...	2	3	...	2	3	...	1	2	3	2	19
Purulent infections and septicemia	1	2	1	...	1	1	...	3	2	4	3	...	18
Gastric and intestinal ulcer	1	...	...	...	...	...	...	...	1	...	...	...	2

CAUSES OF DEATHS—GENERAL DISEASES—Continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Diabetes	1	1	1	1	2	1	1	2	1	1	1	2	12
Anemia	1	3	3	1	1	2	1	1	1	1	1	2	16
Uremia	1	3	1	1	2	1	1	1	3	1	1	3	14
Enlargement of spleen.....	1	1	1	1	1	1	1	1	1	1	1	1	11
Hodgkins disease	1	1	1	1	1	1	1	1	1	1	1	1	11
Exophthalmic goitre	1	1	1	1	1	1	1	1	1	1	1	1	11
Tetanus	1	1	1	1	1	1	1	1	1	1	1	1	11
Catarrhal jaundice	1	1	1	1	1	1	1	1	1	1	1	1	11
Syphilis	1	1	1	1	1	1	1	1	1	1	1	1	11
Arthritis	1	1	1	1	1	1	1	1	1	1	1	1	11
Actinomycosis	1	1	1	1	1	1	1	1	1	1	1	1	11

DISEASES OF THE NERVOUS SYSTEM

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Meningitis	4	3	4	4	4	2	2	2	1	1	2	2	26
Encephalitis	1	1	1	1	1	1	5	4	8	12	2	7	1
Cerebral congestion, hemorrhage and apoplexy.....	2	8	8	5	4	5	1	2	1	1	1	5	70
Cerebral embolism and softening.....	1	1	2	1	1	1	1	2	2	2	2	5	9
Paralysis	4	4	7	1	2	2	3	10	8	1	1	1	46
Brain tumor and abscess	2	2	1	1	1	2	1	5	2	1	1	1	17
Epilepsy	1	1	2	2	1	1	1	1	1	1	1	1	4
Locomotor ataxia	1	1	2	2	1	1	1	1	1	1	1	1	4
Other affections of the nervous system.....	1	1	1	2	1	1	1	3	1	1	1	1	9

CIRCULATORY SYSTEM.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Myocarditis	1	4	4	2	2	2	4	1	2	2	1	1	6
Endocarditis	1	4	4	3	2	2	4	4	2	2	4	1	33
Pericarditis	1	2	1	1	2	2	2	2	2	2	2	2	6
Organic heart disease	16	10	11	11	10	8	9	9	7	9	10	5	115
Aneurisms	1	1	1	1	1	1	1	1	1	1	1	1	4
Angina pectoris	1	1	1	1	1	1	1	1	1	1	1	1	6
Arterio sclerosis	1	1	1	2	4	1	2	2	1	1	2	3	16
Embolus of pulmonary artery	1	1	1	2	1	1	2	2	1	1	1	1	3
Hemorrhages	1	1	2	2	1	1	1	2	2	2	3	2	5
Other affections of the circulatory system	1	1	2	2	1	1	1	1	2	2	3	6	19

DISEASES OF THE RESPIRATORY SYSTEM

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pneumonia	6	24	21	13	16	10	6	2	12	9	13	17	149
Bronchitis	1	1	3	3	1	1	1	1	1	2	3	2	15
Edema of lungs	1	1	1	1	1	3	1	1	1	1	1	1	10
Asthma	2	1	2	4	1	1	1	1	1	1	1	1	12
Acute pleurisy	1	2	1	1	1	1	1	1	1	1	1	1	2
Empyema	1	1	1	1	1	1	1	1	1	1	1	1	5
Other affections of the respiratory system	1	1	1	1	1	1	1	1	2	1	1	1	5

DISEASES OF THE DIGESTIVE SYSTEM

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Gastritis	1	3	1	2	1	...	2	2	1	2	...	1	16
Enteritis	...	...	3	1	1	...	...	5	14	2	1	1	28
Appendicitis	...	...	...	1	1	1	...	...	...	...	...	...	2
Peritonitis	2	1	...	1	...	1	...	1	1	...	...	1	8
Gastric and intestinal hemorrhage.....	2	2	...	...	1	...	1	1	1	1	...	...	7
Auto-intoxication	...	...	...	...	1	...	1	...	...	...	...	...	3
Acute dyspepsia	...	...	...	...	1	...	...	...	...	...	...	...	1
Dysentery	...	2	...	...	1	1	...	1	1	2	3	1	10
Obstruction of bowel	2	1	...	...	1	1	...	...	1	1	...	...	7
Strangulated hernia	...	...	...	...	...	...	...	...	1	...	...	...	1
Hepatic cirrhosis	2	...	1	1	3	...	...	1	...	...	2	1	11
Other affections of the liver.....	2	...	...	...	...	...	2	1	...	2	1	...	8

DISEASES OF GENITO-URINARY SYSTEM

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Nephritis	7	11	6	11	5	7	4	8	6	6	6	9	86
Cystitis	...	4	...	...	...	1	...	...	...	1	1	...	7
Fatty degeneration of kidney.....	...	...	1	...	...	...	...	...	...	...	...	...	1

CAUSES OF DEATH—OLD AGE

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Senility	8	9	12	8	9	3	12	7	10	4	4	6	92

PUERPERAL STATE

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Eclampsia	1	1	1	1	4	1	2	1	1	1	1	1	7
Puerperal sepsis	1	1	1	1	2	1	2	1	1	1	1	1	8
Ectopic gestation	1	1	1	1	1	1	1	1	1	1	1	1	4
Hemorrhage and shock	1	1	1	1	1	1	1	1	1	1	1	1	2
Other puerperal complications	1	1	1	1	1	1	1	1	1	1	1	1	3

EARLY INFANCY

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Inanition	7	2	2	4	9	5	3	2	12	15	3	7	71
Enteritis and cholera infantum	2	1	1	2	2	1	2	3	8	4	3	1	24
Convulsions	1	1	2	2	1	1	1	1	3	1	1	1	13
Premature birth	1	1	2	4	1	3	1	1	1	1	2	1	22
Congenital malformation	1	1	2	1	1	4	1	1	1	1	1	1	19
Other affections of early infancy	1	2	2	1	1	1	1	1	1	1	1	2	10

EXTERNAL CAUSES

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Accidental	5	9	7	10	8	10	13	7	19	9	6	6	109
Suicide	2	6	5	3	4	2	4	4	5	5	4	3	47
Murder	1	1	2	1	1	1	4	1	3	1	2	2	17

ILL-DEFINED CAUSES

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Ill-defined causes	2	1	1	2	1	1	1	1	1	1	1	1	8

DEATHS FOLLOWING OPERATIONS

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Abdominal operations	2	3	6	4	1	4	4	7	4	7	1	7	50
Operations for cancer	1	4	1	1	2	4	1	2	2	1	3	4	24
Other operations	3	1	6	2	1	1	4	1	4	1	2	3	29

ANNUAL REPORT

—OF—

PLUMBING INSPECTOR

Portland, Oregon, December 31, 1908.

To the Honorable Mayor and Council, City of Portland.

Gentlemen: I respectfully submit the annual report of the Plumbing Department for the year ending December 31, 1908, together with recommendations for the betterment of the sanitary conditions of the city.

It is not necessary to go into details about the amount of work done in this office, as the tabulated report will speak for itself.

The water front has been repeatedly cleaned up regarding private sewers, but I am sorry to say that after each rise of the river it is in about the same filthy condition. It is practically useless to clean the water front unless some permanent improvement can be made to keep the sewerage and filth from under the docks.

Many sewers have been put in which are practically useless on account of lack of water supply, and I would recommend that when sewers are constructed in any street not having a water main, that same be laid at the same time.

The district north of Nicolai street and north of Thurman street, including part of the Fair Grounds and Willamette Heights, is being built up and in need of sewers. Some of the streets on Willamette Heights are being improved with hard surface streets, in which there are no sewers. This sewer was recommended in 1906.

Stephens Slough sewer is badly needed. This has been held up a long time, to the detriment of the district drained by this sewer.

The district north of Belmont and west of Thirty-ninth street, including Mount Tabor, Center Addition, Rose City Addition, Montavilla, and in fact all the territory between the Sunnyside and Holladay avenue sewers, are in need of sewers. These additions are being rapidly built up and will be drained by a sewer in Sullivan's Gulch. As it will take some years to build this sewer, it should be started without delay.

The district in South Portland from the gulch south of Seymour avenue to Dakota street is badly in need of sewers, and as this locality is being rapidly built up, and the matter is now before the Council, I would recommend it to be pushed.

Too much time has been given to the construction of the Brooklyn sewer, to the detriment of the district drained by this sewer, and same should be rushed to completion.

I would recommend that when contracts are let for sewer work that the contract include lateral branches to property line.

Some years ago your attention was called to the plumbing ordinance in regard to it being faulty and unenforceable, but nothing has been done to remedy this. While we have had some assistance from architects, owners and plumbers in keeping things straight, arrests have to be made. Some cases are won because after being arrested the defendants in question comply with the requirements and the cases are dismissed. Others stand trial, are convicted in the Police Court, appeal to the Circuit Court and win.

There is neither satisfaction or system in working under an ordinance that cannot be enforced. The health of the city depends in a great measure on the enforcement of sanitary laws, and I would suggest that this matter be attended to at once.

The city is badly in need of a stable ordinance. Many complaints regarding the same come to this office. Stables can be made sanitary, but will not be as long as there is no ordinance in effect, and the one we have is practically useless in regard to sanitation.

From a humane standpoint, I do not believe horses should be kept in a basement. As a rule they are damp and not properly lighted and ventilated. Barns are generally built of and stored with inflammable materials, and proper exits are not provided to the street, and there is very little chance of getting the horses out in case of fire. The number of exits to the street should be regulated according to the size of the barn.

In the last November election a large territory east of the present city limits was voted into the city, but I believe will not become a part of the city until July 1, 1909. This territory is thickly settled in parts and is not in a good sanitary condition, principally on account of lack of water and poor plumbing, and I would recommend that the water mains be extended to take care of this territory.

Two more inspectors will be needed to care for this territory.

Much time and money has been well spent in providing parks, play grounds, boulevards, etc., but there is another matter of as much, if not more, importance for the health and comfort of the citizens, and that is public toilets. A public toilet to be of any use must be in the business district, where the people congregate. Other cities build their comfort stations under the sidewalks and streets, but this can hardly be done here on account of narrow streets, high water and sewers not being deep enough. On Pine street, between Sixth and Seventh, would in my opinion be a good location for a

public comfort station, and it would be on the streets to the depot, and also only a few blocks from Washington street, the main thoroughfare. I believe the city owns a fractional block in this vicinity, which could not be used to better advantage.

The first principles of sanitation are sunlight and air, and these have been sadly neglected by owners, architects and builders in regard to the placing of plumbing fixtures, which are placed in buildings in both dark rooms or damp basements; no attention being paid to light or ventilation.

Our present city ordinance covering ventilation is not good. Restaurant kitchens, as now constructed, are a nuisance for the reason that holes are bored into the floors so that water can run under the building when kitchens are scrubbed out, and I would recommend that all kitchens in restaurants and hotels be provided with water-tight floors or non-absorbent material and drained to sewer.

Respectfully submitted,

WILLIAM HEY,
Inspector of Plumbing and Drainage.

TABULATED STATEMENT OF WORK DONE IN THE PLUMBING DEPARTMENT FOR THE
YEAR ENDING DECEMBER 31, 1908

Months.	New buildings inspected.	Old buildings inspected with new fixtures.	Cesspools connected.	Sewers connected.	Written notices served.	Septic tanks.	Special permits issued.	Total number of licensed plumbers.	Reports of defective plumbing.	Plumbing remodeled on notice.	Total number of visits for month.	Total number of fixtures.
January	80	78	72	85	47	1	0	80	43	30	920	644
February	139	115	113	141	67	0	0	86	56	49	898	1,114
March	254	151	183	220	80	2	0	83	81	57	1,158	1,404
April	274	161	184	249	111	2	0	83	73	36	1,281	2,146
May	265	163	178	249	62	1	0	86	92	54	1,207	2,140
June	254	134	168	220	67	0	0	83	143	32	1,275	1,943
July	197	128	143	182	40	0	0	83	83	18	1,165	1,629
August	233	127	159	201	57	0	0	96	72	59	1,185	2,031
September	235	132	157	209	171	1	1	96	71	53	1,087	1,905
October	249	140	185	204	134	1	0	96	67	71	1,353	1,850
November	206	146	190	160	308	2	0	96	58	67	1,057	1,636
December	156	148	136	168	40	0	0	96	58	70	1,172	1,625
Total	2,542	1,623	1,868	2,288	1,184	9	1	96	897	596	13,758	20,067

ANNUAL REPORT

—OF—

LIBRARY ASSOCIATION

Portland, Oregon, December 31, 1908.

To the Honorable the County Commissioners of Multnomah County, Oregon.

Gentlemen: The privileges of the Library Association of Portland are free to the inhabitants of the city and county, and are enjoyed by reason of an agreement whereby the city and county place at the disposal of the association an annual amount of money, which varies from year to year, depending upon the assessment and tax levy. The receipts from all sources for the year just closed, also the expenditures, are fully set forth in the statement attached.

The property of the association consists of one-half block on the south side of Stark street, between Seventh and East Park, valued at not less than \$300,000; the building, including furniture and fixtures, at \$200,000; the quarter block at the corner of East Alder and Fourteenth streets, valued at \$6,000; building, furniture and fixtures, \$3,000. No money value can be placed on the books owned by the association. There are 64,628 volumes in the central library and 14,896 volumes in the branches, stations and county schools; a total of 79,524. Many of these books it would be impossible to duplicate and their value can only be conjectured.

In addition, the association has funds amounting to a total of \$112,915, invested as per statement attached.

The extent that the library has been used by the people of the city and county during the past five years is shown by the following table, which gives the circulation:

	1904	1905	1906	1907	1908
Central	171,928	163,680	190,778	203,367	250,726
Branches				24,104	82,157
Stations	2,457	3,955	13,356	37,521	58,169
County schools		9,441	13,609	17,801	15,732
Total	174,385	177,076	217,743	282,793	406,784

And yet the circulation is not the only measure of the library's usefulness to the community. The reference room is used not only

by the teachers and pupils of our schools, but by students from all over the Northwest and by our citizens, who, from time to time, require information that cannot be obtained elsewhere. The periodical room, reference room and circulating room are filled by hundreds each day.

The circulation from the central library and from branches, stations, etc., is given below in comparison with five other cities of the country:

	Central Library.	Branches, Stations, etc.	Total.
Portland, Ore.	250,726	156,058	406,784
Boston, Mass.	287,165	1,049,582	1,336,747
Pittsburg, Pa.	122,229	762,531	884,760
Cleveland, Ohio	317,418	1,233,596	1,550,914
Minneapolis, Minn.	263,148	337,264	600,412
St. Louis, Mo.	443,346	681,370	1,124,716

From this comparative table it will be seen that the circulation from our main building is fast reaching the limit of convenience to the public, and it will be observed that the circulation from the central libraries in the other cities is much less than from their branches, stations, etc.; while with us it is just the reverse, and the energies of the association must be exerted in providing more and better equipped branches in different sections of the city.

All of our branches are greatly hampered by the lack of books, and before new branches are opened those already established, namely, Sellwood, East Side and Albina, must be properly maintained by supplying the required number of volumes to meet the demands made upon them. To carry out this policy and satisfy the legitimate requirements of the public will require funds in excess of the amount previously furnished us.

It is only proper that we should advise you that the credit for the high efficiency of the Public Library is due to our very able librarian and her assistants.

It will be our privilege to hand you at a later date the report of the librarian, which will set forth in much fuller detail the activities of this association.

Respectfully submitted,

BOARD OF DIRECTORS OF THE LIBRARY
ASSOCIATION OF PORTLAND.

By W. B. Ayer, President.

PORTLAND LIBRARY ASSOCIATION RECEIPTS AND DISBURSEMENTS FROM DEC. 28, 1907, TO DEC. 27, 1908

General Fund.

Receipts—

On hand December 28, 1907.....	\$ 1,005.21	
Public library tax, county.....	23,032.22	
Public library tax, city	21,144.90	\$45,182.33

Disbursements—

	Book Com.	House Com.	Library Ext. Com.	
Binding	\$ 3,191.83			\$ 3,191.83
Books			\$ 3,511.26	\$ 3,511.26
Replaced books....	856.24			856.24
Expense	103.06	\$ 455.99	750.18	1,313.23
Fuel		517.30	113.33	630.63
Furniture and fix..		345.95	212.45	558.40
Insurance			90.00	90.00
Light		625.55	196.35	821.90
Periodicals	772.93		404.15	1,177.08
Printing and sup..	2,086.65	9.60	42.17	2,138.42
Repairs	10.15	1,661.39	33.15	1,704.69
Salaries	20,083.66	2,040.00	5,732.80	27,856.46
Street assessment..		651.12		651.12
Trans. and postage	160.25	37.05	362.53	559.83
Water		86.85	29.25	116.10
	\$27,264.77	\$6,434.80	\$11,477.62	

Balance on hand\$ 5.14

Association Funds.

Receipts—

On hand December 28, 1907.....	\$ 458.84	
Fines	1,963.64	
Books sold	590.19	
Interest on investment funds.....	6,622.39	
Cash on hand December 28, 1907.....	157.69	\$ 9,792.75

Disbursements—

Books	\$ 6,601.82	
Cash on hand December, 1908.....	489.33	\$ 7,091.15
		\$ 2,701.60

Loan Account.

Receipts—

Amanda W. Reed bequest.....	\$10,000.00	
Balance loan C. B. Fernald.....	500.00	
Account loan H. Hirschberg.....	1,000.00	
Loan C. B. Harris.....	282.50	\$11,782.50

Disbursements—

Amount loaned	\$11,400.00	
	\$ 382.50	
Special Albina library fund (donation).....	\$ 740.10	

The Investment of the Library Association's Irreducible Funds.

Mortgages loaned in Multnomah County.....	\$111,150.00
Portland Gas Company bond.....	1,000.00
Cash on hand	382.50
Total	\$112,532.50

ANNUAL REPORT

—OF—

Civil Service Commission

City Hall, Portland, Oregon, December 31, 1908.

To the Honorable Harry Lane, Mayor of the City of Portland.

Sir: Pursuant to the provisions of Section 317 of the Charter, the Civil Service Commission herewith submits its sixth annual report.

The Commission has experienced no difficulty in obtaining applicants for all branches of the City service during the year, particularly for the labor departments.

Great care has been taken to have all examinations fair and practical. Every effort has been made to prevent fraud, and to give each candidate an equal chance with all other candidates.

With but few exceptions there has been a hearty co-operation of the heads of the various municipal departments in perfecting and maintaining the merit system in our City.

All monthly payrolls for services in the classified service are certified by the secretary after careful examination and comparison with the roster.

To meet the demands of the different departments the following positions were added to the classified list, and examinations held therefor:

Police Service—

Female detective.

Female clerk to female detective.

Inspection Service—

City Sealer of Weights and Measures.

Deputy City Sealer of Weights and Measures.

Engineering Service—

Civil engineer (Building Inspection Department).

Draughtsmen (topographical).

Draughtsmen (structural).

Cement finisher.

Clerical Service—

Stenographer (City Attorney and Municipal Court Department).

Park Department (Miscellaneous Service)—

Custodian of parks.

Foremen of construction.

Foremen of maintenance.

Mechanics, Park Department.

Forester, Park Department.

Upon recommendations coming from the heads of departments to the end that scopes of examinations be made more practical and embrace all the requirements necessary to guarantee eligibles competent to perform the duties of positions, the Commission have changed scopes of the following classes:

Civil Engineers—Account experience.

Sewer Inspectors—Account experience.

Janitors and Watchmen—Account experience.

Hosemen, Truckmen (Fire Department)—Account educational test.

Appeals

Snow, Resing, Carpenter, Day, detectives, May 28, 1908, Executive Board decision reversed.

Aug. Kulis, Conrad Schaefer, laborers, Park Department, February 18, 1908, sustained.

Snow, Resing, Carpenter, Day, detectives, July 30, 1908, pending.

M. P. Murphy, patrolman, September 17, 1908, sustained.

O. F. Isaacson, patrolman, October 28, 1908, petition denied.

Geo. W. Russell, patrolman, December 30, 1908, pending.

In response to a request from the Charter Revision Committee the Commission, as suggested in our last annual report, recommended the revision of Section 317 of the present Charter regarding the removal of civil service employees. Such recommendation was that the Commission should not entertain appeals from discharged employees except upon the claim that such dismissal was made for political or religious reasons.

Police Department—

Captains	3
Detectives, sergeants, patrolmen, drivers, jailors, guards.....	145
Matron	1
Female detective	1
Female clerk to female detective.....	1

Total151

Fire Department—

Chief	1
Assistant chiefs, battalion chiefs	4

Captains, lieutenants	38
Master mechanic, hydrantmen	2
Engineers (fire engines)	15
Hosemen, truckmen, drivers	148
Master fire boat	1
Pilot fire boat	1
First engineer fire boat	3
Second engineer fire boat	
Stokers (fire boat and fire engines)	16
Superintendent fire alarm and police telegraph	1
Linemen	3
Electrical instrument maker	1
Total	234

Engineer's Department—

Civil engineers	10
Instrumentmen	10
Chainmen	21
Draughtsmen	4
Computers	9
Inspectors, streets, sidewalks and pipe sewers	21
Inspectors, sewers (other than pipe sewers)	3
Deputies and clerks	2
Stenographic clerks	1
Traction engineers	4
Bridge carpenters	7
Laborers	43
Cement testers	1
Total	136

Street Cleaning Department—

Superintendent	1
Foreman laborers and laborers	119
Total	120

Water Department—

Civil engineers	1
Instrumentmen	1
Chainmen	1
Draughtsmen	1
Inspectors	16
Inspectors, water pipes	1
Clerks	10
Pump engineers	10

Carpenters	1
Blacksmith	1
Metermen and tappers	4
Calkers	11
Foreman laborers and laborers	90
Total	148

Auditor's Department—

Deputies and clerks	17
Stenographic clerks	3
Total	20

Park Department—

Watchmen	2
Gardeners	2
Laborers	26
Custodian Forestry Building	1
Total	31

City Hall Department—

Pump engineers	1
Janitors, watchmen, elevatormen	9
Total	10

Pound Department—

Poundmaster, deputy poundmaster	5
---------------------------------------	---

City Attorney's Office—

Stenographers	2
---------------------	---

Treasurer's Department—

Deputies and clerks	1
Typewriters	1
Total	2

Plumbing Inspector's Department—

Plumbing inspector, deputy plumbing inspectors	4
Stenographic clerk	1
Total	5

Building Inspector's Department—

Building inspector, deputy building inspectors	3
Civil engineer	1
Stenographic clerk	1
Total	5

Harbor Master's Department—

Harbor master 1

City Sealer of Weights and Measures Department—

Sealer of weights and measures, deputy sealer of weights and measures 2

Civil Service Commission—

Stenographic clerk 1

Total number employed under classified civil service.....873

The following is a statement of the number of applications filed, the number of persons examined, the number who passed, the number who failed to pass, the number appointed, the number discharged for cause, and the number who have resigned during the year 1908:

DIVISION AND CLASS.

Division "A"—Police Service

Class 1—Captains
 Class 2—Detectives, sergeants, patrolmen, drivers, jailors, guards...
 Class 3—Matrons
 Class 4—Female detectives
 Class 5—Female clerks to female detectives.....

Totals**Division "B"—Fire Service.**

Class 1—Chief Engineer
 Class 2—Assistant Chief, battalion chiefs
 Class 3—Captains, lieutenants
 Class 4—Master mechanic, hydrantmen.....
 Class 5—Engineers (fire engines)
 Class 6—Drivers, hosemen, truckmen.....
 Class 7—Master fire boat
 Class 8—Pilot fire boat
 Class 9—First engineer, fire boat.....
 Class 10—Second engineer, fire boat
 Class 11—Stokers (fire boat and fire engines).....

Totals

DIVISION AND CLASS.	Applications.	Examined.	Passed.	Failed.	Appointed.	Discharged.	Resigned.
Class 1—Captains	7	7	4	3	0	1	0
Class 2—Detectives, sergeants, patrolmen, drivers, jailors, guards...	176	103	25	78	40	7	12
Class 3—Matrons	0	0	0	0	0	0	0
Class 4—Female detectives	4	4	2	2	1	0	0
Class 5—Female clerks to female detectives	2	2	1	1	1	0	0
Totals	189	116	32	84	42	8	12
Division "B"—Fire Service.							
Class 1—Chief Engineer	0	0	0	0	0	0	0
Class 2—Assistant Chief, battalion chiefs	5	6	4	2	2	0	1
Class 3—Captains, lieutenants	44	*43	*4	*21	4	0	2
Class 4—Master mechanic, hydrantmen	12	9	6	3	2	0	2
Class 5—Engineers (fire engines)	23	28	14	14*	7	6	1
Class 6—Drivers, hosemen, truckmen	98	62	45	17	71	6	24
Class 7—Master fire boat	0	0	0	0	0	0	0
Class 8—Pilot fire boat	2	2	2	0	2	0	1
Class 9—First engineer, fire boat	4	6	3	3	1	0	0
Class 10—Second engineer, fire boat	0	0	0	0	0	0	0
Class 11—Stokers (fire boat and fire engines)	44	38	22	16	17	2	9
Totals	232	194	100	76	106	8	40

*On December 11, 1908, 18 applicants for captains and lieutenants, fire service, were examined, and on December 28, 1908, 9 applicants for computers, civil engineering service, were examined. Markings on above papers not yet made.

DIVISION AND CLASS.

DIVISION AND CLASS.

Division "C"—Civil Engineering Service.

Class 1—Civil engineers	23	23	5	18	1	0	0
Class 2—Instrumentmen	15	14	5	9	3	0	0
Class 3—Chainmen	48	48	15	33	4	0	0
Class 4—Draftsmen (topographical)	12	13	3	10	2	0	0
Class 5—Computers	28	*29	*5	*15	5	0	0
Class 6—Draftsmen (structural)	1	0	0	0	0	0	0
Class 7—Civil engineers (Building Inspection Department)	7	7	1	6	1	0	0

Totals

134 134 34 91 16 0 4

Division "D"—Inspection Service.

Class 1—Building Inspector, Deputy Building Inspector	5	2	1	1	2	0	0
Class 2—Plumbing Inspector, Deputy Plumbing Inspector	0	0	0	0	0	0	0
Class 3—Inspectors of Streets, Sidewalks and Pipe Sewers	46	*39	*8	*21	7	0	0
Class 4—Inspectors of Sewers (other than pipe sewers)	4	3	1	2	0	0	0
Class 5—Inspectors of Bridges	0	0	0	0	0	0	0
Class 6—Inspectors Water Department	0	0	0	0	0	0	0
Class 7—Inspectors Water Pipes	21	18	9	9	2	0	1
Class 8—City Sealer of Weights and Measures (and deputy)	0	0	0	0	0	0	0

Totals

93 77 25 42 13 0 3

*On December 24, 1908, 10 applicants for inspectors of streets, sidewalks and pipe sewers, inspection service, were examined. Markings on above papers not yet made.

DIVISION AND CLASS.

DIVISION AND CLASS.

Division "E"—Clerical Service.

Class 1—Deputies and clerks	27	17	7	10	3	0	1
Class 2—Stenographic clerks	29	28	11	17	5	0	2
Class 3—Typewriters	0	0	0	0	0	0	0
Class 4—Messengers	0	0	0	0	0	0	0
Class 5—Stenographers (City Attorney and Municipal Court Dept.)	5	4	4	0	2	0	1

Totals

Division "F"—Mechanical Service.

Class 1—Superintendent Fire Alarm and Police Telegraph	1	0	0	0	0	0	0
Class 2—Linemen	7	6	2	4	2	0	1
Class 3—Pump Engineers	4	5	3	2	3	0	0
Class 4—Traction Engineers	2	0	0	0	0	0	0
Class 5—Bridge carpenters	1	0	0	0	0	0	0
Class 6—Blacksmiths	0	0	0	0	0	0	0
Class 7—Metermen and Tappers	6	0	0	0	0	5	0
Class 8—Calkers	3	0	0	0	3	0	0
Class 9—Electrical instrument makers	9	6	1	5	1	0	0

Totals

DIVISION AND CLASS.

DIVISION AND CLASS.	Applications.	Examined.	Passed.	Failed.	Appointed.	Discharged.	Resigned.
Division "G"—Miscellaneous Service.							
Class 1—Superintendent Street-Cleaning Department.....	0	0	0	0	0	0	0
Class 2—Janitors, watchmen, elevatormen	13	4	3	1	1	0	0
Class 3—Poundmaster, Deputy Poundmaster	0	0	0	0	1	0	0
Class 4—Gardeners	3	5	5	0	1	0	0
Class 5—Foremen laborers, laborers, Street Cleaning Department.....	231	168	141	27	57	14	21
Class 6—Foremen laborers, laborers, Water Department.....	141	105	83	22	108	96	26
Class 7—Foremen laborers, laborers, Park and Engineering Depts.....	87	65	55	10	19	6	11
Class 8—Custodian Forestry building	0	0	0	0	0	0	0
Class 9—Harbormaster	0	0	0	0	0	0	0
Class 10—Cement tester	3	2	1	1	1	0	0
Class 11—Cement finisher	0	0	0	0	0	0	0
Totals	478	349	288	61	187	116	58

RECAPITULATION

Applications filed, 1908	1,220
Examined, 1908	936
Passed, 1908	507
Failed, 1908	392
Appointed, 1908	383
Discharged for cause, 1908.....	33
Resigned, 1908	124

Appended to this report is a copy of the rules adopted by this commission and in force at the present date.

The expenses for the twelve months beginning January 1, 1908, and ending December 31, 1908, have been as follows:

Salary secretary	\$1,200.00
Salary stenographic clerk.....	780.00
Stationery and office supplies	189.60
Advertising	34.23
Furniture and fixtures	134.50

Total\$2,338.33

Respectfully submitted,

P. L. WILLIS,
J. W. BLAIN,
WM. L. BREWSTER.

ANNUAL REPORT —OF— PARK BOARD

Portland, Oregon, January 6, 1909.

To the Honorable Park Board of the City of Portland, Oregon.

Gentlemen: Herewith I beg to submit a report on the executive phases of the department during the period subsequent to my assuming office in March last.

In addition to a brief summary of the work of the past year there is considered the manner in which development and adequate care and maintenance ought to be provided for in the furtherance of the best interests of the parks.

City Park has virtually been, hitherto, the sole usable park among the properties owned. Purchased some years ago, when the city was yet a village, its development has been gradual and commensurate with the funds available. Constructions in it must be extended to meet the increased daily needs.

The gardenesque treatment has been materially reduced, and another season it is to be virtually eliminated, except at the entrances and in the vicinity of the overlook. The suppression of high-colored exotics, distributed in ribbons, circles and the like among features of a landscape primarily composed of native verdure is discordantly contrasting and disquieting where simplicity, subdued refinement and repose are the strong and principal existing features. Similarly the cultivation of single specimens spread promiscuously over all the lawn areas and through the woods is conducive to interest from a museum viewpoint rather than a scenic. Most of these specimens have been assembled and massed in composition to afford proper embellishment to a woodland type of scenery. This treatment is to be extended by a continuation of this work and supplementary planting on the steep turf slopes and forest areas. Even with the development of a series of local areas so as to provide a variety of scenery specially appropriate to the region, it will tend toward monotony if all the under planting is to be so low as to permit a view over it. Several restricted areas have accordingly been planted with sorts of vegetation which attain greater height at maturity. It is intended that by the installation of more lights and extra vigilance in policing

the sole objections to such treatment can be overcome to an extent sufficient to warrant the work being done.

Some paths have been introduced to follow the carriage routes, some steps and walks have been altered to provide more logical means of connection, prevent short-cutting, to consolidate or eliminate others or to develop the scenic qualities of the park as a whole. In keeping with this, several of the buildings used for housing the animals have been removed from various parts, and all of them grouped along the western border of the park.

On the completion of this work and the establishment of the plantations, the scenery will be more harmonious, natural and appropriate, besides permitting of a more economical administration.

Besides the work of planting, the gradual substitution of rustic guard rails for the laurel, cedar and privet hedges bordering walks and drives is to take place.

It will ultimately be imperative to materially widen some of the drives and walks to suitably care for the crowds of people using them. When this is done it would be far preferable to erect retaining walls rather than grade by slopes, and ruin many trees and other verdure.

The drives have been repaired, but the local stone has insufficient cementing qualities, and the customary practice with the city streets has been adopted—that of using a clay to effect this purpose. This is merely a temporary and unsatisfactory expedient, one that will be strikingly apparent when the proposed parkway is constructed, with their inducement to much automobile traffic. The ultimate solution of this is the use of tar as a binder, creating at slightly greater cost than ordinary macadam, a virtual bitulithic at once smooth, dustless and impervious to surface seepage.

Larger space was provided for several sorts of animals; two iron cages were constructed in a manner to permit of their being utilized elsewhere should it later be deemed desirable to move the menagerie. With the development of the residence property west of the park, the zoo will in all probability prove to be a highly objectionable nuisance. Should it be moved the new buildings at the new site ought to be architecturally meritorious.

On account of the restricted area available it is advised that future additions to the animal collection be limited to hardy species. It is to be remembered that animals are an incident, popular, indeed, but not an essential of park interest.

In the arranging of the animal buildings those requiring heat to properly maintain their occupants have been grouped and are heated by a single hot water system installed to replace the series of flues hitherto in use.

The greenhouses were among the most dilapidated of the buildings in the park. They have been removed and a new range built at Columbia Park. The principal recommendation urged is that adequate methods be adopted to relieve the congestion of the City Park. The adjoining 63.10 acres of land now lying idle and controlled by the Water Board, if acquired and fitted for the use of visitors, would be the most important act toward that end.

RECORD OF ZOO FROM JAN. 1, 1908, TO JAN. 1, 1909

Name.	Number.	Increase, Number.	How Increase.	Lost.	How Lost.
Cockatoos	3	..	.....	..	.....
Cockatoos, Asia	4	..	.....	..	.....
Parrakeets	2	..	.....	..	.....
Australia parrots	2	..	.....	..	.....
Australia pigeons	2	..	.....	..	.....
China pigeon	1	..	.....	..	.....
Mexican parrot	1	..	.....	..	.....
China parrot	1	..	.....	..	.....
Mexican O. parrot	1	..	.....	..	.....
Peruvian Arab bird	1	..	.....	..	.....
Rattlensake	1	..	.....	..	.....
Alligators	2	..	.....	1	Died.
Canary birds	30	..	.....	..	.....
Finch, Japan	1	..	.....	..	.....
Pigeons, Carrier	36	..	.....	..	.....
Pheasants, Golden	9	..	.....	..	.....
Pheasant, Silver	1	..	.....	..	.....
Pheasants, China	10	..	.....	..	.....
Peacocks, males	2	..	.....	..	.....
Guinea hens	5	..	.....	..	.....
Stork	1	..	.....	..	.....
Eagle, Bald Head	4	..	.....	..	.....
Eagle, Golden	1	..	.....	..	.....
Owls	5	..	.....	..	.....
Owl, snow	1	..	.....	..	.....
Alarm owl	1	..	.....	..	.....
Crow, talking	1	..	.....	..	.....
Pigs, guinea	100	..	.....	..	.....
Monkeys	15	..	.....	2	Died.
Rabbits	12	10	.....	12	Lion feed.
Lion, African	1	..	.....	..	.....
Coyotes	5	2	Donated	..	.....
Wolf, timber	1	..	Traded	..	.....
Bear, Japanese	1	..	.....	..	.....
Lynx	2	..	.....	1	Killed fighting.

RECORD OF ZOO FROM JAN. 1, 1908, TO JAN. 1, 1909—Continued

Name.	Number.	Increase, Number.	How Increase.	Lost.	How Lost.
Dogs, Alaska	2	..	.....	1	Died.
Foxes	3	..	.....	..	.....
Wildcat	1	..	Donated	..	.....
Raccoons	6	1	.....	..	.....
Badger	2	..	.....	1	Died.
Polar bear	1	..	.....	..	.....
Black bear	5	..	.....	1	Drwnd.
Kangaroo	2	..	.....	1	Killed
Beavers	2	..	.....	2	by dogs.
Seal	1	..	.....	1	Injured.
Oregon deer	6	3	Donated	3	Injured.
					1 killed
					by buck,
					2 died,
					blood
					poison.
Nose bear	1	..	.....	1	Old age
African porcupine	1	..	.....	1	Died.
Native porcupine	2	..	Donated	..	.....
Japanese deer	7	..	.....	..	.....
American elk	9	..	.....	1	Killed
					by bull.
American bison	3	1	Born	..	.....
Angora goats	5	..	.....	..	.....
Fish—Gold (12), Silver (15).....	27	..	.....	..	.....
Swans	4	..	.....	..	.....
African geese	2	..	.....	..	.....
Manchurian geese	2	..	.....	1	Died.
Wild ducks	5	..	.....	..	.....
Mandarin duck	1	..	.....	..	.....
Pekin ducks	2	..	.....	..	.....
Wild geese	3	..	.....	..	.....
Silver squirrel	2	..	.....	..	.....
Fox squirrel	1	..	.....	..	.....
Gray digger squirrel	1	..	.....	..	.....
White turkeys	2	..	.....	..	.....

PARK BLOCKS.

All these, twenty in number, were spaded during the winter of 1907 and 1908. The work was done by men suffering the aftermath of the financial panic. All told, 10,006 hours, or approximately three months of forty-eight men's service were thus gratuitously devoted to park purposes. The Associated Charities furnished the men (1,038 in number). During the spring each block was graded and seeded to turf. Every alternate block was planted to roses or tender exotics, a treatment that evoked much praise and criticism.

Criticism to the effect that the adopted treatment was not the highest type of ornamentation and that the innovation was not warranted is well taken. It is extremely gratifying to realize that public park work is to be judged by such intelligent and discriminating esthetic standards. It bodes well for the quality of the entire system if the same opinion continues to pass on all future work.

The adopted treatment justifies itself by reason of this being the only area which, by the formality of its design, and the sophisticated surroundings lends itself to that style of adornment. It is the only tract in the system where this or a similar type may be developed with so much propriety. To eliminate it here would be to abandon it in the system.

There is always a large body of the general public attracted and interested by a display of high color, worked out in geometrically arranged patterns and in contrasts. Their tastes and pleasures should be gratified in a legitimate way and opportunity afforded for their esthetic cultivation. The adopted style of treatment has that trend. Moreover, this gardenesque style is the most expensive of any in park maintenance, and it is deemed that, partly to give opportunity for a larger body of people to view the display, partly to induce a greater use of the park blocks, and partly to relieve the frequent congestion at the City Park, the policy has been warranted, and merits further continuation. It is to be remembered that the park blocks in their present state, though not exactly nondescript, fail to fulfill their highest office as an ornamental accent in the street system of the city or as a purely local park ornament. Several sorts of trees of varying shapes, ages and sizes are arranged in various regular rows. The highest development would ensue were a single sort used, all of the same age and size, and disposed in regular sequence throughout. The pleasing impression to be gained is from the precise and deliberately arranged repetition of the same form, indicating the intent and complete control the designer had in mind. Adding to this the beauty that form, proportion and the restfulness all greenery offers, in addition to the deep, rich color of the short-shorn turf, the essence of the park value of the park blocks is conceived.

The value of the park blocks as an interior foreground to a setting of public and semi-public buildings facing it from either side should be carefully regarded. It would be well worthy the expenditure of persistent effort on the part of the Board were it to bring the public to a full realization of the highest fitness of this property in a scheme of general civic ornamentation. One of the first steps in this direction would be to have the municipality commit itself to the adoption of such a programme. In this relation it is to be remembered that new court, museum and historical buildings are now projected.

During the year the trees are to be treated by removing the old knots, stubs and broken branches and limbs. Cut surfaces will need treatment, and this will comprise the limit of what may properly be done in their improvement without adopting a radical and uncalled policy.

Much more seating capacity is urgently required and should be provided early in the season.

Holladay Park has its surface roughly smoothed and laid down to turf. It was expected that some improvement could be made during the season, but the neighborhood populace are quite unanimously expecting an extension of the park toward Sullivan's Gulch. Since any extension would probably vitally affect the sort of improvement in the whole park it would be indiscreet to proceed far until the neighborhood was satisfied that it is virtually hopeless or else certain that an addition is to be made. Meanwhile the maintenance includes merely the care of turf, buildings and seats.

Albina Homestead has received but little care. The playfield and turf are kept in order, but the care of toilets comprise the main attention given there. I would recommend the improvement of this tract during the current year.

At **Columbia Park** the new greenhouses and potting shed have been erected. The surrounding territory is rapidly being occupied by dwellings, and the park is used to a very gratifying extent.

If there is to be any material improvement effected in the park system the current year, I would recommend that the major portion be on the Columbia Park. No other large and undeveloped park area is so conveniently available to large number as this, and after its development it would permit of uses such as tennis, croquet, and similar indulgences not now provided for in any of the parks.

The Forestry Building has been reshingled and the roof and window casings stained.

The defining of property bounds and the securing of title to the land should be concluded at an early day.

In size, beauty and style of architecture the Forestry building is a worthy feature of Portland's public possessions. Its usefulness

should be further extended by issuing a catalog of the exhibits. So long as Oregon's great need is immigration and development, every effort should be made to utilize the scientific and educational features of the Forestry building exhibits. The present custodian is amply qualified to prepare a catalog of scientific merit and popular instruction. It requires but a comparatively small appropriation to publish it. That this be provided, I recommend.

Macleay Park, the treasure of our present possessions, is being guarded from injury by fires and policed for the greater protection to women and children.

The flume used by a private body in hydraulic sluicing is a source of great injury to the scenery. It is hoped by the terms of the contract between the Board and the owner that the flume will be effaced by next summer. Steel spring wire fencing has been placed around the park as an assistant to policing and to define some of the boundaries in dispute. No arrests were made since, the difficulty heretofore being that hunters were unaware of their being on park property. Nowhere in the whole system is the capacity of a police officer more thoroughly tested than in Macleay Park. To maintain the necessary degree of espionage on visitors who require it, while yet acting as guide and protector for the more timid, requires unusual tact, discipline and intelligence. During the dry season it is this work and the fire-guarding that occupies practically the sole attention of the keeper. It is pleasurable to record that the acts of sheer vandalism have been very few. During the winter the removal of dead limbs and other remains of the former woodsman's slashing occupies the principal attention of the keeper. In addition, the cutting of trails or their re-opening is more or less continuously in progress.

The waste from a near-by dairy pollutes the waters of the brook. Notices proclaiming the unwholesomeness of the waters are posted along the stream, but are too frequently disregarded by the public at its peril. The Board of Health and the Food Commissioner have the case under consideration, and it is trusted an effective remedy will result.

By the statute of limitations a dairyman owning property adjoining the southwest corner of the park acquired a right of way over the park. For about twenty years he had appropriated several acres of park land to his own use, and even enclosed it by the erection of fences. The City Attorney effectively secured the removal of his buildings and fences from park property without litigation.

I would recommend that the county be requested to repair the fence along Cornell road, and that our park guard be given deputy sheriff power to enable the better policing of that part of the park

located within the confines of the county and over which I am advised the municipal police power does not extend.

At **Governor's Park** a boundary fence was erected.

Fulton Park boundary fence is under construction.

Terwilliger Park received no other attention than the customary mowing of hay. The development of this park as a whole or part of it is very desirable. The surrounding community is comparatively dense, and on the basis of mere geographical distribution some progressive steps are warranted. Accordingly I so recommend.

BATHS.

During the year a private association having had the floating bath in operation for about six years transferred the institution to the city, and it devolved upon this department to continue its operation. One of the side floats was partially dismantled, and considerable repairs were necessary before they were opened.

The general regulation heretofore in vogue was put in operation, but the usefulness of the institution was greatly impaired by reason of the unwholesome location in the river (foot of West Jefferson street). A sewer empties into the river at the foot of virtually every street on the West Side in the entire downtown section of the city. Although moored close to the channel current, the objections were never wholly or even reasonably overcome.

For the ensuing year the baths are located at the foot of East Madison street, and from last season's observations and other assurances it is hoped they may be more serviceable and more satisfactory in general. On examination by qualified judges it is probable the baths will prove to be unsafe for use another season, and if so I will later offer a communication with a recommendation for their replacement by another. Their builder has given an opinion that they outlived their natural life, and could be used another season, only with some misgivings as to their safety.

Appendix "A" records the detail of their use and revenue. I beg to recommend that during the current year the baths be absolutely free, including towel and suit throughout the day for five days in a week, and that a charge be made during two entire days of every week.

The revenue is comparatively so small in proportion to the outlay for suits, laundry, salaries and general maintenance it would be unfortunate if the very ones who would profit by and desire to make frequent use of them are deterred by the charge made. Further, that as a sanitary precaution all suits after each use by youths or adults

be sent to the laundry for scalding. The public has a right to insist that service in its behalf shall be of the best it can sustain, and any curtailment of that should come from the citizens rather than its servants.

CONCERTS.

During the season thirty-three concerts were held, as follows: Sunday afternoon, City Park; Tuesday evening, City Park; Wednesday evening, Holladay Park; Thursday evening, Plaza; Friday, evening, Albina (Russell and Knott streets).

The concerts were invariably well patronized and continued to be so in increasing numbers as the season advanced. Music-lovers were free with commendation about the class of music provided, and its rendition.

De Caprio's band of thirty-two pieces fulfilled the engagements throughout the season.

There has been a marked inadequacy of seating capacity at the concerts. I beg to recommend that further conveniences be supplied by the addition of benches.

PAPER-THROWING.

I beg to suggest the advisability of enlisting the co-operation of the general public in preventing the littering of the parks. Were it to afford some pleasure to deposit newspapers over the parks and squares it would be proper to clean up afterward without complaint, but in view of the unsightliness it causes the parks and especially the squares to present, it not only indicates a rather general abandon to negligee and carelessness, but it injures the better uses of the parks. It is perhaps largely heedlessness by persons susceptible to polite suggestion, and it would certainly operate toward the public pride, if no more, to suggest the propriety of people while in the park showing some concern about the matter.

PLAYGROUNDS.

Playgrounds used distinctively as such are under the control of the People's Institute Club.

The sociological and economic benefits of sufficient playgrounds, properly equipped, conducted and regulated, is too generally appreciated to warrant further comment here.

In the development of Columbia and Terwilliger Parks some opportunity for play can be provided this year, though complete equipment at once will not perhaps be advisable.

Playgrounds follow in natural sequence to the establishment of parks, and in some of the parks excellent playgrounds will be developed.

The deductions to be made from the experience gained by municipalities in the past few years are of great importance and profit should be taken from it when the establishment of playgrounds is once comprehensively undertaken.

It is quite generally agreed that playgrounds are not properly nor judiciously equipped without the services of a trained director to supervise and teach.

It will probably be possible to construct a modern playground this year in one of the tracts secured for park purposes, but if so, its use should be contingent upon the attendance of a director in charge; accordingly I recommend that if a proper area is available this program be initiated this season.

FOUNTAINS.

Three fountains of conspicuous architectural merit exist in the city. These are seventeen throughout the city, ten of which were graciously donated by citizens humanely inclined and largely at the solicitation of Mr. W. T. Shanahan, the secretary of the local Humane Society. I recommend that the future fountains be of stone or masonry, exclusively, and of simple supply and overflow mechanism and practical in arrangement, and, further, that metal fountains be declined absolutely.

The fountain at Washington and Burnside streets is surmounted by several electric lights. The electric light company supplied the current for these during the summer months, but has not done so during recent months.

I recommend that provision be made to have these lamps supplied with current.

CONCESSIONS.

I beg to recommend that concessions for the sale of light refreshments in the parks be let during the winter. Changing in June is undesirable to the lessees.

NURSERY.

As a matter of economy a nursery should be established for the rearing of hardy plants. I recommend that this be authorized in order that preparation of the ground may be made this season.

SCHEDULE OF SALARIES.

I beg to recommend that a revised schedule of salaries be adopted at once. To pay a draughtsman less than a watchman and a mechanic laborer's wages, and all laborers the same scale without distinction

as to capacity or efficiency, is unjust, and tends to eliminate the spirit and incentive to do one's best. There should be more opportunity to regulate inefficiency and more opportunity to reward conscientiousness and merit.

STREET TREES.

Street-tree affairs are in a very unsatisfactory state. One section of the charter, give the Board "power to regulate and control the planting, trimming, growing, use, preservation and maintenance of all shade or ornamental trees, shrubs, plants or flowers in, upon or over any street, boulevard, path or sidewalk of the city"; but the City Electrician and City Engineer also have some control. A recent opinion of the City Attorney was in effect that all the existing trees might be dealt with by any one of the several bodies; that existing trees are the property of the abutting property owner, subject to easement for public use for traffic purposes. If a tree grows into overhead wires owned by a body having a franchise to use the street, the trees must be lopped off to prevent interference with the lines and as a measure of safety.

Whether desirable or not from a sylvacultural or esthetic point of view so to do, the owner cannot be refused a permit to injure his trees if asked for on the pretext or for the purposes of clearing the wires. The outcome of this program has been intensely farcical. If the Board is so limited in its power of control as to require its ordering and concurring in acts it deems to be unwise and prejudicial to the public interest, it is a proper subject for communication to the legislative body of the government with a request that responsibility for its affairs be taken entirely from the Board, or the power sufficiently extended and made exclusive and absolute to the end that the power of control will exist in fact.

I deem it a disgrace that a municipal park board should be responsible for the present state of the city's street trees without adequate power to remedy it.

It is to be remembered that the stringing of overhead wires and the cultivation of handsome street trees are opposed to one another; it is but a question of time when one must give way in favor of the other.

According to the City Attorney, there is no question but that the Board has full control over any street tree it plants. Under the present circumstances trees are generally provided with too narrow a planting strip. As a consequence, just about the time trees begin to assume their most handsome appearance, the roots force out curbs and heave walks. Where the planting strip cannot be sufficiently widened to provide reasonable conveniences for the tree, the planting

should be omitted. Many of the roadways of public streets could be advantageously narrowed without ensuing harm. The traffic on the streets of a city's system are not uniform, nor should the provisions be identical. Indeed, there is a wide range in actual need of conveniences, and to recognize it and endeavor to solve it would at the same time be a solution of the worst difficulty now confronting a progressive and systematic street-tree project. I recommend that street-tree planting under municipal control be inaugurated this year.

RENAMING PARKS.

Some of the names now in use for park property suggest neglect, paucity or crudeness. A public possession might well be named so as to be descriptive as to scenery, historically, topographically or in memoriam; it should in any case be euphonious and sufficiently brief to come easily into common use. Lewis and Clark, also Multnomah, have been suggested for City Park, Albina Square for the Albina Homestead Tract; Federal Park for the North Park blocks, and Civic Parkway, also Park Panhandle, have been suggested for the South Park blocks. Except the above, parks seem to be satisfactorily named. I recommend further consideration of this matter with a view to the adoption of a system of satisfactory park nomenclature.

LANDS.

Several of the existing park properties have been acquired by dedication; others were secured by purchase, and some by gift. It is worth while to point out that establishing a park is one of the most satisfactory forms of public benefaction. They are cosmopolitan in serving all classes, always useful in supplying an edifying refreshment to all ages and in all moods, they are zealously guarded by all the people when once owned by them; they increase in value and service with age, and are not prone to being perverted into other uses or to defilement.

As a people we are coming to regard wealth as a position of responsibility and trusteeship, and are ready to suitably honor one who can creditably acquit himself of the task. This is a typical American attitude and temperament, and merits rehearsal in a city supposed to be 95 per cent American born. There are always persons who wish to show their gratitude to a city in which they prospered, or in a spirit of pride or public benefaction they are ready to bestow some gift to the public. Knowing the desire, hope and readiness of the Board to facilitate acts of individuals toward that end, I believe a public announcement of its feelings will tend to bring about acts similar to those of the late Donald Macleay and Governor Pennoyer. The munificence and appreciation of the public toward these bene-

factors seems to extend in scope and intensity with the advance of time. That it will so continue, as it does in parallel cases in other municipalities is reasonably to be anticipated.

ORGANIZATION.

With the expansion of the system the need for better organization is imperative.

During the process of land acquirement the existing legal department can search titles at the registry of deeds, and on the result of its findings can prepare deeds and necessary certificates of title to the City Auditor. Likewise claims can also be legally negotiated by it.

In any extension work, and especially if construction work is to accompany, it is customary to retain professional advisers to guide and assist. Whether in the outlining of a general system or in the preparation of general construction or detailed plans, such advice is always valuable, even if not followed in every particular. It generally proves to be well worth its cost. Accordingly, I recommend that a landscape advisor be engaged for a period as may appear to you wise.

One of the principal needs of this department are engineering and office facilities. The present system of having engineering done is cumbersome and unsatisfactory. With construction work to be undertaken and the need of engineering services on it; the need of surveys as a preliminary to land takings and their use as a basis for the preparation of plans for the use of the legal department such as are required for claims, conveyancing and drawing of contracts; all these require the services of an engineering corps and a draughtsman. For reasons of efficiency and economy, these employees should be under the direct supervision of the head of the department in which they are engaged. At present the charter opposes this arrangement, but an alternative founded on the same basis as that in vogue in the Water Department would be acceptable. I recommend that the above facilities be provided.

ACCOUNTING.

A modern system of accounting has been ordered by the Board. While avoiding cumbersome and undue detail, some system to check costs, disbursements and accomplishments is highly desirable. It should be carried to an extent sufficient to permit of an annual statement being made that would enable the public to make an intelligent analysis of it. The regular routine of the office and this added clerical assistance requires the services of a clerk, and I recommend that it be provided.

The frequent cordial assistance given by the City Attorney and

his corps of assistants is especially to be acknowledged; the Chief of Police, City Engineer and City Auditor have also facilitated the workings of this department, and deserve special note.

APPENDIX "A"—BATHS.

Baths opened July 19; closed September 12.

Receipts.

July	\$ 47.80
August	62.20
September	9.00
Total	\$119.00

Attendance.

Boys	8,881
Girls	812
Men	345
Women	96
Total	10,134

Respectfully submitted,

E. T. MISCHE, Parkkeeper.

ANNUAL REPORT

—OF—

HARBOR MASTER

To the Honorable Mayor and Executive Board.

Gentlemen: I have the honor to submit my annual report as Harbor Master for the year 1908, with the shipping record of the port appended.

A daily inspection of the harbor has been maintained and regulations and ordinances enforced whenever practicable. One thousand copies of the ordinances governing Portland Harbor have been printed in the French and English languages and are handed to the masters of vessels arriving at this port for their guidance.

Seven hundred and one vessels were boarded and close observation kept of them while in port, only one foreign vessel seriously breaking a law, the French ship Ville Dijon, Captain Rabecq, who caused a large quantity of loose cement and other debris to be thrown into the river from his vessel. He was placed under arrest and convicted in the Police Court. A fine of \$125 was imposed.

The speeding of steamboats in the harbor, causing damage to vessels made fast to docks, has practically been eliminated. But two arrests were caused by this office, convictions being found in both cases. The speed law as in force by this city has been adopted by the United States Government, and a fine of \$500 is imposed upon any person being convicted of exceeding the speed limit.

Three arrests were made for throwing refuse lumber, ashes and other debris into the river that caused the shoaling of the river, convictions being found in each case.

RECOMMENDATIONS

I am pleased to be able to note the general tending of all persons concerned towards the observation of the rules and regulations of the harbor, which means a great deal to the interest of the City of Portland as a shipping center.

The sanitary conditions along the water front in some places are in a poor condition, openings of sewers being too close to shore during the low water stage. I would recommend that these sewers be carried into deep water as far as practicable.

The lack of facilities for ships at the docks to obtain water is apparent to every master of a vessel entering the port. Stevedores on these vessels are caused to drink water that has been in tanks that probably have not been cleaned in a long time, laying these people liable to disease and endangering the city. I would therefore recommend that steps be taken towards the installing of hydrants in suitable places on docks of this City where none are at present time.

In the matter of the public baths, I would recommend that the same be discontinued, their present condition being not the best and according to the builder are at present in a state of decay. Six years is given to the life of a structure of this kind. These baths are now past that limit.

A suitable public bath could be erected on shore distant from the water front, which is not the most desirable place to have children congregate. This building could be steam heated and operated the entire year. A small charge to adults being made would in a short time make these baths pay for themselves, as they do in other cities.

The landing stage at the foot of Stark street, owned by the City, should be put in first-class condition, this place being used by the public in general, shipmasters and the crews of naval vessels visiting this port.

The importance of this city as a shipping center will easily be seen by the record of the shipping for the month of October, 1908, which is given here, exceeding our export of grain for the previous year by nearly 1,000,000 bushels and nearly doubling the grain exports of the entire Puget Sound.

At the request of the commander of the United States cruiser Charleston and the order of his Honor, Mayor Lane, two three-pile dolphins were placed at the mooring place for this vessel and an old dolphin strengthened with two more piles, giving great satisfaction to the admiral, who expressed himself most favorably inclined towards another visit to Portland, which means a great deal to this City.

The following naval vessels visited Portland this year: United States cruiser Charleston, Captain Beatty in command, flagship of Admiral Swinburne; gunboat Yorktown, Captain Glynn in command; torpedo boats and destroyers Perry, Fox, Davis and Larimer; Italian cruiser Puglia, Captain V. Cusani Visconte.

The sunken barge Monarch, sunk in the river close to the east bank of the river, a short distance north of the steel bridge, was destroyed, small charges of dynamite being used. The wreckage was towed to the moorings of the United States Engineers, under whose direction and expense this menace to navigation of the harbor was removed.

Seven hundred and one vessels were boarded on their arrival.

Thirteen thousand and thirty-six passengers arrived by ocean-going vessels.

Thirteen thousand four hundred and seventy-five passengers departed by ocean-going vessels.

Fiscal year ending June 30—

	1908	1907
No. of vessels entered from foreign ports.....	63	51
No. of vessels cleared for foreign ports.....	161	121
No. of vessels entered from domestic ports....	638	507
No. of vessels cleared for domestic ports.....	523	443
Value of exports, 1908.....	\$17,658,819	
Value of exports, 1907.....	11,826,268	

Gain over year 1907.....\$ 5,832,551

Fifteen oil tank steamers are employed in carrying fuel oil from Southern California to tanks on the Willamette River. The following amount was delivered during the fiscal year:

Fuel oil, barrels	2,235,852
Refined oil, gallons	2,897,414
Gasoline, gallons	905,963
Total tonnage coastwise entered	820,496
Total tonnage coastwise cleared	557,396
Total tonnage foreign entered	140,811
Total tonnage foreign cleared	81,523

Respectfully submitted,

J. SPEIER,
Harbor Master.

PORT OF PORTLAND, OREGON

Principal exports, by commodities, for fiscal year ending June 30, 1908:

	Quantity.	Value.
Autos and cycles.....		\$ 13,133
Barley, bushels	795,275	562,878
Cotton, pounds	554,666	55,447
Lumber, M. feet	100,586	1,405,492
Wood mfs., other		13,149
Machinery		173,133
Paper, printing, pounds	1,480,677	30,558
Tobacco, pounds	259,654	33,409
Wheat, bushels	13,411,581	12,053,767
Wheat flour, barrels	858,845	3,148,434

And smaller quantities of fruits, meats, vegetables, nursery stock, etc., to make total exports for fiscal year.....\$17,658,819

Exports, by countries, for fiscal year ending June 30, 1908:

Australia	\$ 491,009
British India	22,793
China, Japanese	20,178
Chinese Empire	840,565
East Indies, Dutch	9,545
Egypt	912,275
Hongkong	2,029,379
Japan	1,692,344
Korea	70
New Zealand	9,500
Panama	98,734
Peru	95,107
Philippine Islands	220,133
Russia, Asiatic	303,141
South Africa, British	225,431
United Kingdom	10,688,615
Total	\$17,658,819

Principal imports, by commodities, for fiscal year ending June 30, 1908:

	Quantity.	Value.
Bags, jute, pounds	8,053,684	\$ 533,781
Burlap, pounds	4,120,971	263,593
Cement, pounds	194,600,036	638,908
Coal, tons	54,406	131,589
Coke, tons	3,863	19,623
Coffee, pounds	86,399	10,858
Earthenware		103,945
Firebrick, tons	2,271	8,411
Iron, pig and bar, tons	7,200	136,402
Malt liquor, gallons	9,026	8,859
Manila, tons	911	135,096
Other fibers, tons	203	25,408
Matting, square yards	1,182,544	91,033
Oil, nut, gallons	10,535	5,670
Oil, olive, gallons	6,161	8,215
Rice, pounds	9,494,598	231,481
Silk, raw, pounds	46,416	224,913
Spices		39,253
Spirits, gallons	26,916	28,687
Sulphur, tons	4,751	84,988
Tapioca, pounds	269,624	8,592
Tea, pounds	1,420,329	252,361

Tin, in bars, pounds	376,357	118,860
Toys		55,397
Wood manufactures		17,126

And smaller quantities of cotton, metal,
silk and wood manufactures, etc., to
make up total imports for fiscal year.....\$3,758,752

Imports, by countries, for the fiscal year ending June 30, 1908:

Australia	\$ 135,061
Austria-Hungary	12,135
Belgium	171,565
British India	792,323
British East Indies, O.....	15,476
Canada	23,428
Chile	111
Chinese Empire	128,779
Cuba	13,611
Denmark	177
Dutch East Indies	10,858
France	61,896
Germany	375,555
Greece	6,485
Hongkong	173,900
Italy	6,660
Japan	890,025
Korea	222
Malta	2
Mexico	712
Netherlands	6,295
New Zealand	16,408
Norway	10,669
Philippine Islands	139,318
Russia	447
South Africa, British	4
Spain	2,010
Straits Settlements	143,541
Sweden	34,709
Switzerland	159
Turkey in Europe	681
United Kingdom	585,530
Total	\$3,758,752

ANNUAL REPORT —OF— GARBAGE CREMATORY

Portland, Oregon, December 31, 1908.

To the Honorable Mayor and Board of Health of the City of Portland, Oregon.

Gentlemen: As Superintendent of the Garbage Crematory, permit me to submit the following report for the year ending December 31, 1908:

Amount of garbage reduced.....10,690½ tons
Amount of garbage dumped on dry dump..... 728 tons

Number of Animals Cremated—

Horses	448
Dogs (pound)	835
Dogs (other)	949
Cows	46
Calves	13
Rats	16,179
Deer	1
Hogs	2
Amount of sawdust used.....	2,071 loads
Amount of slab wood used.....	315 loads
Average cost per ton	\$ 1.56
Amount appropriated for this department.....	17,020.00
Amount expended, year ending December 31, 1908.....	16,995.36
Amount unexpended	\$ 24.64

Respectfully submitted,

C. L. DAGGETT,
Superintendent of Crematory.

ANNUAL REPORT —OF— POUND MASTER

To the Mayor and Executive Board, City of Portland, Oregon.

Gentlemen: The undersigned, Poundmaster of the City of Portland, Oregon, respectfully presents the following report for the year 1908:

Month.	Horses, No. of.	Cattle, No. of.	Dogs, No. of.	Other animals.	Amount paid for stock redeemed.	Amount paid for stock sold.	Amount collected for feeding at	Total City Barn.
January	19	14	14	5	\$ 86.25	\$ 85.75	\$ 4.75	\$ 176.75
February	5	21	21	..	57.50	7.50	.50	65.50
March	7	9	132	..	66.50	.....	1.50	68.00
April	9	17	90	..	76.50	1.00	2.50	80.00
May	5	43	52	..	127.75	.....	8.25	136.00
June	12	10	25	..	49.25	165.00	1.00	215.25
July	18	29	36	..	112.50	72.00	2.50	187.00
August	11	19	40	..	77.50	.....	.75	78.25
September	7	12	137	..	72.25	54.00	1.25	127.50
October	2	21	168	..	130.65	.....	5.50	136.15
November	5	17	119	..	75.00	13.00	2.00	90.00
December	9	14	31	..	36.50	62.00	1.75	100.25
Total	109	226	865	5	\$968.15	\$460.25	\$32.25	\$1,460.65

Dogs killed	552
Dogs sold	75
Unlicensed dogs redeemed	115
Licensed dogs redeemed	110
Dogs given away	13

Total	865
Dead dogs picked up	331

January 29, one horse condemned and killed by humane officer.

F. W. REED, Poundmaster.

ANNUAL REPORT —OF— MUNICIPAL COURT

To the Honorable Mayor of the City of Portland, Oregon.

Dear Sir: The following is the report of the Municipal Court for 1908:

During the year 8,714 cases were docketed in said court; 7,669 being City cases and 1,045 State cases, for a detailed description of which you are referred to the report of the Chief of Police, page —. Of the State cases 235 persons were held to answer to the Grand Jury; 165 were sentenced for misdemeanors and committed to the County Jail for a term aggregating 11,508 days. City prisoners were committed to the City Jail and 324 of them were transferred to Kelly Butte for a term aggregating 12,629 days.

The moneys received from fines, forfeitures and costs:

January	\$ 2,777.50	July 8 to 31.....	\$ 1,158.50
February	2,989.50	August	2,161.00
March	1,366.50	September	1,699.50
April	1,578.00	October	2,929.50
May	982.00	November	3,068.50
June	2,703.00	December	2,850.00
July 1 to 8.....	210.00		

\$12,596.50

\$13,867.00

By Judge Cameron,
F. D. Hennesy, Clerk.

By Judge Van Zante,
J. T. Milner, Clerk.

Total, 1908\$26,463.50

FINANCIAL STATEMENT

Receipts—From July 8 to December 31, inclusive—

From predecessor	\$ 749.50
For bail	52,813.00
For fines	2,615.00
For costs	185.00
Total cash received.....	\$56,362.50

Disbursements—From July 8 to December 31, inclusive—

Remitted to City Treasurer, fines, forfeitures and costs....	\$13,867.00
Bail refunded	38,478.50
Balance on hand.....	4,017.00
Total	\$56,362.50

Inventory.

1 Roll-top desk	\$ 50.00
1 Roll-top desk	30.00
1 Flat-top desk	15.00
3 Chairs	10.00
1 Safe	50.00
1 Filing cabinet	10.00
Miscellaneous blanks, etc.	75.00
Office supplies	10.00
Total	\$250.00

RECOMMENDATIONS

Portland should have a Municipal Court having jurisdiction of all offenses, forfeitures or penalties declared or given by the Charter or City ordinances, and also having ex-officio jurisdiction of all criminal and civil matters within the limits of the City of Portland now performed by the Justices of the Peace.

Criminal jurisdiction alone cannot be given under the Constitution, and an act by the Legislature, together with amendment of the Charter will be necessary to consolidate the Municipal and Justice of the Peace Courts. If such court could be given civil jurisdiction of matters in controversy where amounts did not exceed the sum of \$500, it would relieve the Circuit Court.

Such Municipal Court should have a clerk and a deputy clerk for each department, such clerk to have custody of the files and records of such court, and receive and disburse for and on behalf of such court all moneys deposited for bail, fines, fees and costs, and such clerk and his deputies should be authorized to administer oaths and to take affidavits, issue summons, subpoenas and writs of attachment and execution and warrants of arrest, and to fix cash bail and endorse the same on such warrants.

There should be someone at the Police Station, at all hours of the day and night, authorized and empowered to prepare complaints and informations and to issue warrants of arrest. This would expedite the apprehension of criminals and would assist in properly and speedily disposing of the work in such court.

At present an average of thirty cases per day are tried and the work is rapidly increasing. The facilities of the court are wholly inadequate to properly dispose of this work. An examination would convince the most conservative that great changes are needed in this department. The work performed and records kept are not satisfactory. The reason is that we have not the time nor room nor help to do otherwise.

The Chief of Police has made reference, in his report, to the need of some one at the station authorized to issue warrants, and that, together with a deputy clerk in the clerk's office, are the urgent needs of this department.

Respectfully submitted,

JOHN VAN ZANTE,
Municipal Judge.

ANNUAL REPORT —OF— CHIEF OF POLICE

Portland, Oregon, December 31, 1908.

To the Honorable Harry Lane, Mayor, and the Members of the Executive Board.

Gentlemen: I herewith respectfully submit to your honorable body my fourth annual report of the Police Department, being for the year ending December 31, 1908, together with a statement of the expenditures for the past year and also an estimate of expenses for the incoming year, 1909. This report will also show in detail the status of the force, its numerical strength, roster, etc., and the work performed by them during the past year. It will also contain a few recommendations for needed equipments which, in my opinion, are absolutely necessary to improve the police service in this City. Under present conditions to police the large area of our City with no other facilities at hand than one station to operate from and one patrol wagon to answer calls from the whole city and one little cramped jail to take care of those imprisoned it is next to impossible to give satisfactory police service, and in my judgment the police have done exceedingly well and performed their duties as best they could with the means at their command. In order to improve the service I would respectfully recommend that the East Side station be erected at the earliest possible date, with a stable to be built in connection therewith for patrol wagon and the horses for the mounted patrolmen on the east side of the river, with the station to be provided with cells and jail room sufficient for about forty prisoners, to relieve the jail conditions at the City Jail on the West Side. I further recommend that a new patrol wagon and horses be purchased for use of the East Side Station and that a light conveyance (horse and buggy) be provided for each station for the use of the night captains and station officers in order to quickly dispatch officers after cars stop running for the night. This will be a great help for the night work of the police. I also recommend the extension of the police 'phone system. According to the franchise of the Home Telephone Company they are obliged to add 35 new stations every year to the 'phone system of the Police Department until the number of 300 is reached,

the Police Department to furnish the boxes for the 'phones, amounting to about \$12 apiece.

I also again call the attention of your honorable body to the great need of an emergency hospital and recommend that steps be taken at once to install such a place in connection with Police Headquarters where emergency cases can be treated and taken care of. At present we are obliged to take all cases coming to our notice to the St. Vincent's and Good Samaritan Hospitals, but there are numerous cases which ought not to be taken to the hospital and others which the hospitals will not accept, such as persons suffering with delirium tremens, alcoholism, etc., but they have to be taken care of somewhere and the jail is no place for them; therefore the emergency hospital is the only means of relief.

I would also recommend again that steps be taken to place a clerk or deputy clerk of the Municipal Court at Police Headquarters at night in order to make complaints and issue warrants for people calling at the station for such at night. This would relieve the situation and give better satisfaction to the public.

In conclusion, I thank your honor for the patience shown me and support and counsel given at all times. I also thank the Police Committee of the Executive Board for the very earnest interest they have taken in police matters and assisting in establishing and maintaining good order and discipline in the department and for their valuable advice given at all times.

Respectfully submitted,

C. GRITZMACHER,
Chief of Police.

DETECTIVE DEPARTMENT

I have the honor to make the following report of the work done by the detective department for the year of 1908, showing the valuation of the property recovered and returned to owners, number of persons arrested in other cities and returned here for trial and cases investigated during the year:

During the past year there were 34 fugitives from justice returned to this City. We have also investigated 1,849 cases during the year, and one detective has spent nearly all his time investigating letters and communications which is not included in this report of investigation. No record was kept of letters and communications of this kind until September 1, and since that time we have handled 238 letters, all of which have been reported on and answered. In the last year we have recovered and returned to owners property of the value of \$10,921.55, as near as we can estimate.

This month has been the worst of any of the year for petit

crimes and holdups, the worst of all being the East Side Bank robbery, on which case two detectives are still working. There has been several cases of holdups reported during the past month, all of which were cleared up by the criminals being captured and a number of them being sent to the penitentiary. Taking everything into consideration, I think this branch of the service has done very well.

The above is an extract from the report of Sergeant C. E. Baty, Acting Captain of Detectives.

STATUS AND NUMERICAL STRENGTH OF THE POLICE FORCE

Strength of force January 1, 1908, members.....	130
Appointed since that date.....	40—170
Resigned	11
Discharged	7
Died	2—20—150
Woman's auxiliary	2
	152.

Total strength of force December 31, 1908, 152, consisting as follows:

- 1 chief.
- 3 captains.
- 9 sergeants.
- 7 detectives.
- 1 matron.

129 patrolmen.

From the list of patrolmen are detailed for special duty as follows:

lows:

- 1 City Hall officer.
- 1 officer for Steel Bridge.
- 1 officer for Postoffice.
- 7 plain clothes men.
- 1 harbor officer.
- 3 patrol wagon drivers.
- 3 jailers.
- 3 desk men.
- 3 clerks.
- 4 crossing officers.
- 1 humane officer.

This leaves an actual patrol force of 101 men, divided into three reliefs. This is not sufficient to cover the large territory of our City properly, and I therefore recommend that 40 more patrolmen be added to the force at the earliest opportunity.

ROSTER OF THE POLICE DEPARTMENT

December 31, 1908

C. Gritzmacher	chief police
J. T. Moore	captain police
C. H. Bailey	captain police
E. A. Slover	captain police
C. E. Baty	sergeant police
E. W. Cole	sergeant police
J. A. Goltz	sergeant police
D. Endicott	sergeant police
Joe Kienlen	sergeant police
Joe Keller	sergeant police
Thos. Kay	sergeant police
B. F. Smith	sergeant police
E. L. Crate	sergeant police
C. R. Hellyer	detective
H. H. Hawley	detective
C. H. Tichenor	detective
P. R. Maloney	detective
J. H. Price	detective
Thos. Coleman	detective
Glenn Howell	detective
Mrs. S. Simmons	matron
Anderson, P. C.	patrolman
Adams, Geo.	patrolman
Anundson, A. O.	patrolman
Adams, Ellsworth	patrolman
Addison, John B.	patrolman
Arnold, S. S.	patrolman
Abbott, J. E.	patrolman
Barter, R. W.	patrolman
Burke, Joseph	patrolman
Burke, Edward	patrolman
Blackman, A.	patrolman
Burri, John	patrolman
Bales, H. C.	patrolman
Burchell, W. A.	patrolman
Barzee, C. L.	patrolman
Bewley, E. L.	patrolman
Branch, Ben	patrolman
Burks, R. E.	patrolman
Bigelow, A.	patrolman
Bunn, W. W.	patrolman

Circle, H. A.	patrolman
Carr, Wm.	patrolman
Croxford, G. E.	patrolman
Carlson, H. L.	patrolman
Courtney, W. P.	patrolman
Craddock, R. H.	patrolman
Casey, T. J.	patrolman
Cooper, A. A.	patrolman
Cory, Mila E.	patrolman
Ehmsen, G. H.	patrolman
Edgerton, J. J.	patrolman
Evans, L. K.	patrolman
Epps, W. C.	patrolman
Ellis, R. J.	patrolman
Evert, B. R.	patrolman
Fones, J. P.	patrolman
Field, R. H.	patrolman
Fuller, G. E.	patrolman
Galbraith, H. A.	patrolman
Graves, F. A.	patrolman
Gustafson, A. L.	patrolman
Gruber, M. E.	patrolman
Gill, J. C.	patrolman
Gould, J. L.	patrolman
Hill, C. B.	patrolman
Hoesley, Jacob	patrolman
Hirsch, L.	patrolman
Holtz, Henry	patrolman
Humphrey, W. D.	patrolman
Harms, L. A.	patrolman
Hunter, C. F.	patrolman
Henson, C. D.	patrolman
Hunter, J. M.	patrolman
Hepner, F. D.	patrolman
Hyde, W. H.	patrolman
Holterman, F. G.	patrolman
Howard, C. F.	patrolman
Inskeep, J. W.	patrolman
Inskeep, C. A.	patrolman
Johnson, Ernest	patrolman
Jenkins, L. V.	patrolman
King, C. H.	patrolman
Keith, J. E.	patrolman
Klingel, C. C.	patrolman

Lytle, Stark	patrolman
Lillis, M. E.	patrolman
Leisy, Douglas	patrolman
Larfield, G. G.	patrolman
Leavens, F. E.	patrolman
Maloney, J. C.	patrolman
Murphy, J. J.	patrolman
Mallett, Fred	patrolman
Mackey, J. J.	patrolman
McCullough, John	patrolman
Murray, G. B.	patrolman
Marsh, E. G.	patrolman
Madden, L. W.	patrolman
Maddux, C. W.	patrolman
Nelson, O.	patrolman
Newell, L. A.	patrolman
O'Brien, J. W.	patrolman
Ogg, Jefferson	patrolman
Patten, Frank	patrolman
Porter, Chas.	patrolman
Peterson, Ben	patrolman
Portwoods, J. O.	patrolman
Peterson, B. W.	patrolman
Parker, H. E.	patrolman
Pechin, E. S.	patrolman
Potter, C. T.	patrolman
Pressey, A. L.	patrolman
Quinton, John	patrolman
Roberts, Grif	patrolman
Richards, G. L.	patrolman
Riley, Harry	patrolman
Raney, H. S.	patrolman
Rudolph, M. M.	patrolman
Robson, W. E.	patrolman
Rupert, C. J.	patrolman
Sloan, M. F.	patrolman
Stuart, R. M.	patrolman
Sinnott, E.	patrolman
Sorenson, A. O.	patrolman
Sherwood, B. F.	patrolman
Stahl, R. H.	patrolman
Small, A. C.	patrolman
Spivey, G. B.	patrolman
Shaffer, C. E.	patrolman

Swenness, T. P.	patrolman
Stanton, H. L.	patrolman
Stone, L.	patrolman
Thompson, J. M.	patrolman
Teevin, W. F.	patrolman
Thorpe, E.	patrolman
Tennant, C. A.	patrolman
Trout, F. J.	patrolman
Venable, Chas.	patrolman
Vessey, S. B.	patrolman
Van Overn, J. P.	patrolman
Wendorf, J. L.	patrolman
Welch, A. C.	patrolman
Wanless, F. E.	patrolman
Wilson, H. C.	patrolman
Wade, B. F.	patrolman
West, F. M.	patrolman
Wellbrook, John	patrolman
West, Frank G.	patrolman
Crampton, E. G.	patrolman
Baldwin, Lola G.	detective
Sargent, Lucy	clerk to female detective

APPROPRIATIONS AND EXPENDITURES OF THE POLICE DEPARTMENT FOR THE YEAR 1908

Department appropriation	\$190,000.00	
For City Hall officer	1,200.00	
For women's auxiliary	3,000.00	
For ten extra patrolmen	4,000.00	
		\$198,200.00
Salaries	\$176,845.02	
Meals for prisoners (City Jail and Kelly Butte)	4,706.94	
Photographing of criminals	232.50	
Telegraphing	315.63	
Telephoning	262.21	
Women's auxiliary	464.83	
Buying new horses	440.00	
Repairing old patrol wagon	73.05	
Police 'phone reporting system	828.48	
Police stables (feed for and caring of horses)	3,028.84	
Miscellaneous expenses (including fuel, printing, stationery, harness and equipment for mounted force and all expenses of and supplies for the City Jail)	3,806.41	
New lot for East Side Station	3,850.00	
		\$194,853.91

ESTIMATE OF EXPENSES OF THE POLICE DEPARTMENT FOR THE YEAR OF 1908

One chief of police at \$225 per month.....	\$ 2,700.00
Four captains at \$150 per month.....	7,200.00
Nine sergeants at \$115 per month.....	12,420.00
Ten detectives at \$115 per month.....	13,800.00
One matron at \$100 per month.....	1,200.00
One hundred and sixty-five patrolmen at \$100 month	198,800.00
One new patrol wagon	600.00
Repairs to old patrol wagon.....	250.00
Feed for and caring of horses.....	4,250.00
Buying horses	900.00
Veterinary surgeon	200.00
Equipments, repairs, harness, mounted service and stables	500.00
Supplies for City Jail.....	250.00
Feeding prisoners at Kelly Butte.....	2,500.00
Feeding prisoners at City Jail.....	2,800.00
Blankets, bedding, etc., at police building.....	200.00
Plumbing and locksmith	350.00
Repairs and painting to police building.....	500.00
Fuel for jail and police offices.....	1,000.00
Rent for detectives' offices.....	500.00
Installing new patrol boxes (30).....	425.00
Books, records, etc., printing and stationery...	750.00
Incidentals	1,000.00
East Side Police Station and equipment.....	25,000.00
Female detective (salary)	1,800.00
Clerk for female detective (salary).....	720.00
Expenses of female detective department....	600.00
Telegraphing	400.00
Telephoning	300.00
Photographing criminals	250.00
	\$282,165.00

NUMBER AND CAUSES OF ARRESTS FOR 1908

Total number of arrests	13,449
Total number of males	13,071
Total number of females	378
Total number of foreigners.....	3,367
Total number of minors	662
Total number of lodgers	571

Attempt to extort	5
Adultery	10
Assault and battery	292
Assault with dangerous weapon.....	58
Attempt to commit rape.....	7
Abusive language	87
After hours	495
Buying and receiving stolen property.....	2
Burglary	21
Contempt of court	24
Cruelty to animals	49
Carrying concealed weapons	108
Disorderly conduct	230
Drunkenness	5,391
Drunk and disorderly	319
Destroying personal property	6
Fighting	227
Fugitives from justice	29
Contributing to delinquency of minor.....	8
Held for Juvenile Court.....	121
Gambling	860
Held as witness	59
Indecent and immoral act.....	163
Indecent exposure	13
Incest	1
Insane	72
Lottery tickets in possession	48
Larceny	235
Larceny in a store	24
Larceny in a dwelling	55
Larceny by bailee	19
Lewd cohabitation	29
Minors in saloons	43
Minors smoking cigarettes	48
Maintaining bawdy house	2
Night walking	15
Obtaining money by false pretenses.....	51
Peddling without license	45
Prisoners en route	34
Surrendered by bondsmen	2
Drug stores no license	3
Defrauding inkeepers	16
Dentists no license	3
Deserters from United States Army.....	12

Resisting officers	42
Runaway children	58
Highway robbery	39
Refusing to move on	42
Soliciting prostitution	32
Selling liquor, no license.....	11
Selling lottery tickets	12
Saloon open after 1:00 a. m.	29
Saloons open on Sunday	43
Sturdy beggars	108
Trespass	62
Suspicious persons	10
Threatening to kill	33
Using profane language	82
Vagrancy	1,301
Violating other city ordinances.....	1,000
Violating health ordinance	93
Delirium tremens	21
Operating lottery game	7
Visiting lottery game	11
Polygamy	4
Exhibiting indecent pictures	4
Seduction	3
Sodomy	5
Selling liquor to minors.....	4
Grand larceny	1
Murder	12
Manslaughter	3
Bribery	3
Forgery	16
Discharging firearms in city limits.....	15
Bicycle lights out	5
Kidnapping	4
Larceny by embezzlement	24
Morphine in possession	21
Arson	2
Practicing medicine, no license	6
Opium in possession	29
Keeping house of prostitution	9
Defacing buildings	5
Dumping garbage in streets	6
Expectorating on sidewalk	6
Violating Sunday closing	63
Vicious dogs at large.....	5

MISCELLANEOUS

Attempted suicide	27
Accidents	158
Burglaries reported	64
Dangerous bridges reported	41
Dead bodies found	17
Dead animals reported	357
Defective sewers reported	88
Disturbances suppressed	360
Fire alarms given	252
Injured persons assisted	165
Intoxicated persons assisted home	608
Lost children reported	174
Larcenies reported	1,222
Nuisances reported	2,492
Holdups reported	34
Sidewalks reported for repairs.....	775
Street obstructions reported	527
Stray teams put up	123
Water running to waste reported.....	170
Witnesses summoned	2,070
Defective arc lamps reported	2,853
Prisoners transferred to Kelly Butte.....	329
Cost of prisoners' board, Kelly Butte.....	\$ 2,022.50
Cost of prisoners' board, City Jail.....	2,684.44
Municipal Court receipts	26,441.50
Drunks discharged without trial.....	4,735
Vagrants (box car sleepers, etc.) discharged with trial.....	1,000
Money collected by Police Department for removal of dead animals, amount being turned over to City Treasurer....	\$ 531.00

INVENTORY

First Floor, Chief's Room—

One roll-top desk, 5 chairs, 1 table, 1 cuspidor, 1 safe, 4 lockers.

Clerk's Office—

One letter file case, 1 typewriting desk, 1 roll-top desk, 1 telegram case, 2 typewriters, 2 safes, 7 lockers, 7 boxes letter files, 1 counter with lockers attached, 1 chair, 1 evidence record book, 1 newspaper clipping book, 10 record books, 1 small dictionary, 1 code, 1 letter press, 1 eyelet machine.

First Floor, Jail—

Ten cells with bunks complete, 2 cells without bunks, 1 bath room with bath tub, 2 heating stoves, 1 medicine locker, 2 wash tubs.

Captain's Office—

One official bulletin, 6 lockers, 2 desks, 1 safe, 2 chairs, 1 stool, 2 cuspidors, 17 records of arrest, 17 index books, 15 record books, 2 clocks, 2 benches, 2 inkwells, 1 heating stove, 1 stove poker.

Second Floor, Officers' Assembly Room and Annex—

Eighty-eight lockers, 15 chairs, 2 stepladders, 2 heating stoves, 1 coal bucket, 3 tables.

Municipal Court Room—

Forty-three chairs, 1 chair (judge's), 2 desks, 2 tables, 1 heating stove, 2 cuspidors, 4 benches (for visitors), 3 benches (for prisoners), 1 coal bucket, 1 reporters' table.

Jailor's Locker and Store Room—

Three cases disinfectant, 3 brooms, 3 galvanized pails, 380 record books, 2 lanterns, 3 crowbars, 1 shovel, 1 case soap, 1 case Sapolio.

Third Floor, Including Matron's Quarters—

Two heating stoves, 1 range, 6 iron bedsteads, 6 bedsprings, 12 blankets, 4 cell mats, 4 pillows, 11 chairs, 30 mattresses, 4 sheets, 2 pillow slips, 10 cells with iron bunks complete, 2 dozen dishes, 1 bath room with bath tub, 2 washboards, 3 buckets, 1 table, 2 mops, 1 garbage can, 2 brooms, 1 duster, 4 stationary wash tubs.

Detectives' Rooms—

Three roll-top desks, 2 tables, 4 photo cabinets, 1 desk for typewriter, 16 chairs, 1 file case, 1 hat rack, 1 umbrella stand, 1 letter screw press, 1 clothes and property locker, 1 typewriter, 2 photo books (local rogues' gallery), 2 circular (foreign) books.

Police Stables—

Four horses for patrol wagon, 2 patrol wagons, 2 sets double harness, 4 blankets and surcingles, 25 feet one-inch hose, 400 feet one-inch fire rope, 2 harness hangers, 3 brooms, 2 pails, 1 fork, 1 shovel, 2 currycombs, 12 saddle horses, 12 horse blankets, 12 saddles, 11 saddle blankets, 11 pair spurs, 11 pair leggings, 1 wagon jack, 1 electric gong.

ANNUAL REPORT

—OF—

SEALER OF WEIGHTS AND MEASURES

For the Year Ending December 31, 1908.

To the Honorable Mayor and Members of the Council of the City of Portland, Oregon.

Gentlemen: I submit the following report for the office of the Sealer of Weights and Measures from May 1, 1908, to January 1, 1909:

The original ordinance creating this office was passed and approved in February, 1908. I assumed charge of the office May 1, 1908, and July 24, 1908, the original ordinance was amended and the present ordinance under which we are working was passed and approved.

The following statement will show the nature of the work undertaken and what has been accomplished:

Firms visited	926
Scales inspected	2120
Scales sealed	1892
Scales inaccurate and not sealed.....	228
Firms revisited	177
Scales reinspected	187
Scales found repaired and sealed.....	116
Scales found removed (as ordered).....	57
Scales found replaced by new.....	14
Scales on repair list January 1, 1909.....	41
Weights found inaccurate and condemned.....	24
Wood inspected (on complaint), cords.....	139
Coal inspected and weighed (on complaint), pounds.....	800
Complaints sworn to for short measuring.....	4
Convictions secured (Municipal Court).....	4

Under the heading "Scales Sealed" are a large number which were inaccurate at the time of testing, but owing to the minor nature of the repairs needed, we were able to adjust, correct and seal them at the time of our visit.

Our figures show that an average of about one scale in every nine examined was inaccurate at the time of testing. In the majority of cases the inaccuracy of the scales was due to carelessness rather than to intentional wrongdoing.

The wood inspections were made on specific complaints made by individuals who were of the opinion that they were being short-measured.

In addition to the wood and coal measured on complaint, we have stopped and inspected many wagons loaded with both wood and coal.

We have, during the last few months, paid particular attention to the wood and coal business and have taken several cases into the Municipal Court, securing convictions in all cases.

We have made an earnest effort to see that the ordinance in all its branches is being complied with, and so far we have met with good success.

Respectfully submitted,

F. G. BUCHTEL,
Sealer of Weights and Measures.

ANNUAL REPORT

—OF—

FIRE DEPARTMENT

COMMITTEE ON FIRE OF THE EXECUTIVE BOARD OF THE CITY OF PORTLAND, 1908

From January to October.

MAX FLEISCHNER RICHARD WILSON L. T. PEERY

From October to December.

JOHN MONTAG ISAAC SWETT P. E. SULLIVAN

OFFICERS

DAVID CAMPBELL.....Chief Engineer
M. LAUDENKLOS.....Assistant Chief Engineer
(Third District, north of East Ankeny street.)
JOHN E. YOUNG.....Battalion Chief
(Second District, north of Morrison street.)
B. F. DOWELL.....Battalion Chief
(First District, south of Morrison street.)
JAY W. STEVENS.....Battalion Chief
(Fourth District, south of East Ankeny street.)
CHAS. A. SAVARIAN.....Superintendent Fire Alarm Telegraph

ANNUAL REPORT OF CHIEF ENGINEER

Portland, Oregon, December 31, 1908.

To the Honorable the Mayor and Executive Board of the City of Portland.

Gentlemen: I respectfully submit to your honorable body a report in detail of the revenues and expenditures of the Fire Department for the year 1908, and also an estimate of the amount necessary for the expenses of the department for the ensuing year, together with such information and recommendations necessary for its efficiency.

REVENUE FOR 1908

Balance, 1907	\$ 84,140.96
Transferred from general fund.....	11,511.15
Transferred from fire boat fund.....	2.64
Received from taxes	336,564.25
Total	\$432,219.00

EXPENDITURES FOR 1908

Salaries	\$281,043.47
Lots and rents	18,170.00
Repairs houses, furniture and fixtures.....	9,663.59
Apparatus and repairs	9,367.50
Material used in shop for apparatus.....	783.33
Twelve horses—pasture hire, etc.	5,049.40
Shoeing horses	2,642.75
Veterinary surgeon	465.00
Feed	17,112.16
Harness repairs	836.94
Fuel	6,356.21
Lighting—lanterns on apparatus, etc.	393.60
Stores	2,761.28
Volunteer hose companies and incidentals.....	372.00
Insurance	742.50
Hydrant repairs	492.13
Cistern repairs	13.94
Office expenses	132.73
Printing and advertising	387.65
New material and labor on same for fire alarm telegraph...	9,348.10
Material for repairs on fire alarm telegraph.....	1,736.95

Total\$367,871.23

New material and property included in the above expenditures are lots 7 and 10, block 1, Subdivision Z.....	\$ 6,750.00
Lot 20, block 26, Albina Addition.....	4,500.00
Lot 16, block 3, King's Second Addition.....	4,250.00
Lot 14, block 1, East Irvington.....	1,100.00
Lot 13, block 1, East Irvington.....	1,000.00
Two combination hose wagons.....	3,600.00
Three soft suctions	225.00
One buggy	248.00
Twelve horses	3,775.00
New harness	443.00
Twenty-one new fire alarm boxes and new material fire alarm telegraph	8,387.35

Total\$ 34,278.35

Summary:

Salaries	\$281,043.47
Running expenses	52,549.41
New material	34,278.35
Total	\$367,871.23

ESTIMATE OF EXPENSES FOR THE YEAR 1909

Salaries—

1 Chief engineer, \$225 per month.....	\$ 2,700.00
1 Assistant Engineer, \$175 per month.....	2,100.00
3 Battalion chiefs, \$150 per month, each.....	5,400.00
1 Supt. fire alarm telegraph, \$150 per month..	1,800.00
1 Asst. Supt. fire alarm telegraph, \$125.....	1,500.00
1 Master mechanic, \$135 per month.....	1,620.00
1 Machinist, \$100 per month.....	1,200.00
1 Instrument maker, \$100 per month.....	1,200.00
2 Hydrantmen, \$100 each per month.....	2,400.00
3 Linemen, fire alarm telegraph, each \$100 per month	3,600.00
3 Switchboard operators, \$100 each.....	3,600.00
1 Supply driver, \$100 per month.....	1,200.00
1 Master of fire boat, \$125 per month.....	1,500.00
1 Pilot of fire boat, \$115 per month.....	1,380.00
1 Engineer, fire boat, \$125 per month.....	1,500.00
2 Engineers, fireboat, \$115 each per month....	2,760.00
29 Captains of companies, each \$115 per month	40,020.00
25 Lieutenants of companies, each \$110 per month	33,000.00
16 Engineers, each \$110 per month.....	21,120.00
18 Stokers, each \$100 per month.....	21,600.00
44 Drivers, each \$100 per month.....	52,800.00
56 Hosemen, each \$100 per month.....	67,200.00
27 Laddermen, each \$100 per month.....	32,400.00
5 Pipemen, each \$100 per month.....	6,000.00
1 Stenographer, \$100 per month.....	1,200.00—\$310,800.00

245 Men.

Running Expenses.

Rents	\$ 540.00
House repairs, fixtures and furniture.....	12,000.00
Repairs to apparatus	12,000.00

Repairs to harness	800.00
Scavenger service	1,500.00
Horseshoeing	2,500.00
Horse hire and pasturing	100.00
Veterinary surgeon	600.00
Feed	16,000.00
Fuel	9,000.00
Lighting (lanterns on apparatus).....	480.00
Incidentals (increase allowance volunteer hose companies)	1,000.00
Hydrant repairs	1,000.00
Cistern repairs	300.00
Printing, advertising and offices expenses.....	700.00
Small stores or supplies.....	3,000.00
Fire alarm telegraph, material and labor for repairs	5,000.00—\$ 66,520.00
Total salaries and running expenses.....	\$377,320.00

New Equipment and Material.

Fire station, Fifteenth and Montgomery streets—

House, brick	\$12,000.00
One second size engine	6,350.00
Hose	2,150.00
Heater and connections	500.00
Fixtures and Furniture	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 24,030.00

Fire station vicinity St. Vincent's Hospital—

Brick house	\$12,000.00
One second size engine	6,350.00
Hose	2,150.00
Heater and connections	500.00
Fixtures and Furniture	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 24,030.00

Fire station Third and Glisan streets—

House, brick	\$20,000.00
Hose	2,250.00

Heater and connections	500.00
Fixtures and Furniture	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 25,780.00

Fire station vicinity 22d and Thompson streets—

Brick house	\$12,000.00
One second size engine	6,350.00
One combination chemical and hose wagon....	1,950.00
Hose	2,150.00
Heater and connections	500.00
Fixtures and furniture	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 25,980.00

Fire station vicinity Mt. Tabor—

Lot and brick house	\$13,000.00
One third size engine	6,150.00
One combination chemical and hose wagon....	1,950.00
Hose	2,150.00
Heater and connections	500.00
Fixtures and furniture	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 26,780.00

Fire station North Albina—

Lot and brick house	\$13,000.00
One third size engine	6,150.00
One combination chemical and hose wagon....	1,950.00
Hose	2,150.00
Heater and connections	500.00
Fixtures and furniture	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 26,780.00

Fire station Willamette Heights—

Lot and brick house	\$13,200.00
One third size engine	6,150.00
One combination chemical and hose wagon....	1,950.00

Hose	2,150.00
Heater and connections	500.00
Fixtures and furniture.....	700.00
Five sets harness	180.00
Babcock ceiling springs and door springs.....	400.00
Five horses	1,750.00—\$ 26,980.00

Fire station at Fulton—

One third size engine	\$ 6,150.00
One horse	350.00—\$ 6,500.00

Fire station at Sellwood—

One third size engine	\$ 6,150.00
Three horses	1,050.00
Three sets harness	108.00
Heater and connections	500.00—\$ 7,808.00

Fire station at Sunnyside—

One second size fire engine.....	6,350.00
One water tower	8,100.00
Three horses for same	1,050.00
Three sets harness	108.00—\$ 9,258.00

Hose—

4,000 feet 2½-inch	\$ 4,000.00
2,000 feet 2½-inch	2,200.00
1,500 feet 1½-inch	1,400.00—\$ 7,600.00

For Truck No. 1—

One quick-raising device	1,800.00
Ten horses	3,500.00

In reserve—

Two second size engines	\$12,700.00
Two hose wagons	2,400.00—\$ 15,100.00
House for fire alarm telegraph service on lot of of Truck Company No. 3.....	2,000.00
Brick house for Engine No. 8 and Truck 5..	14,000.00

New material for fire alarm telegraph—

Fifteen fire alarm boxes	\$ 1,875.00
Wire, etc., for installing boxes.....	225.00

Twenty iron posts, pipe and setting.....	360.00
Telephone equipment for fire alarm boxes.....	240.00
One wagon and harness	400.00
Switch board, punch register, relays, etc., for house at Fifteenth and Montgomery.....	390.00
Switchboard, punch register, relays, etc., and line material for house near St. Vincent's Hospital	462.00
Switch board, punch register, relays, etc., for house at Third and Glisan.....	390.00
Switchboard, punch register, relays, etc., for house near Twenty-second and Thompson..	562.50
Switchboard, punch register, relays, etc., and line material for house on Willamette Hts..	608.00
Switchboard, punch register, relays, etc., and line material for house at Mt. Tabor.....	562.50
Switchboard, punch register, relays, etc., and line material for house at North Albina....	562.50
Lead-encased cable connecting houses with pole lines	296.00
Two motor generators for charging fire alarm storage battery	540.00
Extra labor on excavating for underground pipes for cable	240.00—\$ 7,713.50
Total new equipment and material.....	\$261,989.50
Salaries and running expenses	377,320.00
Total estimate for 1909.....	\$639,309.50

EXPENDITURES, ALL COMPANIES AND SUPPLY DEPARTMENT, FOR YEAR ENDING DECEMBER 31, 1908

	Salaries.	House and Lot.		Ap'rats.
		Costs and Rents.	Repairs, Fix'trs, Furn'tre.	Cost.
Fire boat Geo. H. Williams..	\$ 23,279.15		\$ 53.05	
Engine Company No. 1.....	11,900.75		330.21	
Engine Company No. 3.....	12,037.85		173.74	
Engine Company No. 4.....	9,650.20		169.61	
Engine Company No. 5.....	9,691.85		48.82	
Engine Company No. 6.....	9,562.45	\$ 180.00	41.50	
Engine Company No. 7.....	9,271.55		689.48	
Engine Company No. 8.....	9,557.45	195.00	120.95	
Engine Company No. 9.....	9,521.55			
Engine Company No. 10.....	9,596.31		1.65	
Engine Company No. 11.....	9,621.90		93.89	
Engine Company No. 12.....	9,801.45		71.99	
Engine Company No. 13.....	9,250.65		258.69	
Engine Company No. 14.....	9,097.60		750.38	
Engine Company No. 15.....	6,634.75		3,280.81	
Truck Company No. 1.....	11,825.60		414.99	
Truck Company No. 2.....	9,428.35		32.21	
Truck Company No. 3.....	9,468.10		41.48	
Truck Company No. 4.....	9,384.45		331.58	\$ 115.00
Truck Company No. 5.....	9,519.90	195.00	63.44	
Hose Company No. 1.....	7,425.00		6.55	
Hose Company No. 2.....	7,069.60		303.03	
Hose Company No. 3.....	6,936.30		1,118.38	
Hose Company No. 4.....	7,036.63		162.64	
Hose Company No. 6.....	7,228.55		650.10	
Chem. Engine No. 1.....	3,617.10		6.55	
Chem. Engine No. 2.....	3,687.40		141.01	
Chem. Engine No. 4.....	3,678.73		249.07	
Office and supply		17,600.00	57.79	3,600.00
Total expenditures	\$254,781.17	\$18,170.00	\$9,663.59	\$3,715.00

EXPENDITURES, ALL COMPANIES AND SUPPLY DEPARTMENT, FOR YEAR ENDING DECEMBER 31, 1908

	Apparatus.	Repairs.	Shop.	Horses.	
				Cost, Hire, etc.	Shoeing.
Fire boat Geo. H. Williams..	\$1,025.73			\$ 42.53	\$ 48.00
Engine Company No. 1.....	426.97			43.12	130.50
Engine Company No. 3.....	141.40			42.53	119.75
Engine Company No. 4.....	172.70			42.53	118.00
Engine Company No. 5.....	25.32			42.53	122.50
Engine Company No. 6.....	135.92			42.53	119.00
Engine Company No. 7.....	17.65			42.53	117.00
Engine Company No. 8.....	59.80			42.53	98.50
Engine Company No. 9.....	31.75			42.53	96.00
Engine Company No. 10.....	62.05			42.53	101.00
Engine Company No. 11.....	4.00			42.53	98.50
Engine Company No. 12.....	3.50			42.53	101.50
Engine Company No. 13.....	202.21			42.53	121.00
Engine Company No. 14.....	14.50			42.53	91.00
Engine Company No. 15.....	289.15			32.15	101.00
Truck Company No. 1.....	270.30			42.53	83.75
Truck Company No. 2.....	283.30			42.53	72.00
Truck Company No. 3.....	147.45			42.53	91.75
Truck Company No. 4.....	552.72			42.53	76.50
Truck Company No. 5.....	16.00			42.53	48.00
Hose Company No. 1.....	28.00			42.53	49.50
Hose Company No. 2.....	15.95			42.53	51.50
Hose Company No. 3.....	24.25			42.53	50.50
Hose Company No. 4.....	.75			42.53	56.50
Hose Company No. 6.....	21.25			42.53	49.75
Chem. Engine No. 1.....	134.75			42.53	51.50
Chem. Engine No. 2.....	379.00			42.53	48.00
Chem. Engine No. 4.....	90.70			42.53	43.50
Office and supply.....	1,075.43	\$783.33		3,868.35	286.75
Total expenditures	\$5,652.50	\$783.33		\$5,049.40	\$2,642.75

EXPENDITURES, ALL COMPANIES AND SUPPLY DEPARTMENT, FOR YEAR ENDING DECEMBER 31, 1908

	Horses.		Harness and Repairs.	Fuel.
	Vet. Surgeon.	Feed.		
Fire boat Geo. H. Williams..	\$ 16.06	\$ 335.01	\$ 2.00	\$3,642.71
Engine Company No. 1.....	16.06	847.47	15.15	256.25
Engine Company No. 3.....	16.06	826.72	17.25	164.00
Engine Company No. 4.....	16.06	772.35	13.03	137.25
Engine Company No. 5.....	16.06	641.63	15.20	170.25
Engine Company No. 6.....	16.06	737.89	29.85	123.25
Engine Company No. 7.....	16.06	800.13	25.52	118.00
Engine Company No. 8.....	16.06	608.64	14.45	147.75
Engine Company No. 9.....	16.06	599.40	1.25	122.25
Engine Company No. 10.....	16.06	712.40	2.95	136.25
Engine Company No. 11.....	16.06	725.11	1.00	108.00
Engine Company No. 12.....	16.06	653.08	7.14	112.50
Engine Company No. 13.....	16.06	866.06	43.90	113.50
Engine Company No. 14.....	16.06	658.37	21.35	84.25
Engine Company No. 15.....	12.33	689.42	369.85	131.00
Truck Company No. 1.....	16.06	466.55	2.90	.....
Truck Company No. 2.....	16.06	634.92	10.65	31.75
Truck Company No. 3.....	16.06	681.14	6.20	35.75
Truck Company No. 4.....	16.06	526.40	17.45	21.50
Truck Company No. 5.....	16.06	332.92	1.50	.....
Hose Company No. 1.....	16.06	393.72	1.35	25.25
Hose Company No. 2.....	16.06	443.04	9.60	27.75
Hose Company No. 3.....	16.06	352.31	1.50	31.50
Hose Company No. 4.....	16.06	488.41	.....	4.75
Hose Company No. 6.....	16.06	569.88	4.60	32.50
Chem. Engine No. 1.....	16.06	336.07	8.00	31.50
Chem. Engine No. 2.....	16.06	321.23	22.35	13.25
Chem. Engine No. 4.....	16.06	317.75	7.20	29.75
Office and supply.....	19.05	774.14	163.75	503.75
Total expenditures	\$465.00	\$17,112.16	\$836.94	\$6,356.21

EXPENDITURES, ALL COMPANIES AND SUPPLY DEPARTMENT, FOR YEAR ENDING DECEMBER 31, 1908

	Light- ing.	Stores.	Insur- ance.	Totals.
Fire boat Geo. H. Williams..	\$ 34.50	\$ 191.36	\$742.50	\$ 29,412.60
Engine Company No. 1.....	29.30	3.50	.....	13,999.28
Engine Company No. 3.....	29.30	5.91	.....	13,574.51
Engine Company No. 4.....	17.90	.....	.....	11,109.63
Engine Company No. 5.....	17.90	3.85	.....	10,795.91
Engine Company No. 6.....	12.35	7.50	.....	11,008.30
Engine Company No. 7.....	17.90	1.66	.....	11,117.48
Engine Company No. 8.....	11.40	4.25	.....	10,876.78
Engine Company No. 9.....	11.40	18.34	.....	10,460.53
Engine Company No. 10.....	11.40	.....	.....	10,682.60
Engine Company No. 11.....	11.40	4.75	.....	10,727.14
Engine Company No. 12.....	10.45	10.00	.....	10,830.20
Engine Company No. 13.....	12.35	10.96	.....	10,937.91
Engine Company No. 14.....	10.45	10.98	.....	10,797.47
Engine Company No. 15.....	7.60	22.11	.....	11,570.17
Truck Company No. 1.....	10.45	9.60	.....	13,142.73
Truck Company No. 2.....	16.95	16.00	.....	10,584.72
Truck Company No. 3.....	17.90	36.01	.....	10,584.37
Truck Company No. 4.....	11.40	1.67	.....	11,097.26
Truck Company No. 5.....	11.40	1.00	.....	10,247.75
Hose Company No. 1.....	11.40	4.50	.....	8,003.86
Hose Company No. 2.....	14.10	3.00	.....	7,996.16
Hose Company No. 3.....	12.40	9.25	.....	8,594.98
Hose Company No. 4.....	6.20	1.00	.....	7,815.47
Hose Company No. 6.....	16.95	.....	.....	8,632.17
Chem. Engine No. 1.....	6.50	64.86	.....	4,315.42
Chem. Engine No. 2.....	5.70	50.68	.....	4,727.21
Chem. Engine No. 4.....	6.65	26.01	.....	4,507.95
Office and supply .....	.....	2,242.53	.....	30,974.87
Total expenditures	\$393.60	\$2,761.28	\$742.50	\$329,125.43

GENERAL EXPENDITURES FOR 1908

Officers and staff salaries	\$ 26,262.30
Hydrant repairs	492.13
Cistern repairs	13.94
Office expenses and printing.....	520.38
Incidentals, including volunteer hose companies allowances	372.00
	<u>\$ 27,660.75</u>

Fire Alarm Telegraph—

Wages for line work and labor.....	\$ 960.75
General repairs	1,736.95
New boxes, material and installation.....	8,387.35
	<u>\$ 11,085.05</u>

Total general expenditures\$ 38,745.80

Summary of Expenditures—

Company and supply department expenses.....	\$329,125.43
General expenses	38,745.80
	<u>\$367,871.23</u>

LIST OF PROPERTY IN TRUST

Houses and Lots (Values Estimated)—

Fire boat, house and dock and machine shops.....	\$ 10,000.00
Engine Co. No. 1 and Hook and Ladder Co. No. 1, lot, house and bell tower	65,000.00
Engine Co. No. 3, house and lot.....	25,000.00
Engine Co. No. 4 and Hook and Ladder Co. No. 2, house and lot	6,500.00
Engine Co. No. 5, house and lot.....	4,000.00
Engine Co. No. 6, house.....	2,000.00
Engine Co. No. 7 and Hook and Ladder Co. No. 4, house and lot	15,000.00
Engine Co. No. 8 and Hook and Ladder Co. No. 5, house..	3,000.00
Engine Co. No. 9, house and lot.....	4,000.00
Engine Co. No. 10, house and lot.....	4,000.00
Engine Co. No. 11, house and two lots.....	6,000.00
Engine Co. No. 12, house and lot.....	5,000.00
Engine Co. No. 13, house and lot.....	9,950.00
Engine Co. No. 14, house and lot.....	6,000.00

Engine Co. No. 15, house and lot.....	10,197.00
Hook and Ladder Co. No. 3, house and lot.....	15,000.00
Hose Co. No. 1 and Chemical Eng. Co. No. 1, house and lot	15,000.00
Hose Co. No. 2 and Chemical Eng. Co. No. 2, house and lot	15,000.00
Hose Co. No. 3, house and lot.....	2,500.00
Hose Co. No. 4, house and two lots.....	3,000.00
Hose Co. No. 6, house, lot and corporation shed.....	6,500.00
Chemical Engine Co. No. 4, house and lot.....	2,000.00
Supply department, house and lot	2,250.00
Lot on Borthwick street	1,000.00
House and lot, Vancouver avenue.....	1,000.00
50x95 feet northeast corner Third and Glisan streets.....	45,000.00
Lots 7 and 10, block 1, subd. Z, southeast corner Fifteenth and Montgomery streets	6,750.00
Lot 20, block 26, Albina Avenue Addition, north side Wil- liams avenue and Union avenue.....	4,500.00
Lot 16, block 3, King's Second Addition, east side Twenty- fourth street, between Kearney and Lovejoy streets..	4,250.00
Lots 14 and 15, block 1, East Irvington, east side East Twenty-fourth street, between Thompson and Tilla- mook streets	2,100.00
Total	<u>\$301,497.00</u>

Apparatus—

One fire boat, seventeen engines, sixteen hose wagons, five combination chemical engines and hose wagons, two four-wheel hose carriages, one four-wheel hand (hose) carriage, four two-wheel hose carts, one two-wheel hose reel, one first-class hook and ladder truck, one second- class hook and ladder truck, three third-class hook and ladder trucks, one village hand truck, one combination chemical engine and truck, four chemical engines.....	\$185,000.00
Harness	5,500.00
Property in City Hall office.....	600.00
Property in engine houses.....	10,000.00
114 horses	23,750.00
Hose	30,000.00
Machinery and tools (machine shop).....	1,500.00
Fire alarm apparatus	70,000.00
Hydrants	

Total	<u>\$326,350.00</u>
Total value houses and lots (estimated).....	301,497.00
Total value of property in trust.....	<u>\$627,847.00</u>

LOCATION OF HOUSES

Fire boat "George H. Williams," foot of East Washington street.
Engine Company No. 1, east side of Fourth, between Morrison and Yamhill streets. No. 170 Fourth street.

Engine Company No. 3, south side of Washington, opposite North Sixteenth street. No. 510 Washington.

Engine Company No. 4, east side of Fourth, between Montgomery and Mill streets. No. 370 Fourth street.

Engine Company No. 5, west side of Front, between Whitaker and Gibbs streets. No. 811 Front street.

Engine Company No. 6, Nicolai, between Twenty-first and Twenty-second streets.

Engine Company No. 7, southeast corner East Third and East Pine streets. No. 40 East Third street.

Engine Company No. 8, north side of Russell, between Williams avenue and Rodney avenue. No. 287 Russell street.

Engine Company No. 9, corner Thirty-fifth and Belmont streets, Sunnyside. No. 1036 Belmont street.

Engine Company No. 10, Macadam street, Fulton.

Engine Company No. 11, northeast corner Twelfth and Powell streets.

Engine Company No. 12, northwest corner E. Twenty-eighth and Davis streets.

Engine Company No. 13, northwest corner Grand avenue and Multnomah street. No. 361 Grand avenue, North.

Engine Company No. 14, 1029 Union avenue, North.

Engine Company No. 15, 584 Spring street, Portland Heights.

Chemical Engine No. 1, west side of Second, between Oak and Pine streets. No. 69 Second street.

Chemical Engine No. 2, west side of First, between Madison and Jefferson streets. No. 273 First street.

Chemical Engine No. 4, 859 Mississippi avenue.

Hook and Ladder Company No. 1, east side of Fourth, between Morrison and Yamhill streets. No. 168 Fourth street.

Hook and Ladder Company No. 2, east side of Fourth, between Montgomery and Mill streets. No. 368 Fourth street.

Hook and Ladder Company No. 3, north side of Glisan, between North Fourteenth and North Fifteenth streets. No. 511 Glisan street.

Hook and Ladder Company No. 4, No. 40 East Third street.

Hook and Ladder Company No. 5, No. 287 Russell street.

Hose Company No. 1, west side Second, between Oak and Pine streets. No. 69 Second street.

Hose Company No. 2, west side of First, between Madison and Jefferson streets. No. 273 First street.

Hose Company No. 3, west side of East Seventh, between Stephens and East Harrison streets. No. 367 East Seventh street.

Hose Company No. 4, No. 1660 Thirteenth street, Sellwood.

Hose Company No. 6, west side of Twentieth, between Quimby and Raleigh streets. No. 329 Twentieth street, North.

Supply building, west side of Union avenue, between Holladay avenue and Hassalo street. No. 227 Union avenue.

Bell tower, in rear of Engine Company No. 1.

EXHIBIT OF LOSSES BY FIRE DURING THE YEAR 1908,
VALUE OF PROPERTY, INSURANCE INVOLVED,
INSURANCE PAID, ETC.

Months.	Value Involved in Fires.		Loss.	
	Building.	Contents.	Building.	Contents.
January	\$ 259,935.00	\$ 61,350.00	\$ 1,344.97	\$ 675.00
February	171,675.00	114,912.00	15,254.05	31,348.24
March	197,200.00	194,500.00	9,452.65	65,148.62
April	184,760.00	80,165.00	4,698.32	8,510.15
May	255,475.00	81,821.00	17,640.19	25,249.48
June	179,195.00	129,575.00	11,786.50	12,749.25
July	1,150,815.00	1,164,877.99	169,420.65	238,264.02
August	83,840.00	92,575.20	9,543.58	12,977.51
September	272,750.00	355,196.00	24,590.70	64,845.82
October	406,900.00	319,250.00	4,477.33	18,456.30
November	100,815.00	38,700.00	7,183.45	14,061.55
December	271,535.00	148,615.00	10,681.78	17,395.80
Totals	\$3,534,895.00	\$2,781,537.19	\$ 286,074.17	\$ 509,681.74

Months.	Loss in Which Fire Did Originate.		Loss in Which Fire Did Not Originate.	
	Building.	Contents.	Building.	Contents.
January	\$ 1,344.97	\$ 675.00	.....	.....
February	13,188.30	30,311.24	\$ 2,065.75	\$ 1,037.00
March	9,300.65	64,992.47	152.00	156.15
April	4,698.32	8,510.15	.....	.....
May	10,684.59	23,751.48	6,955.60	1,498.00
June	4,397.00	9,461.05	7,389.50	3,288.20
July	93,842.38	138,705.11	75,578.27	99,558.91
August	7,641.01	8,643.56	1,902.57	4,333.95
September	23,848.15	63,208.32	742.55	1,637.50
October	4,477.33	18,456.30	.....	.....
November	6,976.00	13,061.55	207.45	1,000.00
December	9,259.58	12,981.11	1,422.20	4,414.69
Totals	\$ 189,658.28	\$ 392,757.34	\$ 96,415.89	\$ 116,924.40

EXHIBIT OF LOSSES BY FIRE DURING THE YEAR 1908,
VALUE OF PROPERTY, INSURANCE INVOLVED,
INSURANCE PAID, ETC.

Months.	Insured For.		Insurance Paid.	
	Building.	Contents.	Building.	Contents.
January	\$ 99,350.00	\$ 27,000.00	\$ 989.97	\$ 475.00
February	92,350.00	80,050.00	14,240.25	29,166.24
March	80,310.00	104,150.00	1,952.65	64,634.06
April	52,750.00	40,650.00	3,017.82	7,840.15
May	98,025.00	50,350.00	13,099.59	22,564.48
June	66,600.00	92,410.00	9,808.50	9,607.55
July	604,935.00	623,168.01	118,574.65	129,944.79
August	48,955.00	37,485.20	7,747.93	9,267.51
September	115,050.00	163,190.00	24,455.30	51,164.82
October	86,100.00	85,600.00	3,427.35	18,196.30
November	50,820.00	18,150.00	8,339.45	5,906.55
December	147,720.00	95,310.00	9,846.78	17,110.80
Totals	\$1,542,965.00	\$1,417,513.21	\$ 215,500.24	\$ 365,878.25

Months.	Confined to bldg. in which started.	Confined to floor where started.	Extended to adjoining building.	Extended beyond adjoining building.	Extinguished by water.	Extinguished by chemical.
January	4	14	...	...	9	5
February	9	14	...	...	14	11
March	6	9	1	...	10	6
April	7	18	...	...	16	8
May	3	15	2	1	10	3
June	10	7	6	1	12	4
July	15	21	9	3	39	14
August	8	13	1	1	27	5
September	2	21	2	2	21	2
October	6	14	...	...	10	8
November	8	12	3	...	12	4
December	8	14	2	...	11	7
Totals	86	172	26	8	191	77

Total loss	\$ 795,755.91
Insurance	2,960,478.21
Insurance paid	581,378.49
Loss over insurance paid	214,377.42
Value of property involved	6,316,432.19

CLASSIFICATION OF LOSSES

No. of false alarms	6	8	6	3	1	6	8	2	6	7	69	Total
No. of fires, no loss and other than building	51	35	44	47	21	21	48	37	29	1	57	December.
No. of fires, loss under \$100	16	8	10	13	8	8	14	10	9	2	6	November.
No. of fires, loss between \$100 and \$200	6	1	...	...	3	3	...	1	1	...	6	October.
No. of fires, loss between \$200 and \$300	...	2	...	...	...	...	...	1	2	...	1	September.
No. of fires, loss between \$300 and \$400	...	3	...	...	...	...	...	1	1	...	1	August.
No. of fires, loss between \$400 and \$500	...	...	...	...	...	...	...	...	...	...	...	July.
No. of fires, loss between \$500 and \$750	...	3	...	...	...	...	...	...	...	...	...	June.
No. of fires, loss between \$750 and \$1,000	...	...	...	...	...	...	...	...	...	...	...	May.
No. of fires, loss between \$1,000 and \$2,000	...	...	...	...	...	...	...	...	...	...	...	April.
No. of fires, loss between \$2,000 and \$5,000	...	2	...	...	...	...	...	...	...	...	...	March.
No. of fires, loss between \$5,000 and \$10,000	...	1	...	...	...	...	...	...	...	...	...	February.
No. of fires, loss over \$10,000	...	2	...	...	...	...	...	...	...	...	...	January.
Totals	80	67	69	73	40	94	79	64	48	51	85	798

TABLE OF FIRES AND ALARMS FOR YEAR ENDING DECEMBER 31, 1907

Month.	From all sources.	Boxes.	Telephones.	Stills	Actual fires.	False alarms.
January	121	39	63	19	31	16
February	48	11	28	9	14	6
March	57	20	24	13	19	6
April	70	29	35	6	21	7
May	43	16	22	5	16	3
June	68	33	28	7	27	11
July	77	29	34	14	24	7
August	59	15	34	10	17	5
September	50	21	21	8	19	9
October	49	20	23	6	11	10
November	58	17	30	11	12	1
December	79	27	40	12	16	9
Totals	779	277	382	120	227	90

TABLE OF FIRES AND ALARMS FOR YEAR ENDING DECEMBER 31, 1908

Month.	From all sources.	Boxes.	Telephones.	Stills.	Actual fires.	False alarms.
January	80	23	50	7	23	6
February	67	17	41	9	24	8
March	69	20	37	12	19	6
April	73	20	41	12	23	3
May	40	18	18	4	18	1
June	48	12	24	12	17	6
July	94	44	43	7	46	8
August	79	13	52	14	23	8
September	64	25	31	8	19	8
October	48	14	26	8	17	2
November	51	16	32	3	17	6
December	85	29	48	8	21	7
Totals	798	251	443	104	267	69

CAUSES OF FIRES AND ALARMS

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Accidents	...	...	2	...	...	...	...	...	...	...	...	1	3
Boiler explosion	...	...	1	...	...	...	...	...	...	...	...	...	1
Boiling fluid	...	...	1	...	...	...	...	...	...	...	...	...	1
Boiling grease	...	...	...	...	...	...	...	1	...	...	...	...	1
Boiling paint	...	...	...	...	...	...	1	...	...	...	...	...	1
Boiling tar	...	...	1	...	...	...	1	...	...	...	...	...	3
Bonfires	...	...	...	3	1	3	5	...	1	1	1	...	16
Burning brush	41	26	...	...	...	1	1	6	1	...	...	1	9
Burning flues	...	...	28	22	10	6	3	5	5	13	14	39	212
Burning grass	...	...	...	...	...	...	1	4	1	...	...	...	6
Burning grease	...	...	...	...	...	...	...	1	...	...	...	...	1
Burning paint	...	...	...	...	...	...	...	...	...	...	1	...	1
Bursting tube	...	...	...	...	...	...	...	1	...	...	...	...	1
Blow pot explosion	...	...	...	...	...	...	...	...	...	...	...	...	1
Broken acid carboy	...	...	...	...	...	...	...	...	...	...	...	...	1
Broken gas main	...	...	...	1	...	...	1	1	...	...	...	...	2
Broken wires	1	...	1	...	4	2	1	2	2	2	1	1	17
Carelessness	1	...	...	...	...	...	...	...	...	...	...	...	1
Christmas tree	...	1	...	1	...	...	4	...	...	...	...	...	1
Children with matches	...	1	...	...	...	...	...	...	...	...	...	...	2
Cigarettes	...	...	...	...	...	...	...	2	...	...	...	...	6
Cigars	...	1	...	...	...	...	6	...	1	...	...	2	10
Crossed wires in auto	...	...	...	...	...	1	...	...	1	...	...	...	1
Crossed wires	...	...	2	...	...	...	...	...	...	1	1	...	5

CAUSES OF FIRES AND ALARMS—Continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Defective electric motor	1	...	...	1	...	...	...	...	...	1	...	1	1
Defective furnace	3	7	2	3	2	4	5	2	1	4	6	4	43
Defective flue	...	...	...	...	...	...	...	...	...	...	1	1	2
Defective fireplace	...	...	...	...	...	...	...	...	...	...	1	...	1
Defective gas pipe	...	...	...	...	1	...	...	...	...	...	...	...	1
Defective gas range	2	...	...	...	...	...	...	...	...	...	...	...	2
Defective hearth	...	...	...	...	...	...	...	...	...	...	...	...	1
Defective range	...	...	...	...	...	...	...	...	...	...	...	...	1
Defective stack	...	...	...	2	...	...	...	...	1	1	...	...	1
Defective stove pipe	...	1	...	...	...	1	...	...	...	1	1	...	4
Defective wiring	...	...	...	...	...	...	...	...	...	...	...	...	1
Explosion comber's chamber	...	3	2	2	2	...	...	...	...	...	...	...	11
Electric wires	1	8	6	3	1	6	8	8	...	...	...	...	13
Escaping steam	6	...	...	...	...	...	...	...	...	2	6	7	69
False alarms	...	...	...	...	...	...	3	...	...	...	...	...	1
Fireworks	...	...	...	...	...	...	1	...	...	...	...	...	3
Friction of pulley	...	...	...	...	...	...	...	...	...	1	...	...	2
Friction on belt	...	...	...	1	...	...	...	...	...	...	...	...	1
Fumigating	...	...	2	...	...	...	...	...	...	...	1	...	3
Fuel Oil explosion	...	...	1	1	...	1	...	...	...	...	...	...	1
Gas explosion	...	...	...	...	...	...	...	...	...	2	...	...	4
Gas stove explosion	...	1	1	1	1	1	...	...	1	...	...	...	1
Gas stove	...	...	...	...	...	...	...	...	...	...	...	...	1
Gas range	...	...	1	...	...	...	...	...	2	...	...	...	8

CAUSES OF FIRES AND ALARMS—Continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Gas jet	1					1		1					1
Gasoline	1	1	1	1		1	1	1	1	1		1	8
Gasoline explosion				1	1		1	2	1	2	1	1	10
Hot ashes								3					3
Hot box								1					1
Hot rivet								1			1		2
Heat from kiln								1					1
Incendiary								1					1
Incubator									4	1			6
Lamp explosion				1			1		1				3
Leaking steam pipe													1
Lighted candle	1												1
Lighted pipe	1	3	3	2	2	3	4	1	6	1		2	28
Matches										1			1
Overheated conveyor													1
Overheated fireplace		1							1				2
Overhead film													1
Overheated furnace							1					2	3
Overheated gas stove				1					1				2
Overheated pipe			1										1
Overheated roaster	1												1
Overheated steam pipe												1	1
Overheated stove pipe												2	2
Overheated stove	2	1	1	3	2		1					1	11

CAUSES OF FIRES AND ALARMS—Continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Overheated stack	1					1		1					3
Oil explosion							1						1
Oil rags				1				1					2
Oil can					1								1
Open flue	1	1	1				2	1	1	1	1		9
Overturned lamp	1												2
Pitch pot	1												1
Plumber's torch	1						1	1					3
Rubbish													1
Rats and matches						1							1
Smoking flue				1				1	1	1			4
Smoking stove		1					2	1			1		5
Smoking furnace			1	3				11	8			2	30
Smoldering fire	4	1	1		1	1	3	2	1				14
Sparks	1												1
Sparks, boiler							1						1
Sparks, bonfire	2	1	1	4	2	4	5	4	3	1	2	1	29
Sparks, chimney											1		1
Sparks, furnace			1										1
Sparks, forge	1						1	1					3
Sparks, hot iron													1
Sparks, locomotive				2									2
Sparks, stack						1	1	1	1				5
Sparks, stove							1				1		2

CAUSES OF FIRES AND ALARMS—Continued

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sparks, wood saw	3	2	1	3	2	1	1	1	4	4	1	1	1
Spontaneous combustion	1	1	1	2	1	1	2	2	1	1	1	1	26
Supposed incendiary	1	1	1	1	1	1	1	1	1	1	1	1	9
Supposed burglars	1	1	1	1	1	1	1	1	1	1	1	1	1
Swinging gas jet	1	1	1	1	1	1	1	1	1	1	1	1	1
Tramps smoking	1	1	1	1	1	1	1	1	1	1	1	1	1
Unknown	1	1	1	1	1	1	1	1	1	1	1	1	1
Wood against furnace	1	1	1	1	1	1	1	1	1	1	1	1	1
Wood in oven	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	80	67	69	73	40	48	91	79	64	48	51	85	798

FIRE RECORD, 1883 TO 1908, INCLUSIVE

In 1883 total losses amounted to.....	\$319,092.20
In 1884 total losses amounted to.....	403,851.90
In 1885 total losses amounted to.....	59,329.73
In 1886 total losses amounted to.....	98,146.16
In 1887 total losses amounted to.....	84,173.72
In 1888 total losses amounted to.....	54,347.70
In 1889 total losses amounted to.....	37,730.23
In 1890 total losses amounted to.....	70,997.61
In 1891 total losses amounted to.....	251,759.86
In 1892 total losses amounted to.....	573,885.50
In 1893 total losses amounted to.....	155,459.39
In 1894 total losses amounted to.....	889,528.94
In 1895 total losses amounted to.....	139,611.20
In 1896 total losses amounted to.....	309,481.61
In 1897 total losses amounted to.....	70,722.51
In 1898 total losses amounted to.....	74,076.81
In 1899 total losses amounted to.....	171,684.86
In 1900 total losses amounted to.....	73,809.92
In 1901 total losses amounted to.....	254,704.19
In 1902 total losses amounted to.....	591,870.90
In 1903 total losses amounted to.....	912,753.73
In 1904 total losses amounted to.....	414,899.89
In 1905 total losses amounted to.....	860,420.14
In 1906 total losses amounted to.....	503,911.39
In 1907 total losses amounted to.....	424,183.44
In 1908 total losses amounted to.....	795,755.91

SUMMARY

Organization and Equipment—

The Fire Department as now constituted under the control of your honorable body consist of:

- One chief engineer.
- One assistant chief engineer.
- Three battalion chiefs.
- One superintendent of fire alarm telegraph.
- One acting master mechanic.
- One relief engineer.
- One machinist.
- Three linemen.
- One fire alarm repair man.
- One hydrantman.
- One assistant hydrantman.

One supply driver.
 Three switchboard operators.
 Fourteen steam fire engine companies, manned by 116 men.
 Three chemical engine companies, manned by 9 men.
 Five hose companies, manned by 30 men.
 Fire boat company and hose wagon, manned by 19 men.
 Five hook and ladder companies, manned by 42 men.
 Total, 235 men.
 One hundred and fourteen horses.
 Three reserve engines.
 One extra first-class Metropolitan, in first-class condition.
 One second-class Waterous, in fair condition.
 One fourth-class Silsby, in poor condition.
 One reserve hook and ladder truck, fourth-class, in good condition.
 One reserve hose wagon.
 Two combination chemical and hose wagons.
 One double 60-gallon Champion chemical engine.
 One village truck.
 One fuel wagon.
 One supply wagon.
 One cart for hydrantman.
 Six buggies for chiefs.
 One small wagon for fire alarm telegraph.
 Seven reserve horses, all crippled.
 We have in reserve 2,000 feet of 2½-inch cotton rubber-lined hose.

Auxiliary Volunteer Fire Companies—

Midway Hose Company—One hose reel and 500 feet of cotton hose, and 600 feet of rubber hose.

North Albina Volunteer Hose Company—One hose reel and 600 feet of rubber hose, and 1,000 feet of cotton hose.

Fire Hose in Service—

In the Fire Department we have 35,418 feet of 2½-inch cotton rubber lined, 8,572 feet of 2½-inch, 2,050 feet of 3½-inch, 4,500 feet of 1½-inch, 500 feet of ¾-inch; in volunteer companies, 2,000 feet of 2½-inch, making a grand total of 53,040 feet of hose in actual service.

During the year there were 30 fire alarm boxes installed and 21 new boxes purchased.

The number of buildings inspected by this department and the Fire Marshal's office was 3,168.

The theater inspection included eight theaters and twenty-one nickelodions. Theaters and nickelodions are inspected weekly. Among

the improvements obtained were 21 standard moving picture lamp houses, 221 aisle changes, 8 additional exits, 9 motors removed and 37 rubbish removals.

Work Accomplished by Fire Department in Connection with the Bureau of Inspection—

Number of buildings inspected.....	3,168
Number of buildings inspected in course of construction.....	130
Number of electrical inspections	2,311
Number of fuel oil plants installed.....	17
Wooden ash barrels removed.....	437
Wooden chutes removed	3
Metal ash barrels provided	210
Stovepipes removed	87
Defective stovepipes repaired	47
Collar for stovepipes	101
Terra cotta chimneys removed.....	52
Defective patent chimneys repaired.....	15
Defective brick chimneys repaired.....	69
Chimneys extended	45
Chimneys cleaned	143
Defective ranges repaired	2
Defective stoves repaired	14
Defective fireplaces repaired	3
Defective heaters repaired	11
Defective candy kettles repaired	4
Defective ovens repaired	4
Defective furnaces repaired	5
Defective boilers repaired	13
Defective stacks repaired	23
Defective forges repaired	6
Defective smokehouses repaired	8
Spark arresters obtained	11
Open flue holes protected	57
Sacks, paper, etc., removed from flue.....	1
Stoves protected	24
Open fires abolished	2
Dangerous lights abolished	9
Wood candle sticks removed.....	24
Gas jets protected	35
Gas heaters protected	43
Hose removed, gas stoves	1
Steampipes protected	24
Grease removed walls and vents	5

Range hoods and vents provided	8
Electrical changes	1,853
Premises rewired	18
Wiring overhauled	35
Transformers changed	4
Trolley system out	2
Moving picture rooms changed	12
Gasoline stoves abolished	13
Gasoline lamps abolished	8
Gasoline removed	20
Gasoline engine removed	1
Gasoline pumps and tanks installed	23
Oils removed	2
Oil houses provided	5
Lockers screened	5
Steam jet dry rooms	2
Fuel oil plants changed	21
Standard lamp rooms provided	21
Rubbish removed basements	554
Rubbish removed sidewalk gratings	20
Rubbish removed roofs	57
Rubbish removed yards	554
Rubbish removed all others	592
Moss removed from roofs	738
Metal rubbish barrels provided	133
Wood rubbish barrels removed	76
Rubbish bins provided	76
Oily waste removed	24
Waste cans provided	29
Drip pans provided	46
Wood cuspidors removed	7
Buildings whitewashed	3
Shingle roofs removed	22
Buildings secured	22
Cloth lining removed	4
Buildings condemned and removed	140
Structural changes (fire walls, cornices)	165
Frame buildings stopped in fire limits	8
Buildings, skylights netted (5 skylights)	1
Wire glass skylights obtained (30 skylights)	9
Wire glass sashes obtained (2,090 openings)	55
Communications bricked up	32
Fire doors or shutters added (323 openings)	83
Fire doors or shutters repaired	78

Elevators trapped or closed	43
Bulkheads obtained	8
Stairways closed	11
Exits cleared	94
Standpipes provided	20
Hose provided (6,735 feet)	23
Hose rearranged	7
Bast. pipe inlets provided (407 inlets)	104
Fire pails provided or filled (806 pails)	19
Barrels of water provided or filled (111 barrels)	11
Fire extinguishers put in or charged	265
Chemical engine obtained	2
Automatic sprinklers provided	7
Automatic sprinklers changed	26
Auxiliary fire alarm secured	2
Theater stage sprinklered	2
Watchmen obtained	6
Watch clocks obtained	10
New boilers supervised	39
New ranges supervised	12
New ovens supervised	2
New furnaces supervised	5
Brick boiler rooms obtained	41
Blower systems obtained	5
Miscellaneous	196
Total number of changes secured	8,079

It was expected that during the year we would have been able to install several new companies, adding much needed service, but owing to unforeseen circumstances little headway was made along those lines. Several locations have been settled upon, and lots purchased and my recommendations and estimates for the coming year cover the contemplated improvements.

In making the estimates for new fire stations the items of salaries and running expenses for the equipment of same were not considered, as no time could be specified as to when any of the companies would go into commission. The salary and running expenses of an engine company is approximately \$900 per month, and a water tower \$450 per month.

Many needed repairs and improvements have been made at the various fire stations, and whilst the expense was considerable, it was lessened by the work being done by our own men, so that at this time a number of the houses are in first-class condition. Those requiring further attention will be looked after as soon as funds are

available for their improvement. The apparatus of the department has been carefully attended to and kept in the best condition possible, although long and active service has rendered several engines almost useless.

The horses of the department average up well, but a few that have seen years of service should be replaced with young and first-class animals.

During the year about 180 hydrants have been placed, and provision having been made for 500 more; the installation of the same will be of untold benefit to all parts of the city.

The fire alarm system has been much improved by reconstruction and extensions, the installation of 29 alarm boxes and in changing the method of operation from slow time automatic to fast time manually transmitted, which is more fully set forth in the report of Superintendent Savarian.

We have endeavored to keep the expenses as low as possible without destroying the efficiency of the department or causing complaint. The record of the service will compare favorably with past years, and with a liberal appropriation we will stand second to no other department in the matter of fire protection.

RECOMMENDATIONS.

I would respectfully recommend that a lot be purchased for Engine Company No. 6, as that company occupies rented ground, and the longer this is delayed the more expensive and unsatisfactory it becomes.

I also recommend that some provision be made for the erection of a building to be used as a machine shop, as the present one is inadequate for the increased demands for repairs resulting from installation of new stations. In conjunction with said building a stable for reserve and sick horses could be attached, so that proper attention could be given these animals without interfering with the horses in active service.

A drill tower should be erected in some convenient locality, similar to those in use in many other cities, as in no other way can efficiency be so readily obtained as by constant practice on the tower.

I would also suggest the two deluge sets be purchased for handling large streams in cases of large conflagrations, where it is necessary to combine a number of ordinary or small streams.

I also recommend that a lot be purchased in the vicinity of Francis avenue and Greenwood avenue for future use, as values in said location are reasonable at this time, and no better site can be found.

I also recommend that Hose Company No. 6 be changed to an

engine company, as the various business interests crowding the locality of said fire station demand this change.

Respectfully submitted,

DAVID CAMPBELL, Chief Engineer.

CISTERNS—LOCATION, CAPACITY AND SIZE OF SUPPLY

Northern District.		Feed pipe,
	Gallons.	Inches.
First and Alder	20,000	3
First and Washington	20,000	4
First and Stark	23,000	4
First and Oak	20,000	4
First and Ash	20,000	4
First and Burnside	15,000	4
Second and Alder	20,000	6
Second and Stark	20,000	4
Second and Pine	25,000	6
Second and Couch	20,000	6
Second and Everett	20,000	6
Third and Washington	15,000	6
Fourth and Stark	20,000	3
Fourth and Burnside	11,000	4
Fifth and Washington	15,000	4
Fifth and Oak	15,000	3
Fifth and Everett	20,000	6
Fifth and Glisan	20,000	3
Sixth and Davis	20,000	4
Seventh and Washington	15,000	6
Seventh and Oak	15,000	6
Seventh and Burnside	16,000	6
Eighth and Everett	20,000	4
Ninth and Everett	17,000	4
Tenth and Couch	15,000	6
Tenth and Glisan	20,000	2 and 6
Twelfth and Washington	15,000	4
Twelfth and Johnson	20,000	6
Thirteenth and Burnside	20,000	6
Fourteenth and Glisan	20,000	4
Fourteenth and Marshall	20,000	3
Sixteenth and Davis	20,000	6
Twentieth and Glisan	20,000	4
Twenty-first and Washington	20,000	4

Eastern District.

	Gallons.	Feed pipe, Inches.
Union avenue and East Pine.....	20,000	4
Union avenue and Fremont.....	20,000	2
Grand avenue and East Washington.....	20,000	6
Grand avenue and East Clay.....	25,000	4
East Twelfth and East Ankeny.....	25,000	6
East Fourteenth and East Pine.....	25,000	6
Williams avenue and Cherry.....	20,000	1½
Williams avenue and Beech.....	20,000	4
Loring and Harding.....	20,000	4
Mississippi avenue and Goldsmith.....	20,000	6
Minnesota and Beech.....	20,000	4

Southern District.

	Gallons.	Feed pipe, Inches.
Front and Harrison.....	20,000	3
Front and Columbia.....	20,000	6
Front and Madison.....	20,000	4
First and Meade.....	20,000	3
First and Mill.....	15,000	4
First and Jefferson.....	15,000	3
First and Salmon.....	20,000	4
First and Taylor.....	20,000	4
First and Morrison.....	20,000	3
Second and Caruthers.....	20,000	3
Second and Hall.....	20,000	4
Third and Grant.....	20,000	3
Third and Montgomery.....	12,000	6
Third and Jefferson.....	15,000	6
Third and Taylor.....	20,000	4
Third and Morrison.....	20,000	4
Fourth and Clay.....	20,000	4
Fifth and Caruthers.....	20,000	3
Fifth and Taylor.....	15,000	3
Fifth and Morrison.....	15,000	4
Sixth and College.....	20,000	3
Sixth and Mill.....	20,000	3
Sixth and Main.....	18,000	3
Seventh and Harrison.....	15,000	6
Seventh and Jefferson.....	20,000	3
Seventh and Salmon.....	15,000	3

Southern District—Continued.

	Gallons.	Feed pipe, Inches.
Seventh and Morrison.....	8,000	6
Tenth and Hall.....	20,000	3
Tenth and Clay.....	20,000	3
Eleventh and Jefferson.....	20,000	3
Eleventh and Salmon.....	20,000	3
Eleventh and Morrison.....	20,000	two 4
Thirteenth and Madison.....	20,000	3
Fourteenth and Market.....	20,000	3
Lowndale and Morrison.....	15,000	4
Seventeenth and Yamhill.....	20,000	3
Total number of cisterns, 81.		

ANNUAL REPORT OF FIRE ALARM TELEGRAPH

Portland, Oregon, December 31, 1908.

Mr. David Campbell, Chief of Fire Department, Portland, Or.

Dear Sir: I submit the following as my annual report of the operation of and work done on the fire alarm telegraph:

During the past year a large amount of work has been done on reconstruction and extensions of the fire alarm telegraph system, and in changing the method of operation from slow time automatic to fast time manually transmitted alarms. As at present operated all signals from street fire alarm boxes are sent to the fire alarm office in the City Hall first, and then manually transmitted to the different engine houses throughout the city. The system has worked perfectly since being in operation, due in a great measure to the use of the recently installed underground cable, which was purchased last year and put in commission during the year. Connected to this underground cable were twenty-three fire alarm boxes set on iron pedestals in different parts of the West Side district. There were also twenty-nine new fire alarm boxes installed, four being in Sellwood, two near there, two on Portland Heights, one in Woodlawn, and the others were distributed principally in the outlying district of the East Side.

Also all the fire engine houses on the East Side and Portland Heights house were connected with the City Hall with new overhead circuits. Two new box circuits were completed on the East Side. This work necessitated the stringing of fifty-seven miles of new wire.

The twenty-one new fire alarm boxes recently purchased were received during the past month, and preparations are being made for installing the same. I would recommend the purchase of fifteen new

boxes this coming year, also that the overhead fire alarm wires be placed underground wherever the conduits of the telephone companies are available, as the liability to breakdowns is greatly decreased.

Respectfully submitted,

CHARLES A. SAVARIAN,

Supt. F. A. and P. Teleg.

FIRE ALARM BOXES

West Side—

- 7 Park and Jefferson streets.
- 8 Twelfth and Morrison streets.
- 9 Ninth and Everett streets.
- 12 First and Morrison streets.
- 13 Third and Washington streets.
- 14 Second and Pine streets.
- 15 First and Vine streets.
- 16 First and Flanders streets.
- 17 Sixth and Couch streets.
- 18 Front and Lovejoy streets.
- 19 Front and Stark streets.
- 21 Fifth and Morrison streets.
- 23 Park and Oak streets.
- 24 Fifteenth and Glisan streets.
- 25 Fourteenth and Northrup streets.
- 26 Seventeenth and Xavier streets.
- 27 Washington and Sixteenth streets.
- 28 Twelfth and Couch streets.
- 29 Twenty-second and Everett streets.
- 31 First and Meade streets.
- 32 Fourteenth and Jefferson streets.
- 34 Seventh and Jackson streets.
- 35 Seventeenth and Clay streets.
- 36 Twelfth and Hall streets.
- 37 Fourth and Grant streets.
- 38 Front and Market streets.
- 39 Water and Harrison streets.
- 41 Twentieth and Johnson streets.
- 42 Twenty-second and Xavier streets.
- 43 Front and Fourteenth streets.
- 45 Seventh and Glisan streets.
- 46 Twentieth and Washington streets.
- 47 Eighteenth and Flanders streets.
- 48 Thirteenth and Johnson streets.

FIRE ALARM BOXES—Continued

West Side—

- 49 Twenty-second and Lovejoy streets.
- 51 Second and Taylor streets.
- 52 Third and Madison streets.
- 53 Park and Yamhill streets.
- 54 Fourth and Ash streets.
- 56 Eleventh and Main streets.
- 57 Seventeenth and Taylor streets.
- 58 West Main and Stout streets.
- 59 Seventh and Montgomery streets.
- 61 Front and Couch streets.
- 62 Fourth and Hoyt streets.
- 63 Tenth and Washington streets.
- 64 Nineteenth and Pettygrove streets.
- 65 Hose Co. No. 6, Twentieth, bet. Quimby and Raleigh streets.
- 67 Twenty-fourth and Johnson streets.
- 68 Twenty-sixth and Thurman streets.
- 69 Nineteenth and Wilson streets.
- 71 Corbett and Whittaker streets.
- 72 Corbett and Bancroft streets.
- 73 Macadam and Thomas streets.
- 74 Hood and Caruthers streets.
- 75 Second and Sheridan streets.
- 76 Jones' Mill, Macadam road.
- 78 Foot of Lincoln street.
- 79 Macadam and Bancroft streets.
- 81 South Front and Gibbs streets.
- 82 Corbett and Porter streets.
- 83 Macadam and Railroad streets.
- 84 Idaho and Virginia streets.
- 85 Fifth and Columbia streets.
- 86 Sixteenth and Jefferson streets.
- 87 Seventeenth and Spring streets.
- 89 Twentieth and Clifton streets.
- 91 N. P. Lumber Mill Yard.
- 92 Front and Overton streets.
- 93 St. Vincent's Hospital.
- 94 Twenty-fourth and Xavier streets.
- 95 Eastern Lumber Company.
- 96 Fifteenth and Pettygrove streets.
- 97 Twenty-third and Roosevelt streets.
- 98 Thirty-second and Thurman streets.
- 121 Third and Morrison streets.

FIRE ALARM BOXES—Continued

West Side—

- 123 Front and Salmon streets.
- 124 First and Hall streets.
- 125 Fourth and Mill streets.
- 126 First and Jefferson streets.
- 127 Fourth and Salmon streets.
- 128 Eleventh and Market streets.
- 129 Sixteenth and Montgomery streets.
- 131 Seventh and Washington streets.
- 134 Sixth and Salmon streets.
- 135 Fifth and Washington streets.
- 136 Portland Hotel.
- 137 St. Clair street and Park avenue.
- 138 Twenty-third and Washington streets.
- 139 Twenty-second and Irving streets.
- 141 Third and Oak streets.
- 142 Third and Davis streets.
- 143 Steel Bridge Office.
- 145 Seventeenth and Kearney streets.
- 146 Sixth and Irving streets.
- 147 Park and Hoyt streets.
- 148 Foot of Lovejoy street.
- 149 Weidler's Mills.
- 152 Morrison Street Bridge Office, West Side.
- 153 Foot of Salmon street.
- 154 Foot of Jefferson street.
- 156 Pennoyer's Mill.
- 161 First and Oak streets.
- 162 Foot of Stark street.
- 163 Foot of Pine street.
- 164 Foot of Vine street.
- 165 Burnside Bridge, West Side.
- 167 Foot of Flanders street.
- 172 Foot of Wilson street.
- 173 N. P. Lumber Mills.
- 181 Lownsdale and Morrison streets.
- 182 Sixth and Alder streets.
- 183 Sixth and Pine streets.
- 184 Fifth and Oak streets.

East Side—

- 212 East Eighth and Taylor streets.
- 213 Water and East Morrison streets.
- 214 Hawthorne avenue and East Water street.
- 215 Grand avenue and East Clay street.

FIRE ALARM BOXES—Continued

East Side—

- 216 East Eleventh and Stephens streets.
- 217 East Twelfth and East Morrison streets.
- 218 East Twelfth and East Ankeny streets.
- 219 East Ninth and East Oak streets.
- 231 Union avenue and East Oak street.
- 232 Grand avenue and East Salmon street.
- 234 Grand avenue and East Morrison street.
- 235 Grand avenue and East Burnside street.
- 236 Union and Holladay avenues.
- 237 Larrabee and Holladay avenue.
- 238 Larrabee and Broadway streets.
- 241 East Ninth and East Davis streets.
- 242 East Sixteenth and East Davis streets.
- 243 East Sixteenth and East Morrison streets.
- 245 East Twentieth and East Taylor streets.
- 246 East Twenty-second and East Ankeny streets.
- 247 East Twenty-eighth and East Burnside streets.
- 248 East Thirty-fifth and Belmont streets.
- 249 East Thirtieth and East Stark streets.
- 251 East Seventh and East Harrison streets.
- 252 East Eighth and Brooklyn streets.
- 253 East Eleventh and Division streets.
- 254 Foot of East Main street.
- 256 Madison Street Bridge, East Side.
- 257 Foot of Division street.
- 258 Grand avenue and Caruthers street.
- 259 East Eleventh and Beacon streets.
- 261 Morrison Street Bridge, East Side.
- 262 East Fourteenth and Main streets.
- 263 Foot of East Washington street.
- 264 Foot of East Ankeny street.
- 265 Burnside Street Bridge, East Side.
- 267 Standard Oil Warehouse, East Water and East Madison streets.
- 268 East Twenty-eighth and Belmont streets.
- 269 East Forty-second and Taylor streets.
- 271 East Twenty-first and Powell streets.
- 272 East Twenty-first and Division streets.
- 273 East Twenty-second and East Madison streets.
- 274 East Twenty-sixth and Brooklyn streets.
- 275 East Thirtieth and Hawthorne avenue.
- 276 East Thirty-fourth and Division streets.
- 278 East Thirty-ninth and Hawthorne avenue.

FIRE ALARM BOXES—Continued

East Side—

- 279 East Thirty-second and Gladstone streets.
- 291 Milwaukie and Caywood streets.
- 292 East South avenue and Milwaukie street.
- 293 East Eleventh and Leo avenue.
- 294 East Eighth street and Umatilla avenue.
- 295 East Nineteenth and Umatilla streets.
- 296 East Thirteenth and Sherrett.

Albina—

- 312 Russell and Railroad streets.
- 313 Commercial and Shaver streets.
- 314 Goldsmith street and Albina avenue.
- 315 Mississippi avenue and Stanton street.
- 316 Williams avenue and Russell street.
- 317 Williams avenue and McMillen street.
- 318 Union avenue and San Rafael street.
- 319 Union avenue and Russell street.
- 321 Mississippi avenue and Fremont street.
- 324 Mississippi avenue and Mason street.
- 325 Williams avenue and Mason street.
- 326 Williams avenue and Fremont street.
- 327 Union avenue and Morris street.
- 328 Union avenue and Failing street.
- 329 East Fifteenth and Broadway.
- 341 Russell and Borthwick streets.
- 342 Williams avenue and Morris streets.
- 343 East Eleventh and Tillamook streets.
- 345 Borthwick and Fargo streets.
- 348 Twenty-first and Wasco streets.
- 349 Twenty-sixth and Weidler streets.
- 351 Steel Bridge, East Side.
- 352 Foot of Broadway.
- 354 Goldsmith and Albina avenue.
- 356 Albina avenue and River.
- 357 Foot of Russell.
- 358 P. C. Elevator Wharf.
- 361 East Sixth and Halsey streets.
- 362 Williams avenue and Alberta streets.
- 363 East Eighth and Going streets.
- 364 Fourteenth and Alberta streets.
- 381 Killingsworth and Albina avenues.
- 382 Rodney avenue and Ainsworth street.
- 383 Oneonta avenue and Durham street.

FIRE ALARM BOXES—Continued

Automatic—

- 512 Meier & Frank Warehouse, Seventh and Taylor streets.
- 513 Fleischner, Mayer & Co., First and Vine streets.
- 514 Rothchild Bros.
- 515 Gauld Co., First and Burnside streets.
- 516 Honeyman Hardware Company.
- 517 Closset & Devers.
- 518 Portland General Electric Co., Twenty-first and Nicolai streets.
- 519 Wadhams & Co., Fourth and Oak.
- 521 Mt. Hood Shirt Co., Second and Couch streets.
- 523 Olds, Wortman & King.
- 524 Noon Bag Company.
- 525 Zan Bros.' Broom Factory, Twelfth and Lovejoy.
- 526 Alisky Building, Third and Morrison streets.
- 527 Meier & Frank Co.
- 531 Goodyear Rubber Company, Fourth and Pine.
- 532 Crane Co., Second and Ash streets.
- 534 Mason, Ehrman & Co.
- 536 McCracken's Warehouse.
- 537 Blumauer-Frank Drug Company.
- 541 H. Wolf & Sons, First and Oak streets.
- 542 Blake-McFall Company.
- 543 Neustadter Bros.
- 546 Lang & Co., First and Ankeny.
- 547 George Lawrence Co., First and Oak streets.
- 561 Allen & Lewis, Front and Davis streets.
- 562 M. Sellar & Co., Fifth and Pine streets.
- 563 Fuller & Co., Front and Pine streets.
- 564 Van Schuyver & Co., Second, bet. Washington and Stark.
- 567 R. M. Wade & Co., northeast corner First and East Clay.
- 568 J. I. Case Co., southeast corner First and East Clay.

FIRE ALARM TELEGRAPH—INVENTORY OF MATERIAL
ON HAND

137 miles of outside line wire on poles, 73 fire alarm signal boxes, 56 fire alarm signal boxes, 31 fire alarm signal boxes, 53 keyless doors, 34,350 feet 2-pair rubber-covered underground cable, 13,500 feet 4-pair rubber-covered underground cable, 12,500 feet 3-pair rubber-covered underground cable, 6,900 feet 6-pair rubber-covered underground cable, 2,000 feet 1-pair rubber-covered underground cable, 3,500 feet 1-conductor rubber covered underground cable, 40,000 feet 1-pair rubber-covered underground cable, 1 tower bell and striker, 6 tower bells,

2 whistles and blowers, 3 Gamewell switchboards, 929 cells storage battery, 3 marble protector panels, 2 automatic repeaters, 2 repeater stands, 1 four-plate, single-dial Manual transmitter, 1 stand for transmitter, 1 oak frame for switchboards, 22 large-hole perforating registers, 1 ink marking register, 16 small-hole perforating registers, 1 manual transmitter and character wheels, 1 time stamp, 34 six-inch turtle gongs, 1 18-inch dial Seth Thomas Clock, 1 portable volt meter, 2 battery volt meters, 1 oak stand for time stamp, 49 iron posts and locks for fire alarm boxes, 22 instrument boards, 21 electric light brackets, 1 set maps of City of Portland, 12 automatic paper tape winders, 1 10-circuit telephone cabinet, lamps, relays, etc., for transmitter, 12 portable telephones and leather cases, 100 telephone jacks, 1 decade testing set, 12 18-inch gongs, 10 15-inch gongs, 1 14-inch gong, 1 15-inch gong and indicator, 9 8-inch gongs, 3 6-inch gongs, 8 visual indicators, 60 small relays, 12 main line relays, 11 W. E. relays, 3 call bell sets, 43 automatic switches, 20 telephone extension bell switches, 2 slate base switches, 1 oak relay case, 158 S. P. D. T. switches, 12 No. 5600 fuse blocks and fuses, 1,200 feet 6-pair submarine cable, 1 set blue prints for gong case and strikers, 1 set alarm box case patterns, 1 set fire alarm box post patterns, 1 set stall door and horse unhitcher patterns, 2,028 feet circular loom, 20 pounds magnet wire, 7 miles No. 10 weather-proof iron wire, 2 pounds insulators, 40,131 feet No. 14 rubber-covered wire, 8 poles, 5,823 feet 1½-inch black iron pipe, 450 feet 1½-inch black iron pipe, 1,600 feet 1-inch black iron pipe, 500 feet ¾-inch black iron pipe, 12,000 feet stranded guy wire, 61 horse unhitchers, 9 stall door openers, 47 pounds assorted magnet wire, 1 stop watch, 1 pair 6-foot cable wheels, 1 strong back, 1 winch, 1 6-inch iron snatch block, 500 feet 5-16-inch wire rope, 2 canvas man-hole covers, 8 gallons, ozite compound, 1 boxwood dresser, 1 two-wheel push cart, 2 hand saws, 7 cable terminal boxes, 1 work bench, 1 blow torch, 1 tool box, 2 bits for brace, 1 pair comealongs, 1 set block and tackle, 2 wire reels, 1 steel tape line, 1 brace, 1 hacksaw, 6 padlocks, 1 screwdriver, 1 drawknife, 1 hand ax, 1 melting pot and ladle, 2 pair pliers, 1 Yankee drill and bits, 2 posthole diggers, 3 picks and shovels, 2 lanterns, 1 pipe reamer, 2 quarts vermilion paint, 21 cans block paint, 1 gallon varnish, 1 gong spring, 1 electric soldering iron, 1 level and square, 1 S wrench, 4 steel drills, 1 wood chisel, 2 14-inch stilson wrenches, 2 lag wrenches, 1 2½-inch vibrating bell.

INVENTORY OF MACHINE SHOP.

4 lathe arbors, 3 butt expanders (3-inch, 2½-inch, 1½-inch), 1 hand bellows, 1 brazing bellows and burner, 2 boring bars, 7 2-inch belts, 3 1½-inch belts, 2 4-inch belts, 4 flue beaders, 1 3-inch Cushman chuck, with two sets of jaws, 1 9-inch Union Mfg. Co. scroll chuck, with two

sets of jaws, 1 6-inch Independent chuck, with 1 set of jaws, 1 Pratt Company dill chuck, 1 Millers Falls Co. pin chuck, 1 15-inch 4-jaw chuck, 2 pipe cutters, 9 small cold chisels, 1 coal stove and pipe, 1 coupling for line shafting, 10 cold chisels, 1 ¾-inch countersink, 1 ton chain blocks, 2 6-inch screw clamps, carborundum wheels, 8-inch and 7-inch, 2 chisel bars, 2 hollow cutters, ¼-inch and ⅜-inch, 3 counter bores, 1 20-inch Barnes drill press, 1 portable hand press, 1 chain press for brace, 2 machinist ratchet (9-inch and 10-inch), pipe dies (⅜-inch, ½-inch, 1-inch), 2 boiler tube dies, 1 ¾-inch left-hand Armstrong dies, 1 pipe die stock, 1 1-inch left-hand Armstrong dies, 1 2½-inch hose nipple die, 1 set of wire gauge drills (70 drills), 32 Morse twist drills, assorted sizes, 1 set of seven Green River dies, from ¼-inch to ½-inch, 1 emery wheel, 1 set alphabet dies, 3 sets of numbering dies, 8 lathe dogs, 1 gasoline blow pot, 1 file card, 1 gauge plate for taps and drills, 1 gear cutting attachment, 6 hangers for main shafting, 1 soft hammer, 3 knurling tools, 1 knurling handle, 1 12-inch 6-foot Barnes lathe, 22 gear wheels, 1 countershaft, 1 steady rest, 1 follower rest, 1 pad center, 1 crotch center, 1 square center, 1 set lathe centers, 1 12-inch face plate, 1 driving plate, 1 Porter lathe (18-inch by 14 feet), 17 gear wheels, 1 countershaft, 2 steady rests, 1 18-inch face plate, 1 9-inch driving plate, 1 20-inch double ended mandrel for buffer, 1 9-inch double ended mandrel for grinder, 2 spring mandrels, 1 5-horse power G. E. motor, 2 fuse blocks, 2 switches, 1 starting rheostat, 2 7-16x4-inch milling tools, 10 milling tools, assorted, 3 milling tools for gear cutting 2 4-inch metal saws, 1 2½-inch metal saw, 1 wooden mallet, 1 nail puller, 1 oil stone, 4 oil cans, 1 old man for ratchet, 1 pair 8-inch side cutting pliers, 1 diagonal cutting pliers, 1 16-inch jack plane, 15 wooden pulleys, 10 parallels, 1 pair spring belt punch, 1 water pail, 1 11-16-inch shell reamer, 1 1½-inch shell reamer, 1 center reamer, 3 small taper reamers, 1 12-inch Smith & Mills shaper, 1 countershaft for shaper, 1 hand saw, 1 power hack saw, 1 scroll saw, 1 hack saw frame, 1 spoke shaver, 30 feet of 11-16-inch line shafting, 3 feet of 1½-inch jack shaft, 3 feet of 1½-inch countershaft, 1 pair tin snips, 1 8-inch surface plate, 1 6-inch surface plate, 6 solder irons, 5 tube expanders, 1 tee iron beam 15 feet long for carrier, 2 test pumps, 1 single end, 1 double end, 12 Armstrong tool holders, 6 hand lathe tools, 20 pounds assorted lathe tools, 25 assorted taps, 1 set of three taps (⅜-inch, 9 threads), 4 machine screw taps, 4 pipe taps, 3 odd taps for engines, 25 small machine taps, assorted sizes, 1 set of Wells Bros. taps and dies (11 sizes with stock and tap wrenches, 2 4-inch bench vises, 1 5-inch bench vise, 1 adjustable tap wrench, 1 18-inch monkey wrench, 2 15-inch monkey wrenches, 1 12-inch money wrench, 1 8-inch monkey wrench, 1 10-inch Westcott wrench, 1 single end tap wrench, 1 double end tap wrench, 20 open-end wrenches, 9 socket wrenches, 1 8-inch Stillson wrench, 1 10-inch

Stillson wrench, 1 14-inch Stillson wrench, 4 16-square files, $\frac{1}{2}$ dozen 12-inch mill files, 5 pounds spring brass wire, 10 lbs, $\frac{5}{8}$ x1 $\frac{1}{2}$ tool steel, 5 pounds, $\frac{3}{4}$ x7-16 tool steel, 30 pounds soft iron rivets, 1 pound copper rivets, 2 quires emery paper, 1 dozen machine hack saw blades, 1 dozen 9-inch hack saw blades, 2 rolls wire belt lacing, 11 springs for ceiling springs, 11 Babcock nozzles, 10 drip cocks for engine, 1 dozen 1 $\frac{1}{2}$ nipples, 3 dozen 2 $\frac{1}{2}$ nipples, 11 male slip joints, 1 female slip joint, 3 nozzle tips, 1 set roller bearings for engine, 2 ceiling springs, 1 hose clamp, 1 standpipe nozzle, 1 4-inch gate valve, 1 4x4-inch nipple, 1 4x3-inch nipple, 6 $\frac{1}{2}$ -inch unions, 6 2-inch pipe couplings, 1 chemical hose reel, 4 harness hangers, 1 12-inch gong, 2 circulating nozzles, 2 small shut-off nozzles, 3 6-inch round bastard files, 1 package 3x $\frac{1}{2}$ carriage bolts, 1 package 4x $\frac{1}{2}$ carriage bolts, 1 package 2 $\frac{1}{2}$ x $\frac{1}{2}$ machine bolts, 1 package 3x $\frac{1}{2}$ machine bolts, 1 package, 4x $\frac{1}{2}$ machine bolts, 1 package 3x $\frac{1}{2}$ machine bolts, 1 package 4x $\frac{1}{2}$ machine bolts, 1 package, 1 $\frac{1}{2}$ x $\frac{1}{2}$ machine bolts, 1 package 1 $\frac{1}{2}$ x $\frac{1}{2}$ machine bolts, 1 package 2 $\frac{1}{2}$ x $\frac{1}{2}$ machine bolts, 1 package 1 $\frac{1}{2}$ x5-16 machine bolts, 1 package, 2 $\frac{1}{2}$ x5-16 machine bolts, 1 6-inch round bastard file, 1 package 1x $\frac{1}{2}$ head cap screws, 1 12-inch round bastard file, 4 12-inch square bastard files, 3 large shut-off nozzles, 3 pipes, 8 Babcocks (out of order), 3 steam gauges, 2 2 $\frac{1}{2}$ to 1 reducers, 2 2 $\frac{1}{2}$ to 1 $\frac{1}{2}$ reducers, 2 3 to 2 $\frac{1}{2}$ -inch couplings for pony suctions, 1 3 $\frac{1}{2}$ to 2 $\frac{1}{2}$ -inch reducers, 2 dozen snap holders, 8 1 $\frac{1}{2}$ -inch lock nuts, 16 $\frac{1}{2}$ -inch lock nuts, 7 1-inch plugs, 4 $\frac{1}{2}$ -inch plugs, 1 1-inch spring pop valve, 1 $\frac{1}{2}$ -inch snap cock, 115 pounds new brass castings, 240 pounds, old scrap brass.

INVENTORY OF BLACKSMITH SHOP.

One 105-lb. anvil, 1 58-lb. anvil, 1 hot chisel, 1 cold chisel, 1 cold chisel with handle, 1 Champion portable forge, 1 2-inch flatters, 1 top and bottom fuller, 1 hammer, 1 hardy, 1 set hammer, 6 hand punches, 2 handle punches, 1 10-lb. sledge hammer, 7 swages (top and bottom), 1 2-foot square, 1 pair tin snips, 6 pair tongs, 1 5 $\frac{1}{2}$ -inch blacksmith vise, 1 bundle 1-inch band iron, 1 bundle 3-16-inch band iron, 1 bundle 5-16-inch round, 1 bundle 7-16-inch round, 1 bundle $\frac{1}{2}$ -inch round, 1 bar 4x $\frac{1}{2}$ round, 1 bar 6x $\frac{1}{2}$ round, 2 bars 2 $\frac{1}{2}$ x $\frac{1}{2}$ round, 1 bar 3x $\frac{1}{2}$ round, 1 bar 1 $\frac{1}{2}$ -inch square band iron, 1 bar mild steel, 1-inch round, 1 bar mild steel, 1 $\frac{1}{2}$ -inch round, 1 package 2x3-16 tire bolts, 2 packages 2x5-16 tire bolts, 1 package 2x3-16 carriage bolts, 1 package 2x $\frac{1}{2}$ carriage bolts, 1 package 2 $\frac{1}{2}$ x $\frac{1}{2}$ carriage bolts, 1 package 2 $\frac{1}{2}$ x $\frac{1}{2}$ carriage bolts, 1 package 3x $\frac{1}{2}$ carriage bolts, 1 package 2x3-16 carriage bolts, 1 package 2 $\frac{1}{2}$ x5-16 carriage bolts, 1 package 3x5-16 carriage bolts, 1 package 2 $\frac{1}{2}$ x $\frac{1}{2}$ carriage bolts.

CARPENTER'S TOOLS.

1 adz, 2 hand axes, 1 dozen chisels, 1 saw clamp, 3 corking irons, 1 cold chisel, 1 pair dividers, 1 drawing-knife, 1 box of files, 1 thumb gauge, 1 level, 1 mallet, 1 oil can, 2 planes, 1 pair pliers, 1 plumbob, 1 wood rasp, 1 reamer, 2 hand saws, 1 screwdriver, 1 saw set, 1 compass saw, 2 nail sets, 1 tool chest, 1 monkey wrench, $\frac{1}{2}$ dozen hammer handles, 1 chisel handle, $\frac{1}{2}$ dozen strap hinges, 2 packages lag screws, 2 gross screws.

PAINTER'S TOOLS.

1 set of falls, 1 set hooks, 50 feet of $\frac{3}{4}$ -inch rope, 3 paint brushes, 3 varnish brushes, 1 sash tool, 1 paper brush, 2 pair shears, 3 trussels, 1 paper board, 1 calcimine brush, 25 pounds yellow ochre, 25 pounds white lead, 5 pounds white glue, 10 rolls wall paper.

PATTERNS.

1 set patterns and core boxes for 2 $\frac{1}{2}$ -inch Ashworth shut-off nozzles, 1 set patterns for 1 $\frac{1}{2}$ -inch shut-off nozzles, 1 set patterns for reducers, from 2 $\frac{1}{2}$ to 1 $\frac{1}{2}$ -inch hose, 1 set patterns for increasers, from 2 $\frac{1}{2}$ to 3 inches, 1 set patterns for slip joints, 1 set patterns for snap holders, 1 set patterns for heater, 3 sets patterns for engine take-off, reducers to 3 $\frac{1}{2}$ to 3-inch, and 3 to 2 $\frac{1}{2}$ inches, 1 set patterns for Babcock, 1 set patterns for fire lighters.

WALTER J. PHILLIPS,
Acting Master Mechanic.

INVENTORY OF HYDRANT DEPARTMENT

1 Weston chain block, 1 brace, 2 corking hammers, 3 chain wrenches, 4 cold chisels, 9 corking tools, 1 14-inch cold chisel, 1 handle cold chisel, 3 horse rain covers, 1 hydrant cart, 2 2 $\frac{1}{2}$ -inch hose expanders, 1 tool for extracting bottom brasses, 3 gate keys, 1 set double harness, 1 set single harness, 2 hatchets, 2 machinist hammers, 2 Johnson pumps, 1 leather splitter, 1 level, 2 ladles, 1 lead pot, 1 lead heater, 1 oil can, 3 picks, 1 plumber's friend, 3 shovels, 4 Stillson wrenches, 3 screwdrivers, 2 hand saws, 1 steam gauge, 1 8-pound sledge, 1 spoon shovel, 1 slice bar, 4 spanners, 1 hack saw frame, 1 trowel, 1 tool chest, 1 6-inch vise, 1 washer cutter, 1 wagon and wagon top, 2 gate wrenches, 1 combination wrench, 2 10-inch Westcott wrenches, 1 8-inch Westcott wrench, 4 socket wrenches, 1 14-inch monkey wrench, 1 crosscut saw, 2 sets hydrant patterns, 3 horses.

SUPPLIES ON HAND.

6 engine take-offs, 8 Waterous valve brasses, 22 hose take-offs, 3 Port No. 1 stuffing glands, 14 Port No. 2 valve brasses, 19 studs for

Port No. 1, 9 Waterous bleader bars, 1 brass plug for hose, 3 1-inch pipe flanges, 18 Willamette hydrant caps, 2 Waterous hydrant caps, 2 Ludlow hydrant top covers, $\frac{1}{2}$ can hydrant grease, 14 $2\frac{1}{2}$ expanding hose rings, 2 $3\frac{1}{2}$ expanding hose rings, 32 $2\frac{1}{2}$ expanding hose rings, 19 $2\frac{1}{2}$ hose gaskets, 12 $2\frac{1}{2}$ hose gaskets, 66 6-inch Ludlow rubber valves, 6 4-inch Ludlow rubber valves, 2 3-inch Ludlow valves, 1 New York rubber hydrant valve, 21 Portland 2-rubber hydrant valves, 25 Waterous rubber hydrant valves, 51 Ludlow spanner nuts, 27 Portland No. 1 Independent valve stems, 5 Portland No. 1 Independent gate valves, 7 Portland No. 1 spanner brasses, 31 Waterous spanner brasses, 7 Portland No. 2 stuffing boxes, 1 main Ludlow valve complete, 2 $2\frac{1}{2}$ -inch Keystone hose jackets, 700 pounds scrap iron.

WALTER J. PHILLIPS, Hydrantman.

SUPPLY HOUSE.

1 6-inch alarm bell, 1 sawdust stove, 2 bedsteads, 2 mattresses, 1 blanket, 1 pillow, 1 scoop shovel, 1 hay fork, 1 stable broom, 1 house broom, 1 dust pan and brush, 1 coal scuttle, 2 harness hangers, 50 feet $\frac{1}{2}$ -inch hose, 1 chamois skin, 1 sponge, 2 iron beds (useless), 4 4-inch double blocks, 1 4-inch snatch block, 2 ceiling springs, 5 Berry horse collars, 1 crowbar, 3 barrels cement, 8 Eclipse door springs, 2 dummies, 1 second-class Silsby engine (useless), 1 second-class Waterous reserve engine, 1 set single cart harness (useless), 2 sets double harness, 9 hose blocks, 4 hose carts, 2 hose carts (useless), 1 hose carriage (useless), 1 20-foot ground ladder, 5,766 lineal feet lumber, 3 kegs nails, 3 extra poles and doubletrees, 9,250 shingles.

R. D. LAISNER, Supply Driver.

ANNUAL REPORT OF OFFICERS AND STAFF FOR THE YEAR ENDING DECEMBER 31, 1908

Name.	Position.	Age.	Occupation.	Residence.
David Campbell	Chief Engineer	44	Chief Engineer, F. D.	446 Jefferson street.
M. Laudenklos	Asst. Chief Engineer	50	Lineman	361 Grand avenue, North.
John E. Young	Battalion Chief	40	Marble-cutter	508 Hoyt street.
F. Dowell	Battalion Chief	38	Fireman	291 Eugene street.
Jay W. Stevens	Battalion Chief	26	Clerk	367 East Seventh street.
Charles A. Savarian	Supt. F. A. Tel.	41	Electrician	111 Thirteenth, North.
Charles F. Smith	Relief engineer	33	Engineer	835 East Flanders street.
Wilton D. Olden	Instrument maker	35	Instrument maker	307 Marguerite avenue.
Fred Wessinger	Machinist	32	Machinist	370 Stephens street.
W. J. Phillips	Hydrantman	31	Machinist	766 Ivon street.
Earl Chase	Hydrantman	26	Boiler helper	.....
Harry C. Wright	Switchboard operator	29	Structural iron worker	338 Grant street.
Harry Beck	Switchboard operator	24	Fireman	311 Hancock street.
Roy J. Abbott	Switchboard operator	24	Asbestos worker	487 East Stark street.
R. D. Laisner	Supply driver	24	Laborer	296 Ivy street.
J. L. Ambrose	Lineman F. A. Tel.	33	Lineman	286 Montgomery street.
W. L. Trullinger	Lineman F. A. Tel.	37	Lineman	94 Fourteenth street, N.
C. D. McConohy	Lineman F. A. Tel.	30	Lineman	191 Fourteenth street.

Resigned—Lee G. Holden, Battalion Chief, January 31, 1908; E. Fouchet, switchboard operator, January 15, 1908; H. V. Swan, lineman, October 16, 1908.

Died—George L. Stewart, master mechanic, October 8, 1908; W. H. McMullen, relief engineer, March 21, 1908.

Transferred—E. L. Nelson, switchboard operator, to Engine No. 12, June 3, 1908.

ANNUAL REPORT OF FIRE BOAT GEO. H. WILLIAMS, CO. NO. 1, FOR THE YEAR ENDING DECEMBER 31, 1908

Location, Foot of East Washington Street

Badge	Name.	Position.	Age	Occupation.	Residence.
200	Henry C. Johnson.....	Captain	34	Undertaker	87 East Eleventh street.
201	Thos. A. Grenfell.....	Lieutenant, Acting.....	27	Laborer	Fire boat.
202	W. H. Whitcomb	Master	37	Master	49 East Ninth street.
203	W. H. Sanford	Pilot	30	Pilot	245 East Sixth street.
204	Chas. Specknagle	First engineer	45	Engineer	Lents.
205	George Epperly	Second engineer	41	Engineer	111 East Thirty-fourth.
206	John W. Bellew.....	Third engineer	46	Engineer	504 Hawthorne avenue.
211	W. J. Miller.....	Hoseman	29	Steamboatman	745 East Ash street.
201	Albert W. Besgen	Hoseman	24	Fireman	Fire boat.
213	Frank R. Gouldstone.....	Hoseman	31	Coxswain	1358 Hawthorne avenue.
217	William A. Groce.....	Hoseman	22	Printer	210 Montgomery street.
209	Edwin S. Glace.....	Hoseman	22	Teamster	Fire boat.
155	Robert E. Walter.....	Hoseman	28	Clerking	629 Pettygrove street.
214	Samuel H. Conrad.....	Hoseman	25	Butcher	Fire boat.
210	Harry M. Niles.....	Hoseman	24	Fireman	Fire boat.
212	M. V. Brown.....	Driver	28	Baker	Fire boat.
207	H. S. Littlefield.....	Stoker	29	Fireman	Fire boat.
208	Edward O. Dunlap.....	Stoker	23	Fireman	804 Corbett street.
156	F. McCause.....	Stoker	24	Fireman	Fire boat.

No. of alarms responded to, 69; Bell, 58; telephone, 3; still, 8. Hours in service, 55:16.

ANNUAL REPORT OF FIRE BOAT CO. NO. 1—Continued

Appointments—Richard W. Pryke, January 8; Frank G. Holterman, January 13; Albert W. Besgen, January 15; Frank R. Gouldstone, January 18; W. W. Babbidge, February 1; Fred E. Waud, February 13; Edward O. Dunlap, February 13; John W. Bellew, February 26; William A. Groce, March 3; Edwin S. Glace, March 6; Robert E. Walter, May 19; H. W. Hull, July 3; F. McCause, July 15; W. H. Sanford, September 1; Samuel H. Conrad, October 1; Harry M. Niles, December 1.

Transfers—Captain W. M. Smith from fire boat to Truck Co. No. 5, January 9; M. V. Brown, from Hose Co. No. 3 to fire boat, January 10; R. I. Voss, from fire boat to Truck Co. No. 2, March 6; William A. Ezard, from fire boat to Engine Co. No. 14, May 19; Earl Chase, from fire boat to Supply House, July 3.

Resignations—Everett S. Pechin, January 18; W. W. Babbidge, August 31; Frank G. Holterman, September 20; H. W. Hull, November 30.

Removals—Richard W. Pryke, February 19; Fred E. Waud, May 15.

Inventory—Apparatus, 1 fire boat, name Geo. H. Williams, 1 hose wagon; hose, 2,050 feet of 3½-inch, 4,200 feet of 2½-inch, 50 feet of 2-inch, 75 feet of 1-inch, 100 feet of 1½-inch; horses, 2; harness, 1 double set.

ANNUAL REPORT OF ENGINE CO. NO. 1, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 170 Fourth Street, Between Yamhill and Morrison

Badge	Name.	Position.	Age	Occupation.	Remarks.
1	A. W. Dolson	Captain	41	Lather	170 Fourth street.
2	George Johnson	Lieutenant	26	Fireman	170 Fourth street.
3	E. C. Smith	Engineer	31	Engineer	170 Fourth street.
4	J. L. Mountain	Stoker	24	Fireman	170 Fourth street.
5	F. O. Knox	Driver	32	Teamster	170 Fourth street.
6	Charles Pierce	Hoseman	47	Lineman	170 Fourth street.
7	E. J. Charbonneau	Hoseman	24	Embalmer	170 Fourth street.
8	R. W. Evans	Hoseman	27	Clerk	170 Fourth street.
9	E. G. Heath	Hoseman	35	Teamster	170 Fourth street.
10	John Lennox	Driver	29	Teamster	170 Fourth street.

No. of alarms responded to, 214; Bell, 112; telephone, 97; still, 5. Hours in service, 153:15.
 Appointments—R. W. Evans, January 8; E. M. Wissinger, February 13.
 Transfers—C. O. Williams, to Engine 3, February 13; W. C. Tyson, from Engine 5, July 16; J. L. Mountain, from Engine 10, December 31.
 Resignations—E. M. Wissinger, July 16; W. C. Tyson, December 20.
 Accidents at Fires—R. W. Evans, cut on hand, January 14, at Box 63; E. G. Heath, hurt his knee, July 3, at Box 146; Lieutenant Johnson, run a nail in foot, July 23, at Box 13.
 Inventory—Apparatus, one hose wagon, 1 extra first-class Metropolitan engine; hose, 1,985 feet 2½-inch, wax and gum treated, 300 feet 1½-inch, wax and gum treated; horses, 5; harness, 1 double set, 1 triple set.

ANNUAL REPORT OF ENGINE CO. NO. 3, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 510 Washington Street.

Badge	Name.	Position.	Age	Occupation.	Residence.
30	Jas. Dillane	Captain	33	Fireman	510 Washington street.
31	W. H. Maas	Lieutenant	28	Ratchet-setter	510 Washington street.
32	G. W. Allen	Engineer	34	Engineer	300 Fifth street.
33	P. J. Loomis	Stoker	34	Fireman	253 North Sixteenth street.
34	J. S. Freeman	Driver	34	Teamster	510 Washington street.
35	Archie L. McMartin	Hoseman	26	Laborer	570 Mill street.
36	Ira Fitzgerald	Driver	23	Laborer	510 Washington street.
37	George J. Felton	Hoseman	30	Fireman	510 Washington street.
38	William Logan Robertson	Hoseman	24	Cook	510 Washington street.
39	Wade H. Preston	Hoseman	27	Druggist	510 Washington street.

No. of alarms responded to, 177; Bell, 121; telephone, 44; still, 12. Hours in service, 132:55.
 Appointments—Lewis G. Simon, hoseman, January 18; Wade H. Preston, hoseman, April 2; Archie L. McMartin, hoseman, June 16.
 Transfers—William H. Hembree, engineer, to Engine No. 13, January 9; Clarence O. Williams, stoker, Engine No. 1, to engineer of Engine No. 3, February 13; Lewis G. Simon, hoseman, to Engine No. 6, April 2; J. P. Loomis, stoker, from Engine No. 10, April 6; Clarence O. Williams, engineer, to Engine No. 15, July 17; G. W. Allen, stoker, Engine No. 7, to engineer of Engine No. 3, July 17.
 Resignations—Arthur A. Cooper, hoseman, January 18; T. H. Russell, hose driver, June 13.
 Accidents at Fires—W. H. Green, hoseman, detailed from Chemical No. 1; teeth knocked out December 5, at Box 63, 9:35 P. M.
 Inventory—Apparatus, 1 extra first-class Metropolitan engine, 1 hose wagon; hose, 1,937 2½-inch Keystone, 300 feet 1½-inch Keystone; horses, 5; harness, 1 double set, 1 triple set.

ANNUAL REPORT OF ENGINE CO. NO. 4, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 370 Fourth Street

Badge.	Name.	Position.	Age.	Occupation.	Residence.
40	J. B. Simpson.....	Captain.....	42	Fireman.....	425 Fifth street.
41	G. Montague.....	Lieutenant.....	30	Fireman.....	370 Fourth street.
42	C. L. Winters.....	Engineer.....	35	Engineer.....	383 1/2 Fourth street.
47	L. D. Truman.....	Driver.....	32	Clerk.....	370 Fourth street.
43	T. Pedersen.....	Driver.....	27	Teamster.....	370 Fourth street.
46	M. Metzler.....	Hoseman.....	27	Butcher.....	370 Fourth street.
45	G. Finney.....	Hoseman.....	26	Woodsmen.....	370 Fourth street.
44	H. H. Beaumont.....	Stoker.....	44	Engineer.....	370 Fourth street.

No. of alarms responded to, 177: Bell, 122; telephone, 52; still, 3. Hours in service, 138:45.
 Appointments—T. Pederson, January 8; G. Finney, January 10; H. H. Beaumont, July 18.
 Transfers—Lieutenant E. L. Johnson, from Engine 4 to Truck 2, June 6; G. Montague, from Truck 1 to Engine 4, as lieutenant, June 6.
 Inventory—Apparatus, 1 first-class Metropolitan engine, 1 hose wagon, complete; hose, 2,000 feet 2 1/2-inch Victor Jacket, 300 feet 1 1/2-inch Keystone; horses, 5; harness, 1 double set, 1 triple set; 1 Coleman heater, 3-horsepower.

ANNUAL REPORT OF ENGINE CO. NO. 5, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 811 Front Street.

Badge.	Name.	Position.	Age.	Occupation.	Residence.
50	L. N. Riley.....	Captain.....	44	Fireman.....	808 First street.
53	Thomas Clarence Turley.....	Acting lieutenant.....	22	Teamster.....	845 First street.
52	E. L. Thompson.....	Engineer.....	33	Engineer.....	812 Front street.
54	Fred Fox.....	Driver.....	46	Wood sawyer.....	234 Curry street.
51	Oral M. Poindexter.....	Driver.....	23	Laborer.....	811 Front street.
55	J. P. Bird.....	Hoseman.....	27	Fireman.....	630 Fifth street.
56	J. W. Van Lom.....	Hoseman.....	24	Teamster.....	784 Hood street.
57	John J. Touhey.....	Stoker.....	27	Machinist.....	811 Front street.

No. of alarms responded to, 61: Bell, 44; telephone, 12; still, 5. Hours in service, 31:55.
 Appointments—W. C. Tyson, March 17; Oral M. Poindexter, June 1; John J. Touhey, July 18.
 Transfers—Andry Bascomb to Engine 4, March 17; W. C. Tyson, to Engine 1, July 16.
 Resignation—A. G. Steele, May 25.
 Accidents at Fires—Hoseman J. P. Bird, July 28, sprained back, bruised leg.
 Inventory—Apparatus, 1 third-class Clapp & Jones engine, 1 hose wagon; hose, 1,900 feet 2 1/2-inch, 300 feet 1 1/2-inch; horses, 5; harness, 1 double set, 1 triple set.

ANNUAL REPORT OF ENGINE CO. NO. 6, FOR THE YEAR ENDING DECEMBER 31, 1908

Location, Twenty-second and Nicolai Streets

Badge	Name.	Position.	Age	Occupation.	Residence.
60	W. C. Slaughterback	Captain	43	Planer	769 Roosevelt street.
67	Sigurd Olson	Acting lieutenant	28	Longshoreman	485 North Twenty-first.
62	Warren F. Smith	Engineer	40	Engineer	729 Roosevelt street.
61	John Junor	Stoker	27	Engineer	369 North Twenty-third.
66	Herbert A. Miller	Engine driver	24	Blacksmith	Engine house.
65	Lewis G. Simon	Hose driver	28	Teamster	517 1/2 North Twenty-first.
64	Burnard D. Hutchings	Hoseman	24	Teamster	Engine house.
63	W. T. Murphy	Hoseman	23	Plumber	915 Thurman.

No. of alarms responded to, 50; Bell, 38; telephone 6; still, 6. Hours in service, 78:35.
 Appointments—Herbert A. Miller, hoseman, January 9; W. H. Royle, hoseman, October 5; John Junor, stoker, October 31; W. T. Murphy, hoseman, December 1.
 Transfers—Joseph O. Denzel, hoseman, to Truck Co. No. 4, January 9; William A. West, hoseman, to Truck Co. No. 1, April 2; Lewis G. Simon, hoseman, from Engine Co. No. 3, April 2.
 Resignation—W. H. Royle, hoseman, November 23.
 Accidents at Fires—Herbert A. Miller, hoseman, hand cut (still), June 17; A. L. McMartin, hoseman, detailed for duty from Engine Co. No. 3, fell from tower, injured spine, September 4.
 Inventory—Apparatus, 1 Clapp & Jones second-class engine, 1 hose wagon; hose, 2,000 feet waxed 2 1/2-inch Keystone, 300 feet 1 1/2-inch Victor, cotton; horses, 5; harness, 1 triple set, 1 double set.

ANNUAL REPORT OF ENGINE CO. NO. 7, FOR THE YEAR ENDING DECEMBER 31, 1908

Location, 40 East Third Street

Badge	Name.	Position.	Age	Occupation.	Residence.
70	E. J. Wolcott	Captain	33	Horseshoer	305 Fifth street.
71	S. C. Smith	Engineer	37	Engineer	366 East Glisan street.
72	D. L. Penney	Engine driver	37	Teamster	26 East Third street.
73	J. G. Wigginton	Wagon driver	26	Clerk	386 East Lincoln street.
74	James Monto	Hoseman	26	Fireman	40 East Third street.
75	F. J. McFarland	Hoseman	22	Salesman	600 East Seventeenth.
76	J. W. Taylor	Hoseman	21	Electrician	40 East Third street.
77	D. C. Millican	Stoker	28	Engineer	40 East Third street.

No. of alarms responded to, 83; Bell, 49; telephone, 25; still, 9. Hours in service, 78:04.
 Appointment—James W. Taylor, hoseman, October 3.
 Transfers—Acting Lieutenant A. W. Wefel, to Engine 13, January 11; Stoker G. W. Allen, to Engine 14, January 11; Hoseman, F. J. McFarland, from Engine 13, February 15; Stoker G. W. Allen from Engine 14, March 2; Stoker G. W. Allen to Engine 9, March 3; Stoker G. H. Hill from Engine 14, June 11; Stoker D. C. Millican, from Engine 12, August 22.
 Resignation—F. L. Jaques, September 30.
 Removal—Stoker G. H. Hill, August 22.
 Accidents at Fires—F. L. Jaques, head cut at Box 231, May 28; James Monto, elbow dislocated at Box 13, September 8.
 Inventory—Apparatus, 1 second-class Metropolitan engine, 1 hose wagon; hose, 1,000 feet 2 1/2-inch Keystone, 1,000 feet 2 1/2-inch Paragon, 300 feet 1 1/2-inch Keystone; horses, 5; harness, 1 triple set, 1 double set.

ANNUAL REPORT OF ENGINE CO. NO. 8, FOR THE YEAR ENDING DECEMBER 31, 1908
 Location, 287 Russell Street

Badge.	Name.	Position.	Age.	Occupation.	Residence.
80	F. B. May.....	Captain	43	Painter	286 Stanton street.
82	J. H. Campbell.....	Engineer	37	Engineer	1042 Williams avenue.
83	J. Rickers	Driver engine	27	Hatter	287 Russell street.
84	O. H. Bray.....	Driver wagon.....	26	Teamster	344 Russell street.
81	W. S. Walling.....	Hoseman	26	Carpet weaver	423 Mildred avenue.
86	J. McKillop	Hoseman	24	Fireman	287 Russell street.
85	C. B. Pemberton.....	Hoseman	22	Butcher	213 Morris street.
87	R. E. McMichael	Stoker	32	Inspector	772 Williams avenue.

No. of alarms responded to, 52: Bell, 20; telephone, 26; still, 6. Hours in service, 49:45.
 Appointments—J. McKillop, January 10; C. B. Pemberton, January 12; J. H. Campbell, February 13.
 Transfers—L. P. Brown to Chemical 4, January 9; J. G. Stevens to Chemical 4, January 9; J. Rickers from
 Truck 4 to Engine 8, January 9.
 Inventory—Apparatus, 1 third-class Clapp & Jones engine, Fox boiler, new August 22, 1905; 1 hose wagon;
 hose, 1,850 feet 2½-inch, 300 feet 1½-inch; horses, 4; harness, 2 double sets.

ANNUAL REPORT OF ENGINE CO. NO. 9, FOR THE YEAR ENDING DECEMBER 31, 1908
 Location, 162 East Thirty-fifth Street

Badge.	Name.	Position.	Age.	Occupation.	Residence.
115	Wm. Hansen	Captain	45	Carpenter	165 East Thirty-fifth street.
97	W. H. Case	Lieutenant	33	Painter	167 East Thirty-fifth street.
90	R. L. Correll	Engineer	52	Engineer	164 East Thirty-fifth street.
93	Clyde W. May.....	Stoker	35	Marine engineer	145 East Forty-sixth.
95	Norris C. Davis.....	Driver	33	Teamster	211 East Thirty-fifth street.
98	John A. Schmidtke	Driver	27	Teamster	1061 East Taylor street.
117	Siles E. Moser.....	Hoseman	34	Upholsterer	782 East Salmon street.
91	J. A. Kline.....	Hoseman	28	Chaufeur	186 East Thirty-seventh.

No. of alarms responded to, 53: Bell, 19; telephone, 33; still, 1. Hours in service, 87.
 Appointments—Howard D. Poor, January 8; Clyde W. May, July 20; J. A. Kline, December 11.
 Transfer—D. C. Millican to Engine 12, July 20.
 Resignation—Howard D. Poor, December 31.
 Inventory—Apparatus, 1 fifth-class Amoskeag engine, 1 combination hose wagon; hose, 1,850 feet 2½-inch,
 150 feet ¾-inch chemical hose; horses, 4; harness, 2 double sets.

ANNUAL REPORT OF ENGINE CO. NO. 10, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 1250 Macadam Road

Badge	Name.	Position.	Age	Occupation.	Residence.
110	R. J. Williams.....	Captain	29	Gasmaker	1001½ Corbett street.
111	J. C. Drain.....	Acting lieutenant	29	Teamster	156 Boundary avenue.
114	A. J. Hauser	Engineer	32	Steam engineer	1281 Corbett street.
117	John Feretti	Driver engine	31	Teamster	326 Front street.
115	M. R. Hanson.....	Driver hose	24	Teamster	999 Corbett street.
116	John Metzler	Hoseman	24	Laborer	1266 Hood street.
113	J. L. R. Single.....	Hoseman	24	Millwright	1283 Corbett street.
112	A. A. Derrickson, Sub.....	Stoker	24	Machinist	329 Stark street.

No. of alarms responded to, 24; Bell, 12; telephone, 4; still 8. Hours in service, 39:50.
Appointments—John Metzler, hoseman Engine 10, January 10; J. L. R. Single, hoseman Engine 10, April 1.

Transfers—A. M. Crewse, lieutenant Engine 10, to captain Hose 2, March 31; R. J. Williams, lieutenant Truck 2, to captain Engine 10, April 22; A. J. Hauser, stoker Engine 11, to engineer Engine 10, April 6; P. J. Loomis, stoker Engine 10, to stoker Engine 3, April 6; E. V. Hale, captain Engine 10, to captain Chemical 2, April 22; J. L. Mountain, stoker Engine 11, as stoker Engine 10, July 26; J. L. Mountain, stoker Engine 10, as stoker Engine 1, December 31.

Resignation—J. M. Mallon, stoker engine 10, July 26.
Inventory—Apparatus, 1 fourth-class Silsby engine, 1 hose wagon; hose, 1,950 feet 2½-inch cotton hose, 300 feet 1½-inch cotton hose, 50 feet 1-inch hose (old, discarded); horses, 4; harness, 2 double sets.

ANNUAL REPORT OF ENGINE CO. NO. 11, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 545 Powell Street

Badge	Name.	Position.	Age	Occupation.	Residence.
220	Everett V. Borden	Captain	37	Painter	381 East Eighth street.
227	George W. Weygandt.....	Acting lieutenant.....	33	Electrician	768 East Twenty-first.
227	Jesse Tharp	Engineer	36	Engineer	549 Powell street.
221	Augustus B. Crow.....	Stoker	36	Stoker	549 Gideon street.
226	Charles A. Sylvester.....	Driver	25	Teamster	547 Powell street.
224	Victor Neal	Hoseman	28	Carpenter	604 Milwaukee street.
225	Charles W. Timmerman.....	Hoseman	24	Seaman	362½ East Morrison street.
223	Martin E. McCue.....	Hoseman	24	Molder	642 Tillamook street.

No. of alarms responded to, 40; Bell, 13; telephone, 27. Hours in service, 55:53.
Appointments—A. J. Houser, February 13; J. Tharp, March 10; J. L. Mountain, April 6; C. W. Timmerman, April 27; M. E. McCue, April 30; A. B. Crow, November 1.
Transfers—H. A. Bates to Hose No. 4, February 13; A. J. Houser to Engine No. 10, April 6; J. L. Mountain to Engine No. 10, July 26.

Removals—J. Curran, April 2.
Accident at Fire—C. A. Sylvester run over by engine July 7.
Inventory—Apparatus, 1 Metropolitan engine, third class, 1 hose wagon; hose, 2,000 feet Keystone, 2½-inch, wax treated; 300 feet 1½-inch Bowers; horses, 4; harness, 2 double sets.

ANNUAL REPORT OF ENGINE CO. NO. 12, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 63 East Twenty-eighth street, North.

Badge.	Name.	Position.	Age.	Occupation.	Residence.
230	F. W. Roberts.....	Captain.....	32	Paper ruler.....	70 East Twenty-seventh, N.
231	Fred B. Day.....	Acting lieutenant.....	28	Carwifer.....	865 East Couch street.
232	Geo. C. Waldron.....	Engineer.....	29	Engineer.....	63 East Twenty-eighth, N.
233	C. C. Martin.....	Driver engine.....	30	Teamster.....	847 East Davis street.
235	R. C. Fisher.....	Driver wagon.....	33	Teamster.....	40 East Twenty-eighth, N.
239	Chester A. Groat.....	Hoseman.....	23	Clerk.....	1468 East Glisan street.
236	E. L. Nelsen.....	Hoseman.....	23	Stage carpenter.....	63 East Twenty-seventh, N.
238	Dennis Hessian.....	Stoker.....	37	Engineer.....	63 East Twenty-eighth, N.

No. of alarms responded to, 27; Bell, 11; telephone 13; still, 3. Hours in service, 49:49.

Appointments—Chester A. Groat, hoseman, January 9; Dennis Hessian, stoker, November 1.

Transfers—Chas. F. Smith to relief engineer, July 18; D. C. Millican, from Engine No. 9, July 20; John S. Buhite to Hose No. 2, August 5; E. L. Nelsen, from operator, City Hall, August 5; D. C. Millican to Engine No. 7, August 22.

Inventory—Apparatus, 1 Metropolitan engine, third class, 1 hose wagon; hose, 2,000 feet waxed Keyst one, 2½-inch, 300 feet Victor, cotton, 1½-inch; horses, 4; harness, 2 double sets.

ANNUAL REPORT OF ENGINE CO. NO. 13 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, Grand Avenue and Multnomah

Badge.	Name.	Position.	Age.	Occupation.	Residence.
167	C. F. Neale.....	Captain.....	42	Carriagesmith.....	325 Grand avenue, North.
168	A. W. Wefel.....	Lieutenant.....	28	Broom-maker.....	208 Union avenue, North.
173	W. H. Hembree.....	Engineer.....	44	Engineer.....	394 Grand avenue, North.
174	B. T. French.....	Engine driver.....	25	Teamster.....	383 East Washington.
175	J. T. Howlett.....	Hose wagon driver.....	27	Steeple painter.....	186 Clackamas street.
176	Harley Davis.....	Hoseman.....	23	Miner.....	261 Grand avenue, North.
177	A. M. Kreps.....	Hoseman.....	27	Laborer.....	1594 Hanen street.
178	Wm. A. Sears.....	Stoker.....	39	Machine man.....	424 Mildred avenue.

No. of alarms responded to, 59; Bell, 45; telephone, 14. Hours in service, 71:35.

Appointments—C. F. Neale, January 9, as captain; W. H. Hembree, January 9, as engineer; B. T. French, January 9; G. W. Dustin, January 9; J. P. Van Overn, January 10; F. McFarland, January 10; Harley Davis, January 10; J. T. Howlett, January 18; Emmett McCann, February 15; A. M. Kreps, June 6; Wm. A. Sears, October 31, as stoker; A. W. Wefel, acting lieutenant, January 11; A. W. Wefel, as lieutenant, June 6.

Transfers—F. J. McFarland to Engine Co. No. 7, February 13; C. F. Neale, captain, from Truck Co. No. 5, January 9; W. H. Hembree, engineer, from Engine Co. No. 3, January 9; B. T. French, from Hose Co. No. 2, January 9; G. W. Dustin, from Chemical Co. No. 3, January 9; A. W. Wefel, acting lieutenant, from Engine Co. No. 7, January 11.

J. P. Van Overn, January 18; G. W. Dustin, May 27, 1908.

Removal—Emmett McCann removed from Fire Department as stoker, August 11.

Inventory—Apparatus, 1 second-class Metropolitan engine, 1 hose wagon; hose, 2,000 feet 2½-inch Victor, 300 feet 1½-inch Bowers; horses, 5; harness, 1 double set, 1 triple set.

ANNUAL REPORT OF ENGINE CO. NO. 14 FOR THE YEAR ENDING DECEMBER 31, 1908
Location 1027 Union Avenue, North

Badge.	Name.	Position.	Age.	Occupation.	Residence.
111	W. C. Morrison.....	Captain	41	Teamster	1061 East Sixth, North.
163	J. T. Patterson	Engineer	31	Engineer	988 Garfield avenue.
162	W. E. Jaques.....	Engine driver	29	Teamster	416 Mildred avenue.
164	Charles Reznor	Hose driver	41	Teamster	1014 Union avenue.
181	Arthur Heiser	Stoker	28	Railroad fireman.....	323 Wheeler street.
165	W. A. Smith.....	Hoseman	30	Schoolteacher	615 University avenue.
112	A. O. McKenzie.....	Hoseman	42	Barber	410 Browns street.
182	Alax Stinson	Hoseman	29	Carpenter.....	510 Ainsworth avenue.
	Wesley H. Benedict.....	Hoseman	..	Teamster	870 East Main.

No. of alarms responded to, 23; Bell, 4; telephone, 17; still 2. Hours in service, 38:19.
 Appointments—Percy Dibble, January 8; W. E. Jaques, January 10; A. O. McKenzie, January 10; Roy Geer, January 11; G. W. Allen, January 11; G. H. Hill, February 14; John T. Patterson, March 2; W. A. Smith, August 1; Samuel Seal, June 11; Fenlon McCause, June 20; Arthur Heiser, July 15; Wesley H. Benedict, December 16.
 Transfers—Roy Geer, February 14, to Truck 4; George Allen, March 2, to Engine 7; G. H. Hill, June 11, to Engine 7; W. A. Ezard, May 19, from fire boat; W. A. Ezard, to Truck 5, June 30; Alax Stinson, from Truck 5, June 30; Fenlon McCause, to fireboat, July 15.
 Resignations—Samuel Seal, June 17; A. O. McKenzie, December 2.
 Inventory—Apparatus, 1 Metropolitan engine, 1 combination hose wagon, 1 heater; hose, 200 feet 1-inch chemical, 1,940 feet 2½-inch cotton; horses, 4; harness, 2 sets double.

ANNUAL REPORT OF ENGINE CO. NO. 15 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 590 Spring Street

Badge.	Name.	Position.	Age.	Occupation.	Residence.
122	W. R. Kerrigan.....	Captain	45	Stonecutter	590 Spring street.
20	Edward McDonald.....	Acting lieutenant	35	Collarmaker	590 Spring street.
126	C. O. Williams	Engineer	40	Engineer	590 Spring street.
123	W. A. Wilson.....	Driver	28	Engineer	590 Spring street.
128	H. B. Hatcher.....	Driver	36	Teamster	590 Spring street.
183	John N. Jepson.....	Hoseman	30	Motorman	590 Spring street.
124	Chas. J. Parmenter.....	Hoseman	23	Fireman	590 Spring street.
184	A. G. Wohlrahe.....	Acting stoker	43	Engineer	590 Spring street.

No. of alarms responded to, 8; Bell, 1; telephone, 4; still 3. Hours in service, 21:00.
 Appointments—H. B. Hatcher, April 8; John N. Jepson, April 8; Chas. J. Parmenter, April 8; E. C. Rossman, July 18.
 Transfers—W. R. Kerrigan, from Chemical 2 to Engine 15, April 8; Edward McDonald, from Truck No. 1 to Engine 15, April 8; W. A. Wilson, from Hose 6 to Engine 15, April 11; C. O. Williams, from Engine 3 to Engine 15, July 17.
 Resignation—E. C. Rossman, July 18.
 Inventory—Apparatus, 1 third-class Metropolitan engine, 1 double 40-gallon combination hose wagon; hose, 2,000 feet 2½-inch, 200 feet chemical, 4-inch; horses, 6; harness, 2 sets triple.

ANNUAL REPORT OF TRUCK CO. NO. 1, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 168 Fourth Street.

Badge	Name.	Position.	Age	Occupation.	Residence.
100	Edward Grenfell	Captain	26	Fireman	168 Fourth street.
101	Guy H. Parmenter	Lieutenant	27	Millman	206 North Sixteenth street.
102	Wm. F. Harrmann	Driver	36	Teamster	231 Fifth street.
229	A. H. Ulfiler	Ladderman	23	Gasoline engineer	168 Fourth street.
107	Winfred H. Ring	Ladderman	27	Farmer	168 Fourth street.
104	W. A. West	Ladderman	22	Fireman	168 Fourth street.
103	Thomas Gavin	Ladderman	33	Wireman	168 Fourth street.
108	Holger Christofferson	Ladderman	22	Laborer	168 Fourth street.
106	James McFarlane	Ladderman	24	Carpenter	168 Fourth street.
228	Emera J. Craig	Ladderman	25	Teamster	86½ Union avenue.

No. of alarms responded to, 199; Bell, 87; telephone, 107; still, 5. Hours in service, 148:34.
 Appointments—E. T. Rabior, January 8; Thomas Gavin, April 8; James McFarlane, July 1; Emera J. Craig, October 8; F. Dowell appointed battalion chief March 31; Edward Grenfell, appointed captain Truck Co. No. 1, March 31; Guy H. Parmenter appointed lieutenant Truck Co. No. 1, June 6.
 Transfers—Harry J. Beck to operator, January 15; Guy H. Parmenter, from Truck Co. No. 3 to Truck Co. No. 1, January 17; W. A. West, from Engine Co. No. 6 to Truck Co. No. 1, April 2; Edward McDonald, from Truck Co. No. 1 to Engine 15, April 8; Gibson Montague, from Truck Co. No. 1 to lieutenant Engine Co. No. 4, June 6; Holger Christofferson, from Truck Co. No. 2 to Truck Co. No. 1.
 Resignations—E. T. Rabior, July 1; Colyer T. Potter, October 8.
 Accident at Fire—Edward Grenfell, hand cut on glass July 3.
 Inventory—Apparatus, 1 Hays truck, first class; hose, 24 feet 2½-inch; horses, 3; harness, 1 triple set.

ANNUAL REPORT OF TRUCK CO. NO. 2 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 368 Fourth Street.

Badge	Name.	Position.	Age	Occupation.	Residence.
120	R. Canuto	Captain	33	Clerk	366½ Fourth street.
121	E. L. Johnson	Lieutenant	26	Teamster	368 Fourth street.
125	W. J. Taggart	Driver	36	Teamster	368 Fourth street.
127	P. W. Winkelbleck	Ladderman	34	Teamster	368 Fourth street.
123	H. F. Yandle	Ladderman	23	Donkey engineer	345½ First street.
124	Roy Geer	Ladderman	22	Teamster	368 Fourth street.
122	R. I. Voss	Ladderman	24	Mill worker	494 East Seventeenth.
126	R. G. Voss	Ladderman	33	Chainman	368 Fourth street.

No. of alarms responded to, 157; Bell, 90; telephone 63; still, 4. Hours in service, 111:27.
 Appointments—Frank Murphy, January 8; Ralph Adams, January 9; Holgar Christofferson, January 10; H. F. Yandle, January 10.
 Transfers—Roy Geer, from Engine 14, February 14; R. I. Voss, from fire boat, March 6; R. J. Williams, lieutenant, to captain Engine 10, April 22; Ralph G. Voss, from Hose 4, May 12; E. L. Johnson, lieutenant, from Engine 4, June 6; Holgar Christofferson to Truck 1, June 6.
 Resignation—Ralph Adams, February 14.
 Removal—Frank Murphy, February 26.
 Inventory—Apparatus, 1 third-class Hays truck; hose, 12 feet 2½-inch; horses, 3; harness, 1 3-horse hitch.

ANNUAL REPORT OF TRUCK CO. NO. 3 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 511 Glisan street.

Badge.	Name.	Position.	Age.	Occupation.	Residence.
130	Z. S. Elliott.....	Captain	43	Porter	126 North Fifteenth street.
136	Lloyd R. Lambert.....	Acting Lieutenant	24	Woodsmen	490 Glisan street.
132	J. Haines	Driver	31	Teamster	471 Flanders street.
131	Charley Abbott	Truckman	24	Laborer	511 Glisan street.
133	Guy Stabler	Truckman	25	Teamster	146 Eleventh street.
134	Charles Haberland	Truckman	34	Bridge Carpenter	511 Glisan street.
135	R. E. Beery	Truckman	24	Railroad brakeman.....	511 Glisan street.
137	Peter Jepson	Truckman	30	Stone mason	511 Glisan street.

No. of alarms responded to, 158; Bell, 72; telephone, 83; still, 3. Hours in service, 113:47.
 Appointments—Guy Stabler, January 11; R. E. Beery, January 17; Peter Jepson, July 31.
 Transfer—Guy H. Parmenter to Truck No. 1, January 17.
 Resignation—Edwin P. Siestrum, July 31.
 Inventory—Apparatus, 1 Champion chemical combination, first size, hook and ladder truck; hose, 250 feet
 1-inch rubber, chemical; Horses, 3; harness, 1 triple set.

ANNUAL REPORT OF TRUCK CO. NO. 4 FOR THE YEAR ENDING DECEMBER 31, 1908

Badge.	Name.	Position.	Age.	Occupation.	Residence.
140	Thos. J. Mountain.....	Captain	54	Teamster	1095 East Morrison street.
141	R. Gee	Acting lieutenant	46	Carpenter	13 East Seventh street.
142	G. A. Tennent	Driver	29	Teamster	30 East Third street.
143	D. D. Stokes	Truckman	25	Carpenter	42 East Third street.
144	Joe O. Dengel	Truckman	25	Farmer	42 East Third street.
145	Frank L. Schlatter.....	Truckman	23	Hatter	42 East Third street.
146	Walt H. Knowlton	Truckman	25	Clerk	372½ East Oak street.
147	Thos. H. Cunniff.....	Truckman	29	Tanner	42 East Third street.

No. of alarms responded to, 103; Bell, 64; telephone, 30; still, 9. Hours in service, 94.
 Appointments—Thos. H. Cunniff, January 11; Walt H. Knowlton, January 11; Frank L. Schlatter, January, 8.
 Transfers—Joe O. Dengel, from Engine 6, January, 9; Jacob Rickers, from Truck No. 4 to Engine 8, January 9.
 Accident at Fire—Lieutenant Gee hurt at Box 231, May 28, 11:24 P. M., by being thrown off ladder.
 Inventory—Apparatus, 1 fourth-class Hayes truck; hose, 12½ feet 2½-inch; horses, 3; harness, 1 3-horse hitch.

ANNUAL REPORT OF TRUCK CO. NO. 5 FOR THE YEAR ENDING DECEMBER 31, 1908

Badge.	Name.	Position.	Age.	Occupation.	Residence.
150	W. M. Smith	Captain	36	Painter	1031 Mallory avenue.
151	T. J. Coveney	Truckman	31	Longshoreman	643 Borthwick street.
152	T. J. Petersen	Driver	47	Teamster	313 Eugene street.
163	J. H. Bateman	Truckman	35	Car repairer	293 Russell street.
164	J. Wynett	Truckman	25	Car man	287 Russell street.
157	Bernard Francois	Truckman	24	Machinist helper	287 Russell street.
156	J. F. Casey	Truckman	25	Iron molder	823 Mississippi avenue.
155	W. A. Ezard	Truckman	25	Weaver	956 E. Eighteenth, North.

No. of alarms responded to, 60; Bell, 23; telephone, 32; still 5. Hours in service, 54:29.

Appointments—J. F. Casey, January 10; Bernard Francois, January 10.

Transfers—Captain W. M. Smith from fire boat to Truck Co. No. 5, January 9; A. Stinson, from Truck

No. 5 to Engine Co. No. 14, June 30; W. A. Ezard, from Engine Co. No. 14 to Truck Co. No. 5, June 30;

J. Wynett, from Hose Co. No. 3 to Truck Co. No. 5, September 16.

Removal—C. E. Lindloff, September 15.

Inventory—Apparatus, 1 fourth-class Hayes truck; horses, 2; harness, 1 double set.

ANNUAL REPORT OF HOSE CO. NO. 1 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 69 Second Street, Between Oak and Pine

Badge.	Name.	Position.	Age.	Occupation.	Residence.
160	W. D. Heath	Captain	40	Fireman	917 First street.
161	E. Tooley	Lieutenant	40	Teamster	205 North Sixteenth street.
162	P. W. Howlett	Driver	25	Teamster	69 Second Street.
163	J. M. Welsh	Hoseman	26	Laborer	69 Second Street.
164	E. C. Lewis	Hoseman	30	Painter	310 Tenth street.
165	A. F. Howlett	Hoseman	28	Fireman	69 Second street.

No. of alarms responded to, 232; Bell, 106; telephone, 124; still, 2. Hours in service, 205:13.

Accident at Fire—Street car collided with hose carriage at Third and Pine streets, December 17, answering box 139, 10:19 A. M.

Inventory—Apparatus, 1 four-wheeled hose carriage; hose, 1,950 feet 2½-inch Keystone; horses, 2; harness, 1 double set.

ANNUAL REPORT OF HOSE CO. NO. 2 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 273 First Street

Badge.	Name.	Position.	Age.	Occupation.	Residence.
170	A. M. Crewse.	Captain	26	Clerk	805 First street.
171	F. A. Zellner	Lieutenant	29	Tanner	246 Caruthers street.
172	W. MacHugh	Driver	24	Teamster	273 First street.
173	M. R. Stark	Hoseman	25	Gasoline engineer	273 First street.
174	A. Miller	Hoseman	22	Teamster	273 First street.
175	J. S. Buhite	Hoseman	28	Fireman	273 First street.

No. of alarms responded to, 176: Bell, 95; telephone, 67; still, 14. Hours in service, 136:43.
 Appointments—W. MacHugh, January 9; A. M. Crewse, captain, March 31; A. Miller, March 31.
 Transfers—B. F. French to Engine No. 13, January 9; A. M. Crewse, from Engine No. 10, March 31;
 Captain J. W. Stevens to battalion chief, March 31; M. R. Stark to Chemical 2, March 31; R. J. Abbott to
 Chemical No. 2, April 30; M. R. Stark to Hose No. 2, April 30; F. J. Lust to Chemical No. 2, August 5;
 J. S. Buhite from Engine No. 12, August 5.
 Accidents at Fires—Captain A. M. Crewse, ankle and hip bruised, and Driver MacHugh, arm and leg in-
 jured by accident with street car No. 105 at Third and Jefferson streets, while answering telephone alarm
 November 28, 3:30 P. M.
 Inventory—Apparatus, 1 4-wheeled hose wagon, 1 chief's buggy; hose, 2,250 feet 2½-inch Keystone, 300
 feet 1½-inch Keystone, and 1,000 feet 2½-inch Victor jacket; horses, 3; harness, 1 double set, 1 single set.

ANNUAL REPORT OF HOSE CO. NO. 3 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 367 East Seventh Street

Badge.	Name.	Position.	Age.	Occupation.	Residence.
180	H. M. Burt	Captain	46	Fireman	381 East Eighth street.
181	E. L. Sinex	Hoseman	26	Seaman	363 East Seventh street.
182	Fred C. Schmidtko	Driver	22	Teamster	367 East Seventh street.
183	D. A. Whitley	Hoseman	23	Teamster	367 East Seventh street.
184	Walter S. Nash	Hoseman	27	Grocer clerk	367 East Seventh street.
185	F. J. Lust	Hoseman	25	Carpenter	367 East Seventh street.

No. of alarms responded to, 80: Bell, 55; telephone, 20; still, 5. Hours in service, 84:51.
 Appointments—E. L. Sinex, January 10; D. A. Whitley, January 10; Joe E. Wynett, January 10; Walter
 S. Nash, September 16.
 Transfers—M. V. Brown to fire boat, January 10; F. H. Rittenour, from Chemical 2, March 31; Joe E.
 Wynett, to Truck 5, September 16; F. H. Rittenour, to Chemical 2, December 31; F. J. Lust, from Chemical
 2, December 31.
 Resignation—G. W. Griffin, March 26.
 Inventory—Apparatus, 1 4-wheel hose wagon; hose, 2,000 feet 2½-inch, Keystone, wax-treated, cotton;
 300 feet 1½-inch Bowers, cotton; horses, 2; harness, 1 set double.

ANNUAL REPORT OF HOSE CO. NO. 4 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 1660 East Thirteenth Street, Sellwood

Badg.	Name.	Position.	Age	Occupation.	Residence.
21	Geo. W. Stokes	Captain	42	Fireman	613 Tenino avenue.
27	J. T. Emert	Driver	30	Carpenter	571 Tenino avenue.
...	Clarence D. Shane	Hoseman	29	Laborer	1741 East Eleventh street.
23	Verne V. Eyston	Hoseman	29	Carpenter	1660 East Thirteenth street.
25	Gus V. Barks	Hoseman	29	Logger	691 Milwaukee street.
26	Herman A. Bates	Hoseman	26	Sawyer	1734 East Thirteenth street.
22	John Schneider	Hoseman	34	Tanner	

No. of alarms responded to, 19: Bell, 2; telephone, 10; still, 7. Hours in service, 16:54.
Appointment—John Schneider, May 17.
Transfers—Herman A. Bates from Engine 11, February 13; Ralph G. Voss to Truck 2, May 12.
Inventory—Apparatus, 1 Amoskeag 4-wheel hose reel; hose, 1,728 feet 24-inch Keystone; horses, 3; harness, 1 double set, Berry collars.

ANNUAL REPORT OF HOSE CO. NO. 6 FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 329 North Twentieth Street

Badg.	Name.	Position.	Age	Occupation.	Residence.
190	Harry A. Pollock	Captain	30	Brakeman	327 North Twentieth.
191	W. C. Spickelmier	Lieutenant	29	Carpenter	329 North Twentieth.
192	John W. Martin	Driver	29	Teamster	6534 Quimby.
193	Samuel L. Holcomb	Hoseman	22	Painter	329 North Twentieth.
194	H. Van Lorn	Hoseman	30	Clerk	329 North Twentieth.
195	George G. Chute	Hoseman	25	Painter	329 North Twentieth.

No. of alarms responded to, 69: Bell, 31; telephone 35; still, 3. Hours in service, 59:41.
Appointments—W. A. Wilson, January 9; Samuel L. Holcomb, January 9; George G. Chute, April 12.
Transfer—W. A. Wilson to Engine Co. No. 15, April 11.
Resignation—James G. Brann, January 5.
Accident at Fire—Samuel L. Holcomb, heel sprained at fire June 1, at Box 49.
Inventory—Apparatus, 1 hose wagon, 1 extra hose wagon, stored Engine No. 2; hose, 300 feet 14-inch, 2,000 feet 24-inch; horses, 3; harness, 1 double set; hose team and tag horse from Engine Co. No. 3.

ANNUAL REPORT OF CHEMICAL CO. NO. 1 FOR THE YEAR ENDING DECEMBER 31, 1908
 Location, 69 Second Street, Between Oak and Pine

Badge.	Name.	Position.	Age.	Occupation.	Residence.
11	H. E. Hawkins	Captain	28	Fireman	228 Hall street.
12	W. H. Green	Driver	32	Salesman	228 Seventh street.
13	William E. Shell	Pipeman	30	Engineer	69 Second street.

No. of alarms responded to, 174; Bell, 75; telephone, 97; still, 2. Hours in service, 122:55.
 Accidents at Fires—W. E. Shell, pipeman, hand burned at Box 17, March 31; W. E. Shell, wrist sprained in collision of street car and chemical at Third and Oak streets, July 6—telephone alarm Fourth and Washington streets, 3:05 P. M.; Captain Hawkins and Driver Green slightly injured when street car collided with chemical at Third and Pine streets, September 5, answering Box 17, 1:33 A. M.; W. H. Green, driver, three teeth knocked out at Box 63, December 5, 9:35 P. M.
 Inventory—Apparatus, 1 double 80-gallon Champion chemical; hose, 250 feet 1-inch rubber; horses, 2; harness, 1 double set.

ANNUAL REPORT OF CHEMICAL ENGINE CO. NO. 2 FOR YEAR ENDING DECEMBER 31, 1908
 Location, 273 First Street.

Badge.	Name.	Position.	Age.	Occupation.	Residence.
14	E. V. Hale	Captain	27	Fireman	806 Front street.
15	John McLeod	Driver	38	Teamster	273 First street.
16	F. H. Rittenour	Pipeman	29	Clerk	225 Glenn avenue.

No. of alarms responded to, 184; Bell, 104; telephone, 65; still 15. Hours in service, 92.
 Transfers—F. H. Rittenour to Hose 3, March 31; M. R. Stark from Hose 2, March 31; Captain W. R. Kerrigan to captain Engine 15, April 7; Captain E. V. Hale from captain Engine 10, April 22; M. R. Stark to Hose 2, April 30; R. J. Abbott from Hose 2, April 30; R. J. Abbott to switchboard operator, August 5; F. J. Lust from Hose 2, August 5; F. J. Lust to Hose 3, December 31; F. H. Rittenour from Hose 3, December 31.
 Inventory—Apparatus, 1 Champion double 60-gal. chemical; hose, 250 feet 1-inch rubber; horses, 2; harness, 1 double set.

ANNUAL REPORT OF CHEMICAL CO. NO. 4, FOR THE YEAR ENDING DECEMBER 31, 1908
Location, 859 Mississippi Avenue

Badge.	Name.	Position.	Age.	Occupation.	Residence.
17	J. G. Stevens	Captain	41	Stage mechanic	862½ Albina avenue.
18	L. P. Brown	Driver	54	Teamster	1209 Borthwick street.
18	Thos. H. Cooper	Pipeman	25	Molder	902 Albina avenue.

No. of alarms responded to, 32; Bell, 17; telephone, 12; still, 3. Hours in service, 33:44.
Appointment—Thos. H. Cooper, January 11.
Transfers—J. G. Stevens, from Chemical No. 3, January 9; L. P. Brown, from Engine No. 8, January 9.
Inventory—Apparatus, 1 double 60-gallon Champion chemical engine; hose, 200 feet chemical; horses, 2; harness, 1 double set.

HYDRANTS

Northern District.

Front and Morrison streets, northeast corner, 6-inch supply.
Front and Alder, southeast corner, 6-inch supply.
Front and Alder, northwest corner, 6-inch supply.
Front and Washington, southeast, 6-inch supply.
Front and Washington, northwest, 6-inch supply.
Front and Stark, southwest corner, 6-inch supply.
Front and Stark, northeast corner, 6-inch supply.
Front and Oak, southeast corner, 6-inch supply.
Front and Oak, northwest corner, 6-inch supply.
Front and Pine, northwest corner, 6-inch supply.
Front and Pine, northeast corner, 6-inch supply.
Front and Ash, southeast corner, 6-inch supply.
Front and Ash, northeast corner, 6-inch supply.
Front, between Ankeny and Ash, east side, 6-inch supply.
Front and Ankeny, southwest corner, 6-inch supply.
Front and Burnside, southwest corner, 6-inch supply.
Front and Burnside, northeast corner, 6-inch supply.
Front and Couch, southwest corner, 4-inch supply.
Front and Couch, northwest corner, 6-inch supply.
Front and Couch, northeast corner, 6-inch supply.
Front and Davis, northwest corner, 6-inch supply.
Front and Davis, northeast corner, 6-inch supply.
Front and Everett, northeast corner, 6-inch supply.
Front and Everett, northwest corner, 6-inch supply.
Front and Flanders, northeast corner, 6-inch supply.
Front and Flanders, southeast corner, 6-inch supply.
Front, between Glisan and Hoyt, west side, 3-inch supply.
Front and Glisan, southwest corner, 6-inch supply.
Front and Hoyt, southwest, 4-inch supply.
Front and Irving, northwest corner, 6-inch supply.
Front and Johnson, northwest corner, 3-inch supply.
Front and Kearney, northwest corner, 6-inch supply.
Front, between Kearney and Lovejoy, west side, 4-inch supply.
Front and Lovejoy, southwest corner, 6-inch supply.
Front and Lovejoy, northwest corner, 6-inch supply.
Front and Marshall, southwest corner, 6-inch supply.
Front and Marshall, northwest corner, 6-inch supply.
Front and Northrup, southwest corner, 6-inch supply.
Front and Northrup, northwest corner, 3-inch supply.
Front and Overton, southwest corner, 6-inch supply.
Front and Pettygrove, southwest corner, 3-inch supply.
Front and Quimby, northwest corner, 6-inch supply.

HYDRANTS—Continued

Northern District

Front and Raleigh, southwest corner, 6-inch supply.
 Front and Savier, northwest corner, 6-inch supply.
 Front and Thurman, southwest corner, 6-inch supply.
 Front and Upshur, northwest corner, 6-inch supply.
 Front and Roosevelt, southwest corner, 6-inch supply.
 Front, between Roosevelt and Hull, west side, 6-inch supply.
 Front and Hull, southwest corner, 6-inch supply.
 Front and Charles, southwest corner, 6-inch supply.
 Front and John, southwest corner, 6-inch supply.
 Front and Colton, southwest corner, 6-inch supply.
 Front and Rock, southwest corner, 6-inch supply.
 North Pacific Mill Yard, 8 hydrants, 3-inch supply; 1 has 6-inch supply.
 First and Morrison, northeast corner, 4-inch supply.
 First and Washington, northeast corner, 6-inch supply.
 First and Oak, northwest corner, 6-inch supply.
 First and Pine, northwest corner, 4-inch supply.
 First and Ankeny, northwest corner, 6-inch supply.
 First and Burnside, southeast corner, 6-inch supply.
 First and Couch, southeast corner, 4-inch supply.
 First and Everett, southwest corner, 6-inch supply.
 First and Everett, northwest corner, 6-inch supply.
 First and Flanders, northeast corner, 6-inch supply.
 Second and Morrison, northeast corner, 6-inch supply.
 Second and Morrison, northwest corner, 6-inch supply.
 Second and Alder, southwest corner, 6-inch supply.
 Second and Alder, northwest corner, 6-inch supply.
 Second and Washington, southwest corner, 6-inch supply.
 Second and Washington, northwest corner, 6-inch supply.
 Second and Washington, northeast corner, 6-inch supply.
 Second and Stark, southwest corner, 6-inch supply.
 Second and Stark, northwest corner, 6-inch supply.
 Second and Oak, southwest corner, 6-inch supply.
 Second and Oak, northwest corner, 6-inch supply.
 Second and Pine, southwest corner, 6-inch supply.
 Second and Pine, northwest corner, 6-inch supply.
 Second and Ash, southwest corner, 4-inch supply.
 Second and Ash, southwest corner, 6-inch supply.
 Second and Ash, northwest corner, 6-inch supply.
 Second, between Ash and Ankeny, east side, 4-inch supply.
 Second and Ankeny, southwest corner, 6-inch supply.
 Second and Ankeny, northwest corner, 6-inch supply.
 Second and Burnside, southwest corner, 6-inch supply.

HYDRANTS—Continued

Northern District

Second and Burnside, northwest corner, 6-inch supply.
 Second and Couch, southwest corner, 6-inch supply.
 Second and Couch, northwest corner, 6-inch supply.
 Second and Davis, southwest corner, 3-inch supply.
 Second and Davis, southwest corner, 6-inch supply.
 Second and Davis, northwest corner, 6-inch supply.
 Second and Everett, southwest corner, 6-inch supply.
 Second and Everett, northwest corner, 6-inch supply.
 Second and Flanders, southwest corner, 6-inch supply.
 Second and Flanders, northwest corner, 6-inch supply.
 Second and Glisan, southeast corner, 6-inch supply.
 Second and Glisan, southwest corner, 6-inch supply.
 Third and Alder, northwest corner, 3-inch supply.
 Third and Washington, northeast corner, 6-inch supply.
 Third and Stark, southwest corner, 3-inch supply.
 Third and Stark, northeast corner, 6-inch supply.
 Third and Oak, southeast corner, 6-inch supply.
 Third and Oak, southwest corner, 6-inch supply.
 Third and Pine, southwest corner, 3-inch supply.
 Third and Ankeny, northwest corner, 3-inch supply.
 Third and Burnside, southwest corner, 3-inch supply.
 Third and Couch, southwest corner, 3-inch supply.
 Third and Davis, southwest corner, 3-inch supply.
 Third and Everett, southwest corner, 3-inch supply.
 Third and Flanders, southwest corner, 3-inch supply.
 Third and Glisan, northwest corner, 6-inch supply.
 Third and Hoyt, northwest corner, 6-inch supply.
 Fourth and Morrison, northeast corner, 4-inch supply.
 Fourth and Alder, southeast corner, 4-inch supply.
 Fourth and Washington, northeast corner, 4-inch supply.
 Fourth and Stark, southwest corner, 6-inch supply.
 Fourth and Oak, southwest corner, 6-inch supply.
 Fourth and Oak, southeast corner, 6-inch supply.
 Fourth and Pine, southwest corner, 6-inch supply.
 Fourth and Pine, southeast corner, 6-inch supply.
 Fourth and Couch, northeast corner, 4-inch supply.
 Fourth and Davis, southwest corner, 3-inch supply.
 Fourth and Davis, southwest corner, 6-inch supply.
 Fourth and Everett, northeast corner, 6-inch supply.
 Fourth and Glisan, northeast corner, 4-inch supply.
 Fourth and Glisan, northwest corner, 6-inch supply.
 Fourth and Hoyt, northeast corner, 6-inch supply.

HYDRANTS—Continued

Northern District

Fifth and Alder, northeast corner, 4-inch supply.
 Fifth and Alder, northwest corner, 6-inch supply.
 Fifth and Washington, southwest corner, 4-inch supply.
 Fifth and Washington, northeast corner, 6-inch supply.
 Fifth and Stark, northwest corner, 6-inch supply.
 Fifth and Oak, southwest corner, 6-inch supply.
 Fifth and Oak, northeast corner, 4-inch supply.
 Fifth and Pine, southwest corner, 6-inch supply.
 Fifth and Ankeny, southeast corner, 6-inch supply.
 Fifth and Ankeny, southwest corner, 6-inch supply.
 • Fifth and Burnside, southwest corner, 6-inch supply.
 Fifth and Couch, southwest corner, 6-inch supply.
 Fifth and Couch, southeast corner, 3-inch supply.
 Fifth and Davis, southwest corner, 6-inch supply.
 Fifth and Everett, southeast corner, 6-inch supply.
 Fifth and Flanders, northwest corner, 6-inch supply.
 Fifth and Hoyt, southeast corner, 6-inch supply.
 Sixth and Alder, northeast corner, 4-inch supply.
 Sixth and Washington, southwest corner, 4-inch supply.
 Sixth and Stark, southwest corner, 6-inch supply.
 Sixth and Stark, southwest corner, 3-inch supply.
 Sixth and Oak, northwest corner, 6-inch supply.
 Sixth and Pine, southwest corner, 3-inch supply.
 Sixth and Couch, northwest corner, 3-inch supply.
 Sixth and Glisan, northwest corner, 3-inch supply.
 Sixth and Irving, northwest corner, 3-inch supply.
 Seventh and Alder, northwest corner, 6-inch supply.
 Seventh and Washington, southwest corner, 6-inch supply.
 Seventh and Washington, northwest corner, 6-inch supply.
 Seventh and Stark, northwest corner, 6-inch supply.
 Seventh and Oak, northwest corner, 6-inch supply.
 Seventh and Oak, northeast corner, 6-inch supply.
 Seventh and Ankeny, northwest corner, 6-inch supply.
 Seventh and Burnside, northwest corner, 6-inch supply.
 Seventh and Couch, northwest corner, 6-inch supply.
 Seventh and Davis, northwest corner, 6-inch supply.
 Seventh and Everett, northwest corner, 6-inch supply.
 Seventh and Flanders, northwest corner, 6-inch supply.
 Seventh and Flanders, northwest corner, 4-inch supply.
 Seventh and Glisan, northwest corner, 6-inch supply.
 Seventh and Hoyt, southwest corner, 6-inch supply.
 Seventh and Hoyt, northwest corner, 4-inch supply.

HYDRANTS—Continued

Northern District

Seventh and Johnson, southeast corner, 3-inch supply.
 Park and Morrison, northeast corner, 6-inch supply.
 Park and Alder, southeast corner, 6-inch supply.
 Park and Alder, northeast corner, 4-inch supply.
 Park and Washington, northeast corner, 6-inch supply.
 Park and Stark, southeast corner, 6-inch supply.
 Park and Stark, southwest corner, 6-inch supply.
 Park and Burnside, southwest corner, 6-inch supply.
 Park and Davis, southwest corner, 3-inch supply.
 Park and Glisan, northeast corner, 6-inch supply.
 West Park and Morrison, northwest corner, 4-inch supply.
 West Park and Alder, northeast corner, 6-inch supply.
 West Park and Washington, southwest corner, 4-inch supply.
 Ninth and Burnside, northeast corner, 6-inch supply.
 Ninth and Hoyt, northeast corner, 4-inch supply.
 Tenth and Morrison, northwest corner, 4-inch supply.
 Tenth and Alder, southwest corner, 6-inch supply.
 Tenth and Washington, northwest corner, 6-inch supply.
 Tenth and Stark, southwest corner, 6-inch supply.
 Tenth and Stark, northwest corner, 6-inch supply.
 Tenth and Burnside, southwest corner, 6-inch supply.
 Tenth and Davis, southwest corner, 6-inch supply.
 Tenth and Davis, northwest corner, 6-inch supply.
 Tenth and Everett, southwest corner, 6-inch supply.
 Tenth and Everett, northwest corner, 6-inch supply.
 Tenth and Flanders, southwest corner, 6-inch supply.
 Tenth and Flanders, northwest corner, 6-inch supply.
 Tenth and Glisan, southwest corner, 6-inch supply.
 Tenth and Glisan, northwest corner, 6-inch supply.
 Tenth and Irving, southwest corner, 6-inch supply.
 Tenth and Irving, northwest corner, 6-inch supply.
 Tenth and Johnson, southwest corner, 6-inch supply.
 Tenth and Johnson, northwest corner, 6-inch supply.
 Tenth and Kearney, southwest corner, 6-inch supply.
 Tenth and Kearney, northwest corner, 6-inch supply.
 Tenth and Lovejoy, southwest corner, 6-inch supply.
 Eleventh and Alder, northeast corner, 6-inch supply.
 Eleventh and Washington, southeast corner, 6-inch supply.
 Eleventh and Stark, southeast corner, 3-inch supply.
 Eleventh and Stark, northwest corner, 6-inch supply.
 Eleventh and Burnside, northwest corner, 6-inch supply.
 Eleventh and Davis, southwest corner, 6-inch supply.

HYDRANTS—Continued

Northern District

Eleventh and Everett, southeast corner, 3-inch supply.
 Eleventh and Flanders, northwest corner, 6-inch supply.
 Eleventh and Lovejoy, southeast corner, 6-inch supply.
 Twelfth and Morrison, northwest corner, 6-inch supply.
 Twelfth and Alder, northwest corner, 6-inch supply.
 Twelfth and Washington, northwest corner, 6-inch supply.
 Twelfth and Burnside, northeast corner, 6-inch supply.
 Twelfth and Couch, northeast corner, 6-inch supply.
 Twelfth and Davis, southeast corner, 3-inch supply.
 Twelfth and Davis, southwest corner, 6-inch supply.
 Twelfth and Everett, southeast corner, 6-inch supply.
 Twelfth and Flanders, northwest corner, 6-inch supply.
 Twelfth and Glisan, southeast corner, 6-inch supply.
 Twelfth and Hoyt, southeast corner, 6-inch supply.
 Twelfth and Irving, southeast corner, 6-inch supply.
 Twelfth and Johnson, southeast corner, 6-inch supply.
 Twelfth and Kearney, southeast corner, 6-inch supply.
 Twelfth and Lovejoy, southeast corner, 6-inch supply.
 Twelfth and Marshall, northwest corner, 6-inch supply.
 Twelfth and Northrup, southeast corner, 3-inch supply.
 Thirteenth and Morrison, northwest corner, 6-inch supply.
 Thirteenth and Alder, southeast corner, 6-inch supply.
 Thirteenth and Burnside, northwest corner, 6-inch supply.
 Thirteenth and Davis, southwest corner, 6-inch supply.
 Thirteenth and Davis, southeast corner, 6-inch supply.
 Thirteenth and Flanders, northwest corner, 6-inch supply.
 Thirteenth and Kearney, northwest corner, 6-inch supply.
 Thirteenth and Kearney, northeast corner, 6-inch supply.
 Thirteenth and Lovejoy, southwest corner, 6-inch supply.
 Thirteenth and Lovejoy, southeast corner, 6-inch supply.
 Thirteenth and Marshall, northeast corner, 6-inch supply.
 Thirteenth and Marshall, northwest corner, 6-inch supply.
 Fourteenth and Alder, southwest corner, 3-inch supply.
 Fourteenth and Alder, northwest corner, 6-inch supply.
 Fourteenth and Washington, northwest corner, 3-inch supply.
 Fourteenth and Washington, northwest corner, 6-inch supply.
 Fourteenth and Burnside, northwest corner, 6-inch supply.
 Fourteenth and Couch, southwest corner, 6-inch supply.
 Fourteenth and Davis, southwest corner, 4-inch supply.
 Fourteenth and Everett, southwest corner, 6-inch supply.
 Fourteenth and Flanders, southwest corner, 6-inch supply.
 Fourteenth and Glisan, southeast corner, 6-inch supply.

HYDRANTS—Continued

Northern District

Fourteenth and Hoyt, southeast corner, 6-inch supply.
 Fourteenth and Irving, southeast corner, 6-inch supply.
 Fourteenth and Johnson, southwest corner, 3-inch supply.
 Fourteenth and Johnson, southeast corner, 6-inch supply.
 Fourteenth and Kearney, southeast corner, 6-inch supply.
 Fourteenth and Lovejoy, southeast corner, 6-inch supply.
 Fourteenth and Marshall, southeast corner, 6-inch supply.
 Fourteenth and Northrup, southeast corner, 6-inch supply.
 Fourteenth and Overton, southwest corner, 3-inch supply.
 Fourteenth and Overton, southeast corner, 6-inch supply.
 Fourteenth and Pettygrove, southeast corner, 6-inch supply.
 Fourteenth and Quimby, southeast corner, 6-inch supply.
 Fourteenth and Quimby, southwest corner, 3-inch supply.
 Fourteenth and Raleigh, southeast corner, 6-inch supply.
 Fourteenth and Savier, southeast corner, 6-inch supply.
 Fourteenth and Savier, southwest corner, 3-inch supply.
 Fourteenth and Thurman, southwest corner, 6-inch supply.
 Lownsdale and Alder, southeast corner, 6-inch supply.
 Fifteenth and Burnside, northeast corner, 6-inch supply.
 Fifteenth and Davis, southwest corner, 4-inch supply.
 Fifteenth and Flanders, southeast corner, 3-inch supply.
 Fifteenth and Kearney, northwest corner, 6-inch supply.
 Fifteenth and Marshall, northwest corner, 6-inch supply.
 Fifteenth and Savier, northwest corner, 6-inch supply.
 Fifteenth and Thurman, southwest corner, 3-inch supply.
 Sixteenth and Washington, southeast corner, 6-inch supply.
 Sixteenth and Hoyt, northwest corner, 6-inch supply.
 Sixteenth and Kearney, southwest corner, 6-inch supply.
 Sixteenth and Northrup, southwest corner, 3-inch supply.
 Sixteenth and Pettygrove, northwest corner, 3-inch supply.
 Sixteenth and Savier, northwest corner, 4-inch supply.
 Seventeenth and Washington, northwest corner, 6-inch supply.
 Seventeenth and Davis, southwest corner, 3-inch supply.
 Seventeenth and Flanders, northwest corner, 6-inch supply.
 Seventeenth and Marshall, northwest corner, 3-inch supply.
 Seventeenth and Upshur, northwest corner, 6-inch supply.
 Eighteenth and Washington, northwest corner, 4-inch supply.
 Eighteenth and Everett, northwest corner, 3-inch supply.
 Eighteenth and Irving, northwest corner, 4-inch supply.
 Eighteenth and Kearney, northwest corner, 3-inch supply.
 Eighteenth and Overton, northeast corner, 3-inch supply.
 Eighteenth and Quimby, northeast corner, 3-inch supply.

HYDRANTS—Continued

Northern District

Eighteenth and Savier, northeast corner, 3-inch supply.
 Nineteenth and Washington, northeast corner, 3-inch supply.
 Nineteenth and Davis, southeast corner, 3-inch supply.
 Nineteenth and Flanders, southeast corner, 3-inch supply.
 Nineteenth and Hoyt, southeast corner, 6-inch supply.
 Nineteenth and Johnson, southeast corner, 3-inch supply.
 Nineteenth and Lovejoy, southeast corner, 3-inch supply.
 Nineteenth and Northrup, southeast corner, 3-inch supply.
 Nineteenth and Pettygrove, southeast corner, 3-inch supply.
 Nineteenth and Raleigh, southeast corner, 3-inch supply.
 Nineteenth and Thurman, northwest corner, 3-inch supply.
 Nineteenth and Upshur, southeast corner, 3-inch supply.
 Nineteenth and Vaughn, northeast corner, 3-inch supply.
 Nineteenth and Sherlock avenue, southeast corner, 3-inch supply.
 Trinity Lane and Couch, northeast corner, 6-inch supply.
 Trinity Lane and Everett, southwest corner, 6-inch supply.
 Twentieth and Washington, northeast corner, 3-inch supply.
 Twentieth and Everett, southeast corner, 4-inch supply.
 Twentieth and Irving, southeast corner, 3-inch supply.
 Twentieth and Kearney, southeast corner, 3-inch supply.
 Twentieth and Marshall, northeast corner, 3-inch supply.
 Twentieth and Quimby, northwest corner, 3-inch supply.
 Twentieth and Thurman, northwest corner, 3-inch supply.
 Twentieth and Roosevelt, northeast corner, 6-inch supply.
 Bet. Twentieth and Twenty-first on Johnson, north side, 4-inch supply.
 Twenty-first and Davis, southeast corner, 4-inch supply.
 Twenty-first and Everett, southeast corner, 4-inch supply.
 Twenty-first and Flanders, southeast corner, 4-inch supply.
 Twenty-first and Hoyt, southeast corner, 3-inch supply.
 Twenty-first and Johnson, southeast corner, 3-inch supply.
 Twenty-first and Kearney, southeast corner, 4-inch supply.
 Twenty-first and Marshall, southeast corner, 4-inch supply.
 Twenty-first and Northrup, northwest corner, 3-inch supply.
 Twenty-first and Pettygrove, southeast corner, 4-inch supply.
 Twenty-first and Quimby, northeast corner, 3-inch supply.
 Twenty-first and Savier, northwest corner, 3-inch supply.
 Twenty-first and Thurman, northeast corner, 4-inch supply.
 Twenty-first and Vaughn, southeast corner, 4-inch supply.
 Twenty-first and Roosevelt, southeast corner, 4-inch supply.
 Twenty-first and Reed, southeast corner, 4-inch supply.
 Twenty-second and Washington, northeast corner, 3-inch supply.
 Twenty-second and Everett, southeast corner, 3-inch supply.

HYDRANTS—Continued

Northern District

Twenty-second and Glisan, southeast corner, 3-inch supply.
 Twenty-second and Irving, southeast corner, 3-inch supply.
 Twenty-second and Lovejoy, southeast corner, 4-inch supply.
 Twenty-second and Northrup, southeast corner, 3-inch supply.
 Twenty-second and Pettygrove, southeast corner, 3-inch supply.
 Twenty-second and Savier, southeast corner, 3-inch supply.
 Twenty-second and Thurman, northeast corner, 3-inch supply.
 Twenty-second and Upshur, northeast corner, 3-inch supply.
 Twenty-second and Vaughn, northwest corner, 4-inch supply.
 Twenty-second and Wilson, northeast corner, 3-inch supply.
 Twenty-second and York, northeast corner, 3-inch supply.
 Twenty-second and Nicolai, southeast corner, 3-inch supply.
 Lucretia Place and Washington, northwest corner, 4-inch supply.
 Lucretia Place and Everett, southwest corner, 6-inch supply.
 Fairbanks and Nicolai, southeast corner, 6-inch supply.
 Twenty-third and Washington, northwest corner, 3-inch.
 Twenty-third and Flanders, southeast corner, 3-inch.
 Twenty-third and Glisan, southeast corner, 3-inch supply.
 Twenty-third and Hoyt, southeast corner, 3-inch supply.
 Twenty-third and Johnson, northeast corner, 4-inch supply.
 Twenty-third and Lovejoy, northeast corner, 3-inch supply.
 Twenty-third and Northrup, northwest corner, 3-inch supply.
 Twenty-third and Quimby, northeast corner, 3-inch supply.
 Twenty-third and Savier, northwest corner, 3-inch supply.
 Twenty-third and Vaughn, northwest corner, 4-inch supply.
 Twenty-third and Roosevelt, northwest corner, 6-inch supply.
 Twenty-third and Nicolai, southeast corner, 6-inch supply.
 Giles avenue and Nicolai, southeast corner, 6-inch supply.
 Twenty-fourth and Washington, northwest corner, 3-inch supply.
 Twenty-fourth and Flanders, northeast corner, 3-inch supply.
 Twenty-fourth and Glisan, northeast corner, 6-inch supply.
 Twenty-fourth and Hoyt, northeast corner, 6-inch supply.
 Twenty-fourth and Irving, northeast corner, 6-inch supply.
 Twenty-fourth and Johnson, northeast corner, 3-inch supply.
 Twenty-fourth and Kearney, southwest corner, 3-inch supply.
 Twenty-fourth and Lovejoy, northeast corner, 3-inch supply.
 Twenty-fourth and Northrup, northwest corner, 3-inch supply.
 Twenty-fourth and Overton, northwest corner, 6-inch supply.
 Twenty-fourth and Pettygrove, northeast corner, 3-inch supply.
 Twenty-fourth and Savier, northeast corner, 3-inch supply.
 Twenty-fourth and Roosevelt, northeast corner, 6-inch supply.
 Twenty-fourth and Nicolai, southeast corner, 4-inch supply.

HYDRANTS—Continued

Northern District

Vaughn and Dover, northeast corner, 4-inch supply.
 Cornell and Hoyt, St. Vincent's Hospital, 4-inch supply.
 Cornell and St. Vincent's Hospital, east side, 6-inch supply.
 Two hydrants on Melinda ave. at St. Vincent's Hospital, 4-inch supply.
 Twenty-fifth and Johnson, northeast corner, 3-inch supply.
 Twenty-fifth and Kearney, northeast corner, 4-inch supply.
 Twenty-fifth and Marshall, northeast corner, 4-inch supply.
 Twenty-fifth and Northrup, northeast corner, 3-inch supply.
 Twenty-fifth and Pettygrove, northeast corner, 6-inch supply.
 Twenty-fifth and Savier, northeast corner, 3-inch supply.
 Twenty-fifth and Thurman, northeast corner, 6-inch supply.
 Twenty-fifth and Upshur, northwest corner, 6-inch supply.
 Twenty-fifth and Vaughn, northeast corner, 4-inch supply.
 Twenty-fifth and Wilson, northeast corner, 4-inch supply.
 Twenty-fifth and Nicolai, southwest corner, 6-inch supply.
 Lake, 200 feet north of Nicolai, 4-inch supply.
 Foot of Lake, 3-inch supply.
 Vaughn, bet. Twenty-fifth and Twenty-sixth, north side, 4-inch supply.
 Twenty-sixth and Marshall, northeast corner, 6-inch supply.
 Twenty-sixth and Northrup, northeast corner, 6-inch supply.
 Twenty-sixth and Overton, southeast corner, 6-inch supply.
 Twenty-sixth and Savier, northeast corner, 4-inch supply.
 Twenty-sixth and Upshur, northeast corner, 6-inch supply.
 Twenty-sixth and Vaughn, northeast corner, 4-inch supply.
 Twenty-sixth and Nicolai, southeast corner, 6-inch supply.
 Twenty-seventh and Savier, northwest corner, 3-inch supply.
 Twenty-seventh and Thurman, northeast corner, 3-inch supply.
 Twenty-seventh and Upshur, northeast corner, 6-inch supply.
 Twenty-ninth and Raleigh, northwest corner, 4-inch supply.
 Twenty-ninth and Thurman, northeast corner, 6-inch supply.
 Thirty-second and Thurman, northwest corner, 4-inch supply.
 Thirty-second and Franklin, southwest corner, 4-inch supply.
 Rugby and Thurman, northwest corner, 4-inch supply.

FAIR GROUNDS HYDRANTS

Head Vaughn, near Twenty-sixth, 6-inch supply.
 Foreign Building, southwest corner, 6-inch supply.
 Center Foreign Building, west side, 4-inch supply.
 Foreign Building, northwest corner, 4-inch supply.
 Foreign Building, center, east side, 4-inch supply.
 Foreign Building, northeast corner, 4-inch supply.
 Foreign Building, northwest corner, 4-inch supply.
 Agriculture Building, northwest corner, 6-inch supply.
 Agriculture Building, southwest corner, 4-inch supply.
 Agriculture Building, north end, 6-inch supply.
 Oriental Building, southwest corner, 4-inch supply.
 Oriental Building, center, west side, 4-inch supply.
 Manufactures Building, center, west side, 6-inch supply.
 Washington Building, southeast corner, 4-inch supply.

Total number of hydrants, northern district, 434.

HYDRANTS—Continued

Southern District

Macadam and Curry, southeast corner, 6-inch supply.
 Macadam and Gaines, northwest corner, 3-inch supply.
 Macadam and Lowell, northeast corner, 6-inch supply.
 Macadam and Lowell, southeast corner, 6-inch supply.
 Macadam and Bancroft, northeast corner, 6-inch supply.
 Macadam and Bancroft, southeast corner, 3-inch supply.
 Macadam, between Bancroft and Hamilton, east side, 6-inch supply.
 Macadam and Hamilton avenue, northeast corner, 3-inch supply.
 Macadam and Hamilton avenue, southeast corner, 6-inch supply.
 Macadam and Seymour, northeast corner, 6-inch supply.
 Macadam and Admiral, northeast corner, 3-inch supply.
 Macadam, between Terwilliger and Lee, east side, 3-inch supply.
 Macadam, between Terwilliger and Lee, east side, 6-inch supply.
 Macadam and Boundary, northeast corner, 6-inch supply.
 Macadam, between Sweeney and Boundary, east side, 6-inch supply.
 Macadam and Sweeney, southeast corner, 6-inch supply.
 Macadam, between Flower and Sweeney, east side, 3-inch supply.
 Macadam, between Sweeney and Flower, east side, 6-inch supply.
 Macadam and Flower, southwest corner, 6-inch supply.
 Macadam, between Flower and Thompson, west side, 6-inch supply.
 Macadam and Thompson, northeast corner, 3-inch supply.
 Macadam and Thompson, southwest corner, 6-inch supply.
 Macadam and Caroline, northeast corner, 3-inch supply.
 Macadam, between Thompson and Caroline, west side, 6-inch supply.
 Macadam and Dakota, southeast corner, 6-inch supply.
 Macadam, between Nevada and Miles, east side, 3-inch supply.
 Macadam, between Nebraska and Idaho, east side, 3-inch supply.
 Macadam, between Florida and Vermont, east side, 3-inch supply.
 Macadam, between California and Texas, east side, 3-inch supply.
 Macadam, between Nevada and Miles, east side, 3-inch supply.
 Macadam and Miles, southeast corner, 3-inch supply.
 Macadam, between Miles and Cemetery, east side, 3-inch supply.
 Macadam, between Miles and Cemetery, east side, 3-inch supply.
 Macadam and Tannery, east side, 4-inch supply.
 Florida, between Macadam and Virginia, south side, 4-inch supply.
 Hamilton and Ohio, northeast corner, 4-inch supply.
 Hood and Lincoln, northeast corner, 6-inch supply.
 Hood and Caruthers, southwest corner, 3-inch supply.
 Hood and Sheridan, southeast corner, 6-inch supply.
 Hood and Baker, northeast corner, 3-inch supply.
 Hood and Meade, southwest corner, 3-inch supply.
 Hood and Grover, southeast corner, 3-inch supply.

HYDRANTS—Continued

Southern District

Hood and Whittaker, southeast corner, 3-inch supply.
 Hood and Pennoyer, southeast corner, 3-inch supply.
 Kelly and Gaines, southeast corner, 4-inch supply.
 Kelly and Lane, southeast corner, 4-inch supply.
 Kelly and Abernethy, southeast corner, 4-inch supply.
 Kelly and Thomas, southeast corner, 4-inch supply.
 Kelly and Bancroft avenue, southeast corner, 4-inch supply.
 Kelly and Bancroft avenue, northwest corner, 4-inch supply.
 Kelly and Hamilton, southeast corner, 6-inch supply.
 Corbett and Porter, northwest corner, 3-inch supply.
 Corbett and Gibbs, southeast corner, 3-inch supply.
 Corbett and Curry, southeast corner, 3-inch supply.
 Corbett and Gaines, southeast corner, 3-inch supply.
 Corbett and Abernethy, southeast corner, 3-inch supply.
 Corbett and Lowell avenue, southeast corner, 3-inch supply.
 Corbett and Bancroft, southeast corner, 6-inch supply.
 Corbett and Hamilton, southeast corner, 3-inch supply.
 Virginia and Nebraska, southeast corner, 6-inch supply.
 Virginia and Idaho, northwest corner, 3-inch supply.
 Nebraska, between Virginia and Wisconsin, south side, 6-inch supply.
 Idaho, between Virginia and Wisconsin, north side, 4-inch supply.
 Wisconsin and Nebraska, southeast corner, 6-inch supply.
 Water and Columbia, southwest corner, 3-inch supply.
 Water and Clay, southwest corner, 3-inch supply.
 Water and Mill, northeast corner, 3-inch supply.
 Water and Montgomery, northeast corner, 3-inch supply.
 Water and Harrison, northeast corner, 3-inch supply.
 Water and Hood, east side, 6-inch supply.
 Water and Hooker, northwest corner, 3-inch supply.
 Water and Grover, southeast corner, 3-inch supply.
 Front and Morrison, southeast corner, 6-inch supply.
 Front and Morrison, southwest corner, 6-inch supply.
 Front and Yamhill, southeast corner, 6-inch supply.
 Front and Yamhill, northwest corner, 6-inch supply.
 Front and Taylor, southeast corner, 6-inch supply.
 Front and Taylor, northwest corner, 6-inch supply.
 Front and Salmon, southwest corner, 6-inch supply.
 Front and Salmon, northwest corner, 6-inch supply.
 Front and Main, southwest corner, 6-inch supply.
 Front and Main, northeast corner, 6-inch supply.
 Front and Madison, northeast corner, 6-inch supply.
 Front and Madison, southwest corner, 6-inch supply.

HYDRANTS—Continued

Southern District

Front and Jefferson, northwest corner, 4-inch supply.
 Front and Jefferson, northeast corner, 6-inch supply.
 Front and Columbia, southeast corner, 4-inch supply.
 Front and Columbia, northeast corner, 6-inch supply.
 Front and Clay, northeast corner, 6-inch supply.
 Front and Market, southwest corner, 4-inch supply.
 Front and Montgomery, southeast corner, 6-inch supply.
 Front and Hall, northeast corner, 6-inch supply.
 Front and Lincoln, northwest corner, 4-inch supply.
 Front and Caruthers, southwest corner, 4-inch supply.
 Front and Meade, southeast corner, 4-inch supply.
 Front and Porter, northwest corner, 6-inch supply.
 Front and Gibbs, northeast corner, 3-inch supply.
 Front and Curry, northeast corner, 3-inch supply.
 Front and Lowell, southwest corner, 4-inch supply.
 Front and Hamilton, southeast corner, 3-inch supply.
 First and Taylor, southwest corner, 4-inch supply.
 First and Salmon, southeast corner, 6-inch supply.
 First and Main, northwest corner, 4-inch supply.
 First and Madison, southwest corner, 4-inch supply.
 First and Jefferson, northeast corner, 6-inch supply.
 First and Columbia, southwest corner, 6-inch supply.
 First and Clay, southwest corner, 6-inch supply.
 First and Market, southwest corner, 6-inch supply.
 First and Mill, northwest corner, 6-inch supply.
 First and Montgomery, northwest corner, 6-inch supply.
 First and Harrison, southeast corner, 6-inch supply.
 First and Hall, southeast corner, 6-inch supply.
 First and College, east side, 6-inch supply.
 First and Lincoln, northeast corner, 6-inch supply.
 First and Grant, southeast corner, 3-inch supply.
 First and Grant, northwest corner, 6-inch supply.
 First and Sherman, southwest corner, 6-inch supply.
 First and Caruthers, southwest corner, 6-inch supply.
 First and Sheridan, southeast corner, 6-inch supply.
 First and Hooker, southeast corner, 6-inch supply.
 First and Woods, southeast corner, 3-inch supply.
 First and Whittaker, southeast corner, 3-inch supply.
 First and Pennoyer, southeast corner, 3-inch supply.
 First and Bancroft avenue, northeast corner, 3-inch supply.
 Second and Taylor, southwest corner, 6-inch supply.
 Second and Taylor, northwest corner, 6-inch supply.

HYDRANTS—Continued

Southern District

Second and Yamhill, southwest corner, 6-inch supply.
 Second and Yamhill, northwest corner, 6-inch supply.
 Second and Salmon, southwest corner, 6-inch supply.
 Second and Salmon, northwest corner, 6-inch supply.
 Second and Main, southwest corner, 6-inch supply.
 Second and Main, northwest corner, 6-inch supply.
 Second and Madison, southwest corner, 6-inch supply.
 Second and Madison, northwest corner, 6-inch supply.
 Second and Jefferson, northwest corner, 6-inch supply.
 Second and Jefferson, northeast corner, 6-inch supply.
 Second and Columbia, northwest corner, 4-inch supply.
 Second and Mill, southwest corner, 6-inch supply.
 Second and Harrison, southwest corner, 6-inch supply.
 Second and Lincoln, northwest corner, 3-inch supply.
 Second and Arthur, southeast corner, 6-inch supply.
 Second and Porter, northeast corner, 3-inch supply.
 Third and Yamhill, southwest corner, 4-inch supply.
 Third and Salmon, southwest corner, 4-inch supply.
 Third and Main, southwest corner, 6-inch supply.
 Third and Madison, southwest corner, 6-inch supply.
 Third and Jefferson, southwest corner, 6-inch supply.
 Third and Columbia, southwest corner, 6-inch supply.
 Third and Clay, northwest corner, 3-inch supply.
 Third and Clay, southwest corner, 6-inch supply.
 Third and Market, southwest corner, 4-inch supply.
 Third and Mill, southwest corner, 6-inch supply.
 Third and Montgomery, southwest corner, 6-inch supply.
 Third and Harrison, southwest corner, 4-inch supply.
 Third and Harrison, northwest corner, 6-inch supply.
 Third and Hall, southwest corner, 6-inch supply.
 Third and Sheridan, northeast corner, 3-inch supply.
 Third and Hooker, northeast corner, 3-inch supply.
 Fourth, between Morrison and Yamhill, east side, 6-inch supply.
 Fourth and Salmon, northeast corner, 4-inch supply.
 Fourth and Salmon, southeast corner, 6-inch supply.
 Fourth and Madison, southeast corner, 4-inch supply.
 Fourth and Jefferson, northwest corner, 3-inch supply.
 Fourth and Jefferson, southeast corner, 6-inch supply.
 Fourth and Mill, southwest corner, 4-inch supply.
 Fourth, between Mill and Montgomery, east side, 6-inch supply.
 Fourth and Harrison, northwest corner, 3-inch supply.
 Fourth and Hall, southwest corner, 6-inch supply.

HYDRANTS—Continued

Southern District

Fourth and Lincoln, northwest corner, 3-inch supply.
 Fourth and Sherman, southwest corner, 4-inch supply.
 Fourth and Sherman, northwest corner, 4-inch supply.
 Fourth and Hooker, southwest corner, 4-inch supply.
 Fourth and Woods, northeast corner, 3-inch supply.
 Fifth and Morrison, southwest corner, 6-inch supply.
 Fifth and Yamhill, northwest corner, 6-inch supply.
 Fifth and Taylor, northwest corner, 6-inch supply.
 Fifth and Salmon, southwest corner, 6-inch supply.
 Fifth and Main, northwest corner, 6-inch supply.
 Fifth and Madison, northwest corner, 6-inch supply.
 Fifth and Jefferson, southeast corner, 3-inch supply.
 Fifth and Jefferson, northwest corner, 6-inch supply.
 Fifth and Columbia, southeast corner, 4-inch supply.
 Fifth and Market, southeast corner, 6-inch supply.
 Fifth and Hall, northeast corner, 6-inch supply.
 Fifth and Grant, southwest corner, 3-inch supply.
 Sixth and Morrison, southeast corner, 6-inch supply.
 Sixth and Yamhill, southeast corner, 6-inch supply.
 Sixth and Taylor, southeast corner, 6-inch supply.
 Sixth and Salmon, southeast corner, 6-inch supply.
 Sixth and Main, southeast corner, 6-inch supply.
 Sixth and Madison, southeast corner, 6-inch supply.
 Sixth and Madison, northeast corner, 6-inch supply.
 Sixth and Jefferson, northeast corner, 6-inch supply.
 Sixth and Jefferson, southeast corner, 6-inch supply.
 Sixth and Clay, northeast corner, 3-inch supply.
 Sixth and Harrison, southwest corner, 4-inch supply.
 Sixth and Hall, northeast corner, 6-inch supply.
 Sixth and Sherman, southeast corner, 3-inch supply.
 Sixth and Sheridan, northeast corner, 3-inch supply.
 Seventh and Morrison, southwest corner, 6-inch supply.
 Seventh and Yamhill, northwest corner, 6-inch supply.
 Seventh and Taylor, northwest corner, 6-inch supply.
 Seventh and Salmon, northwest corner, 6-inch supply.
 Seventh and Jefferson, northeast corner, 6-inch supply.
 Seventh and Market, southeast corner, 3-inch supply.
 Seventh and Montgomery, northeast corner 3-inch supply.
 Seventh and Jackson, southeast corner, 3-inch supply.
 Seventh and Lincoln, northeast corner, 3-inch supply.
 Seventh and Grant, northeast corner, 3-inch supply.
 Park and Yamhill, southwest corner, 6-inch supply.

HYDRANTS—Continued

Southern District

Park and Yamhill, northeast corner, 6-inch supply.
 Park and Taylor, southwest corner, 6-inch supply.
 Park and Salmon, northwest corner, 6-inch supply.
 Park and Jefferson, northeast corner, 6-inch supply.
 West Park and Yamhill, southeast corner, 4-inch supply.
 West Park and Salmon, northwest corner, 4-inch supply.
 West Park and Jefferson, northwest corner, 6-inch supply.
 West Park and Clay, northwest corner, 3-inch supply.
 West Park and Mill, southwest corner, 3-inch supply.
 West Park and Harrison, southwest corner, 3-inch supply.
 West Park and College, southwest corner, 3-inch supply.
 Tenth and Yamhill, southwest corner, 4-inch supply.
 Tenth and Salmon, northwest corner, 4-inch supply.
 Tenth and Madison, northwest corner, 6-inch supply.
 Tenth and Jefferson, northwest corner, 6-inch supply.
 Eleventh and Yamhill, southwest corner, 4-inch supply.
 Eleventh and Taylor, southwest corner, 6-inch supply.
 Eleventh and Salmon, northwest corner, 4-inch supply.
 Eleventh and Main, southwest corner, 4-inch supply.
 Eleventh and Madison, southwest corner, 4-inch supply.
 Eleventh and Jefferson, northeast corner, 6-inch supply.
 Eleventh and Hall, northwest corner, 6-inch supply.
 Twelfth and Yamhill, southwest corner, 6-inch supply.
 Twelfth and Madison, northwest corner, 4-inch supply.
 Twelfth and Jefferson, northwest corner, 6-inch supply.
 Thirteenth and Salmon, northwest corner, 4-inch supply.
 Thirteenth and Jefferson, northeast corner, 6-inch supply.
 Thirteenth and Columbia, southeast corner, 4-inch supply.
 Thirteenth and Montgomery, northwest corner, 3-inch supply.
 Thirteenth and Harrison, northeast corner, 6-inch supply.
 Thirteenth and Hall, northeast corner, 6-inch supply.
 Fourteenth and Morrison, southwest corner, 4-inch supply.
 Fourteenth and Taylor, northwest corner, 3-inch supply.
 Fourteenth and Main, southwest corner, 3-inch supply.
 Fourteenth and Jefferson, northeast corner, 6-inch supply.
 Fourteenth and Jefferson, southwest corner, 3-inch supply.
 Jefferson, between Fourteenth and Fifteenth, north side, 6-inch supply.
 Fourteenth and Clay, northwest corner, 4-inch supply.
 Columbia, bet. Fourteenth and Sixteenth, north side, 4-inch supply.
 Clay, between Fourteenth and Sixteenth, north side, 4-inch supply.
 Market, between Fourteenth and Sixteenth, north side, 4-inch supply.
 Mill, between Fourteenth and Sixteenth, north side, 4-inch supply.

HYDRANTS—Continued

Southern District

Sixteenth and Jefferson, northwest corner, 6-inch supply.
 Sixteenth and Madison, northwest corner, 6-inch supply.
 Sixteenth and Taylor, southeast corner, 3-inch supply.
 Sixteenth and Montgomery, northeast corner, 3-inch supply.
 Sixteenth and College, southeast corner, 4-inch supply.
 Sixteenth and Clifton, northeast corner, 4-inch supply.
 Sixteenth and Elizabeth, northeast corner, 3-inch supply.
 Seventeenth and Jefferson, northeast corner, 6-inch supply.
 Seventeenth and Clay, northeast corner, 3-inch supply.
 Seventeenth and Myrtle, northeast corner, 4-inch supply.
 Chapman and Morrison, southeast corner, 4-inch supply.
 Chapman and Taylor, northeast corner, 3-inch supply.
 Chapman and Main, northwest corner, 4-inch supply.
 Chapman and Madison, northwest corner, 4-inch supply.
 Chapman and Mill, northeast corner, 3-inch supply.
 Chapman and Myrtle, southwest corner, 3-inch supply.
 Chapman and Elizabeth, southwest corner, 3-inch supply.
 Nineteenth and Elizabeth, northwest corner, 4-inch supply.
 Stout and Main, southwest corner, 3-inch supply.
 Stout and Jefferson, northwest corner, 3-inch supply.
 Ford and Main, northeast corner, 3-inch supply.
 Green avenue and Ford, southwest corner, 6-inch supply.
 Ford and Vista avenue, southwest corner, 3-inch supply.
 King and Park avenue, southwest corner, 3-inch supply.
 St. Clair and Park avenue, northeast corner, 3-inch supply.
 Twentieth and Spring, northeast corner, 3-inch supply.
 Twentieth and Laurel, northwest corner, 3-inch supply.
 Twentieth and Jackson, southwest corner, 3-inch supply.
 Twentieth and Carter, southwest corner, 4-inch supply.
 200 feet north of Carter on Twentieth, south side, 4-inch supply.
 Twentieth and Market Street drive, 3-inch supply.
 King and Madison, northwest corner, 4-inch supply.
 King and Wayne, southwest corner, 3-inch supply.
 St. Clair and Madison, northeast corner, 4-inch supply.
 St. Clair and Wayne, northeast corner, 3-inch supply.

Total number of hydrants in Southern District, 288.

HYDRANTS—Continued

East Side, Southern District

East Water and East Ash, northeast corner, 6-inch supply.
 Fire Boat, foot of East Washington street, 4-inch supply.
 East Water and East Taylor, southeast corner, 6-inch supply.
 East Water and Hawthorne avenue, southwest corner, 4-inch supply.
 East Water and East Clay, southeast corner, 4-inch supply.
 East First and East Burnside, southeast corner, 6-inch supply.
 East First and East Ankeny, southeast corner, 6-inch supply.
 East First and East Ash, southwest corner, 6-inch supply.
 East First and East Oak, southeast corner, 6-inch supply.
 East First and East Stark, southeast corner, 6-inch supply.
 East First and East Washington, southeast corner, 6-inch supply.
 East First and East Alder, northeast corner, 6-inch supply.
 East First and East Alder, southeast corner, 6-inch supply.
 East First and East Morrison, southeast corner, 6-inch supply.
 East First and East Morrison, northeast corner, 6-inch supply.
 East First and Belmont, southeast corner, 6-inch supply.
 East First and Belmont, northeast corner, 6-inch supply.
 East First and East Yamhill, northeast corner, 6-inch supply.
 East First and East Yamhill, southeast corner, 6-inch supply.
 East First and East Main, northeast corner, 6-inch supply.
 East First and East Main, southwest corner, 6-inch supply.
 East First and East Madison, southeast corner, 6-inch supply.
 East First and Hawthorne avenue, southeast corner, 6-inch supply.
 East First and East Clay, northeast corner, 6-inch supply.
 East First and East Clay, southeast corner, 4-inch supply.
 East First and East Market, northeast corner, 6-inch supply.
 East Third and East Burnside, southeast corner, 6-inch supply.
 East Third and East Ankeny, southwest corner, 6-inch supply.
 East Third and East Oak, northwest corner, 6-inch supply.
 East Third and East Morrison, southwest corner, 6-inch supply.
 East Third and East Market, northeast corner, 6-inch supply.
 East Third and East Mill, northeast corner, 4-inch supply.
 Three hydrants in Inman-Poulsen Company's yard.
 Union avenue and East Burnside, southeast corner, 6-inch supply.
 Union avenue and East Burnside, southwest corner, 6-inch supply.
 Union avenue and East Ankeny, northeast corner, 4-inch supply.
 Union avenue and East Pine, northeast corner, 4-inch supply.
 Union avenue and East Washington, southeast corner, 6-inch supply.
 Union avenue and East Alder, northeast corner, 4-inch supply.
 Union avenue and East Morrison, southeast corner, 6-inch supply.
 Union avenue and East Clay, southeast corner, 4-inch supply.
 Union avenue and East Caruthers, southeast corner, 4-inch supply.

HYDRANTS—Continued

East Side, Southern District

Union avenue and Ivon, northeast corner, 4-inch supply.
 Grand avenue and East Burnside, southwest corner, 6-inch supply.
 Grand avenue and East Burnside, southeast corner, 6-inch supply.
 Grand avenue and East Ankeny, southeast corner, 6-inch supply.
 Grand avenue and East Ash, southeast corner, 6-inch supply.
 Grand avenue and East Pine, southeast corner, 6-inch supply.
 Grand avenue and East Stark, southeast corner, 6-inch supply.
 Grand avenue and East Washington, southeast corner, 6-inch supply.
 Grand avenue and East Alder, southeast corner, 6-inch supply.
 Grand avenue and East Morrison, southeast corner, 6-inch supply.
 Grand avenue and Belmont, southeast corner, 6-inch supply.
 Grand avenue and East Yamhill, southeast corner, 6-inch supply.
 Grand avenue and East Taylor, southeast corner, 6-inch supply.
 Grand avenue and East Salmon, southeast corner, 6-inch supply.
 Grand avenue and East Main, southeast corner, 6-inch supply.
 Grand avenue and East Madison, southeast corner, 6-inch supply.
 Grand avenue and Hawthorne avenue, northeast corner, 6-inch supply.
 Grand avenue and Stephens, southeast corner, 4-inch supply.
 Grand avenue and East Lincoln, southeast corner, 4-inch supply.
 Grand avenue and Taggart, northeast corner, 4-inch supply.
 East Sixth and East Burnside, southwest corner, 6-inch supply.
 East Sixth and East Ankeny, southeast corner, 4-inch supply.
 East Sixth and East Pine, southwest corner, 6-inch supply.
 East Sixth and East Alder, southeast corner, 6-inch supply.
 East Sixth and Belmont, southwest corner, 4-inch supply.
 East Sixth and East Market, northeast corner, 6-inch supply.
 East Seventh and East Burnside, southwest corner, 6-inch supply.
 East Seventh and East Oak, southwest corner, 4-inch supply.
 East Seventh and East Alder, southwest corner, 6-inch supply.
 East Seventh and East Morrison, southwest corner, 6-inch supply.
 East Seventh and Belmont, southwest corner, 6-inch supply.
 East Seventh and East Yamhill, southwest corner, 6-inch supply.
 East Seventh and East Taylor, southwest corner, 6-inch supply.
 East Seventh and East Salmon, southwest corner, 6-inch supply.
 East Seventh and East Main, southwest corner, 6-inch supply.
 East Seventh and East Madison, southwest corner, 6-inch supply.
 East Seventh and Hawthorne avenue, southwest corner, 6-inch supply.
 East Seventh and East Clay, southeast corner, 4-inch supply.
 East Seventh and East Mill, northeast corner, 4-inch supply.
 East Seventh and Stephens, southeast corner, 6-inch supply.
 East Seventh and East Harrison, southeast corner, 4-inch supply.
 East Seventh and East Grant, southeast corner, 4-inch supply.

HYDRANTS—Continued

East Side, Southern District

East Eighth and East Burnside, southeast corner, 4-inch supply.
 East Eighth and East Burnside, southwest corner, 6-inch supply.
 East Eighth and East Pine, southeast corner, 4-inch supply.
 East Eighth and East Taylor, southeast corner, 6-inch supply.
 East Eighth and East Market, northeast corner, 6-inch supply.
 East Eighth and Stephens, southwest corner, 4-inch supply.
 East Eighth and East Lincoln, southeast corner, 4-inch supply.
 East Eighth and East Sherman, northeast corner, 4-inch supply.
 East Eighth and Brooklyn, northwest corner, 4-inch supply.
 East Eighth and Karl, northeast corner, 4-inch supply.
 East Eighth and Center, northeast corner, 4-inch supply.
 East Ninth and East Burnside, southeast corner, 6-inch supply.
 East Ninth and East Washington, southwest corner, 4-inch supply.
 East Ninth and Belmont, southwest corner, 4-inch supply.
 East Ninth and East Clay, southwest corner, 4-inch supply.
 East Ninth and East Sherman, southwest corner, 4-inch supply.
 East Ninth and Beacon, southwest corner, 4-inch supply.
 East Tenth and East Ankeny, southeast corner, 4-inch supply.
 East Tenth and East Oak, southeast corner, 4-inch supply.
 East Tenth and East Caruthers, southwest corner, 4-inch supply.
 East Tenth and East Market, northwest corner, 6-inch supply.
 East Eleventh and East Burnside, southeast corner, 4-inch supply.
 East Eleventh and East Clay, southeast corner, 4-inch supply.
 East Eleventh and East Market, northwest corner, 6-inch supply.
 East Eleventh and Stephens, southeast corner, 4-inch supply.
 East Eleventh and East Lincoln, southeast corner, 4-inch supply.
 East Eleventh and East Sherman, southeast corner, 4-inch supply.
 Milwaukie and Clinton, southeast corner, 6-inch supply.
 Milwaukie and Powell, southeast corner, 6-inch supply.
 Milwaukie and Frederick, northwest corner, 4-inch supply.
 Milwaukie and Karl, southeast corner, 6-inch supply.
 Milwaukie and Rhone, southwest corner, 4-inch supply.
 Milwaukie and Caywood, southwest corner, 4-inch supply.
 Milwaukie, 200 feet south of Holgate, east side, 4-inch supply.
 Milwaukie and Harold, southeast corner, 4-inch supply.
 Milwaukie and Romona, southwest corner, 4-inch supply.
 Milwaukie and Duke, southeast corner, 4-inch supply.
 East Twelfth and East Pine, southwest corner, 4-inch supply.
 East Twelfth and East Oak, southeast corner, 4-inch supply.
 East Twelfth and East Washington, southwest corner, 4-inch supply.
 East Twelfth and East Morrison, southeast corner, 4-inch supply.
 East Twelfth and Belmont, southwest corner, 4-inch supply.

HYDRANTS—Continued

East Side, Southern District

East Twelfth and East Taylor, southeast corner, 6-inch supply.
 East Twelfth and East Main, southeast corner, 6-inch supply.
 East Twelfth and Hawthorne avenue, northeast corner, 6-inch supply.
 East Twelfth and East Market, northwest corner, 6-inch supply.
 East Thirteenth and East Burnside, southeast corner, 6-inch supply.
 East Thirteenth and East Stark, southeast corner, 6-inch supply.
 East Thirteenth and East Alder, southeast corner, 6-inch supply.
 East Thirteenth and Powell, southeast corner, 4-inch supply.
 East Thirteenth and Rhine, southeast corner, 4-inch supply.
 East Fourteenth and East Alder, southeast corner, 6-inch supply.
 East Fourteenth and Belmont, southwest corner, 4-inch supply.
 East Fifteenth and East Stark, southeast corner, 6-inch supply.
 East Fifteenth and Clinton, southeast corner, 4-inch supply.
 East Sixteenth and East Ankeny, southeast corner, 4-inch supply.
 East Sixteenth and East Pine, southeast corner, 6-inch supply.
 East Sixteenth and East Morrison, southwest corner, 4-inch supply.
 East Sixteenth and East Taylor, southeast corner, 6-inch supply.
 East Sixteenth and East Main, southeast corner, 4-inch supply.
 East Sixteenth and Hawthorne ave., northwest corner, 6-inch supply.
 East Sixteenth and Karl, southeast corner, 4-inch supply.
 East Eighteenth and East Burnside, southeast corner, 4-inch supply.
 East Eighteenth and East Pine, southwest corner, 6-inch supply.
 East Eighteenth and Clinton, southwest corner, 4-inch supply.
 East Eighteenth and Powell, northwest corner, 4-inch supply.
 East Nineteenth and East Ash, southeast corner, 6-inch supply.
 East Nineteenth and East Stark, southeast corner, 4-inch supply.
 East Nineteenth and East Main, southeast corner, 4-inch supply.
 East Twentieth and East Burnside, southeast corner, 4-inch supply.
 East Twentieth and East Morrison, northwest corner, 4-inch supply.
 East Twentieth and East Yamhill, northeast corner, 6-inch supply.
 East Twentieth and Karl, southwest corner, 4-inch supply.
 East Twenty-first and East Main, southeast corner, 6-inch supply.
 East Twenty-first and Ivon, northeast corner, 4-inch supply.
 East Twenty-first and Brooklyn, southeast corner, 4-inch supply.
 East Twenty-first and Powell, northwest corner, 6-inch supply.
 East Twenty-first and Bush, northwest corner, 4-inch supply.
 East Twenty-second and East Ankeny, southwest corner, 4-in. supply.
 East Twenty-second and East Stark, southeast corner, 4-inch supply.
 East Twenty-second and East Taylor, northeast corner, 4-in. supply.
 East Twenty-second and Hawthorne, northeast corner, 6-in. supply.
 East Twenty-third and East Main, southwest corner, 6-inch supply.
 East Twenty-fourth and East Burnside, southeast corner, 4-in. supply.

HYDRANTS—Continued

East Side, Southern District

East Twenty-fifth and East Salmon, southwest corner, 6-inch supply.
 East Twenty-sixth and East Ankeny, southwest corner, 4-in. supply.
 East Twenty-sixth and Hawthorne ave., northeast corner, 6-in. supply.
 East Twenty-sixth and Division, southeast corner, 4-inch supply.
 East Twenty-sixth and Brooklyn, southeast corner, 6-inch supply.
 East Twenty-sixth and Kelley, northeast corner, 6-inch supply.
 East Twenty-sixth and Powell, northeast corner, 4-inch supply.
 East Twenty-eighth and East Burnside, southeast corner, 6-in. supply.
 East Twenty-eighth and East Pine, northwest corner, 6-inch supply.
 East Twenty-eighth and East Stark, northwest corner, 6-inch supply.
 East Twenty-eighth and Belmont, southeast corner, 6-inch supply.
 East Twenty-eighth and East Taylor, southeast corner, 6-in. supply.
 East Twenty-eighth and East Main, northeast corner, 6-inch supply.
 Kenilworth and Gladstone, southwest corner, 4-inch supply.
 East Thirtieth and East Ankeny, southwest corner, 4-inch supply.
 East Thirtieth and East Stark, southwest corner, 6-inch supply.
 East Thirty-first and East Pine, northeast corner, 4-inch supply.
 East Thirty-first and East Taylor, northeast corner, 4-inch supply.
 East Thirty-second and East Stark, southeast corner, 6-inch supply.
 East Thirty-second and East Morrison, northeast corner, 4-in. supply.
 East Thirty-second and Gladstone, southwest corner, 4-inch supply.
 East Thirty-third and East Morrison, northeast corner, 4-in. supply.
 East Thirty-third and Belmont, southeast corner, 6-inch supply.
 Greenwood and Clinton, southeast corner, 6-inch supply.
 East Thirty-fourth and East Stark, southeast corner, 4-inch supply.
 East Thirty-fourth and East Alder, northwest corner, 4-inch supply.
 East Thirty-fourth and Belmont, southeast corner, 4-inch supply.
 East Thirty-fourth and East Taylor, southeast corner, 4-inch supply.
 East Thirty-fourth and East Main, southeast corner, 4-inch supply.
 East Thirty-fourth and Hawthorne, northeast corner, 4-in. supply.
 Margaret avenue, 200 feet south of Hawthorne ave., 4-inch supply.
 Margaret avenue, and Division, northwest corner, 6-inch supply.
 Margaret avenue and Murry, northwest corner, 4-inch supply.
 East Thirty-fifth and East Morrison, northwest corner, 4-in. supply.
 East Thirty-fifth and East Yamhill, northwest corner, 6-inch supply.
 East Thirty-fifth and East Taylor, northwest corner, 6-inch supply.
 East Thirty-fifth and East Madison, northwest corner, 4-inch supply.
 East Thirty-sixth and East Main, northeast corner, 4-inch supply.
 East Thirty-seventh and East Alder, northeast corner, 6-inch supply.
 East Thirty-seventh and Hawthorne, southeast corner, 6-in. supply.
 East Thirty-seventh and Division, southeast corner, 6-inch supply.
 East Thirty-seventh and Clinton, southeast corner, 6-inch supply.

HYDRANTS—Continued

East Side, Southern District

East Thirty-eighth and Belmont, southeast corner, 6-inch supply.
 East Thirty-eighth and East Taylor, northeast corner, 6-inch supply.
 East Thirty-ninth and Clinton, southeast corner, 6-inch supply.
 East Fortieth and Belmont, northwest corner, 6-inch supply.
 East Fortieth and East Taylor, northeast corner, 4-inch supply.
 East Fortieth and Hawthorne avenue, southeast corner, 6-in. supply.
 East Forty-first and Division, southwest corner, 6-inch supply.
 East Forty-first and Clinton, southwest corner, 6-inch supply.
 East Forty-first and Ellsworth, 24 feet east of Ellsworth, 6-in. supply.
 East Forty-seventh and East Stark, southeast corner, 6-inch supply.
 East Fiftieth and Division, northwest corner, 6-inch supply.
 East Sixtieth and East Main, northeast corner, 6-inch supply.
 East Sixty-second and East Stark, southeast corner, 6-inch supply.
 East Seventy-sixth and East Ash, northeast corner, 6-inch supply.
 East Seventy-sixth and East Pine, northeast corner, 6-inch supply.
 East Seventy-sixth and East Morrison, northeast corner, 6-in. supply.
 East Seventy-sixth and East Taylor, northeast corner, 6-inch supply.
 West avenue, bet. Base Line road and Belmont, east side, 6-in. supply.
 West avenue and Park avenue, southwest corner, 6-inch supply.
 East Seventy-eighth and East Stark, northeast corner, 6-inch supply.
 East Eightieth and Delano, southeast corner, 6-inch supply.

HYDRANTS—Continued

Sellwood, Southeast District

East Water and Spokane, east side of mill yard, 4-inch supply.
 East Seventh and Umatilla, northeast corner, 3-inch supply.
 East Ninth and Malden, southeast corner, 6-inch supply.
 East Ninth and Bidwell, southwest corner, 6-inch supply.
 East Ninth and Lexington, southeast corner, 4-inch supply.
 East Ninth and Spokane, southeast corner, 3-inch supply.
 East Ninth and Umatilla, southeast corner, 3-inch supply.
 East Ninth and Sherrett, southeast corner, 4-inch supply.
 East Ninth and Marion, northeast corner, 6-inch supply.
 East Eleventh and Bidwell, southeast corner, 6-inch supply.
 East Eleventh and Lexington, southeast corner, 4-inch supply.
 East Eleventh and Spokane, southwest corner, 4-inch supply.
 East Eleventh and Umatilla, northeast corner, 4-inch supply.
 East Thirteenth and Sherrett, northeast corner, 4-inch supply.
 East Thirteenth and Umatilla, northwest corner, 3-inch supply.
 East Thirteenth and Spokane, southwest corner, 3-inch supply.
 East Thirteenth and Linn, northeast corner, 4-inch supply.
 East Fourteenth and Clackamas, northwest corner, 6-inch supply.
 East Fourteenth and Glenwood, southeast corner, 4-inch supply.
 East Fifteenth and Leo, southeast corner, 6-inch supply.
 East Fifteenth and Nehalem, southeast corner, 6-inch supply.
 East Fifteenth and Umatilla, northeast corner, 4-inch supply.
 East Sixteenth and Clackamas, northwest corner, 6-inch supply.
 East Seventeenth and Spokane, southwest corner, 4-inch supply.
 East Seventeenth and Umatilla, northwest corner, 4-inch supply.
 East Nineteenth and Spokane, southwest corner, 4-inch supply.
 East Nineteenth and Umatilla, northwest corner, 4-inch supply.
 East Nineteenth and Clackamas, southwest corner, 6-inch supply.
 East Twenty-first and Tacoma, northwest corner, 4-inch supply.
 East Twenty-first and Umatilla, northwest corner, 4-inch supply.
 Total number of hydrants in southeast district, 286.

HYDRANTS—Continued

Northeast District.

East First and East Glisan, southeast corner, 6-inch supply.
 East First and East Irving, southeast corner, 6-inch supply.
 East First and Holladay avenue, southeast corner, 6-inch supply.
 East Second and Multnomah, southeast corner, 4-inch supply.
 East Second and Halsey, northeast corner, 4-inch supply.
 East Third and East Davis, southeast corner, 6-inch supply.
 Union avenue and East Couch, southeast corner, 6-inch supply.
 Union avenue and East Davis, southeast corner, 6-inch supply.
 Union avenue and East Glisan, northeast corner, 6-inch supply.
 Union avenue and East Hoyt, northeast corner, 6-inch supply.
 Union avenue and East Irving, northeast corner, 6-inch supply.
 Union avenue and Oregon, northeast corner, 6-inch supply.
 Union avenue and Pacific, northeast corner, 6-inch supply.
 Union avenue and Holladay avenue, northeast corner, 4-inch supply.
 Union avenue and Multnomah, southeast corner, 4-inch supply.
 Union avenue and Clackamas, southeast corner, 6-inch supply.
 Union avenue and Weidler, southeast corner, 4-inch supply.
 Union avenue and Tillamook, southwest corner, 4-inch supply.
 Union avenue and Sacramento, northwest corner, 4-inch supply.
 Union avenue and Russell, southwest corner, 6-inch supply.
 Union avenue and Stanton, southwest corner, 6-inch supply.
 Union avenue and Morris, northwest corner, 4-inch supply.
 Union avenue and Cook, northwest corner, 4-inch supply.
 Union avenue and Failing, southeast corner, 6-inch supply.
 Union avenue and Skidmore, southeast corner, 6-inch supply.
 Union avenue and Going, southwest corner, 4-inch supply.
 Union avenue and Alberta, southwest corner, 6-inch supply.
 Union avenue and Killingsworth, southwest corner, 6-inch supply.
 Union avenue and Mechanic, southeast corner, 6-inch supply.
 Union avenue and Garrett, southwest corner, 6-inch supply.
 Union avenue and Ainsworth, northwest corner, 6-inch supply.
 Union avenue and Dekum, southwest corner, 6-inch supply.
 Union avenue and Colfax, northwest corner, 6-inch supply.
 Durham and Dekum, northwest corner, 6-inch supply.
 Grand avenue and East Couch, southeast corner, 6-inch supply.
 Grand avenue and East Davis, southeast corner, 6-inch supply.
 Grand avenue and East Everett, southeast corner, 6-inch supply.
 Grand avenue and Broadway, southwest corner, 4-inch supply.
 300 feet east of Union avenue on Eugene, south side, 6-inch supply.
 Grand avenue and Wygant, northwest corner, 6-inch supply.
 East Sixth and East Burnside, northeast corner, 6-inch supply.
 East Sixth and East Davis, southeast corner, 4-inch supply.

HYDRANTS—Continued

Northeast District.

East Sixth and Clackamas, southwest corner, 4-inch supply.
 East Sixth and Halsey, northeast corner, 6-inch supply.
 East Sixth and Beech, northeast corner, 4-inch supply.
 East Sixth and Alberta, southwest corner, 6-inch supply.
 East Seventh and Pacific, northeast corner, 4-inch supply.
 East Seventh and Multnomah, southwest corner, 4-inch supply.
 East Seventh and Tillamook, northeast corner, 4-inch supply.
 East Seventh and Eugene, southwest corner, 6-inch supply.
 East Seventh and Wygant, northwest corner, 6-inch supply.
 East Eighth and East Everett, southeast corner, 4-inch supply.
 East Eighth and Halsey, northeast corner, 6-inch supply.
 East Eighth and Broadway, southwest corner, 4-inch supply.
 East Eighth and Failing, southeast corner, 6-inch supply.
 East Eighth and Mason, southwest corner, 6-inch supply.
 East Eighth and Ainsworth, south side, 3-inch supply.
 East Ninth and East Davis, southwest corner, 4-inch supply.
 East Ninth and Holladay avenue, southeast corner, 4-inch supply.
 East Ninth and Multnomah, southwest corner, 4-inch supply.
 East Ninth and Thompson, southwest corner, 6-inch supply.
 East Tenth and Skidmore, southwest corner, 6-inch supply.
 East Tenth and Alberta, southwest corner, 6-inch supply.
 East Twelfth and East Couch, southeast corner, 4-inch supply.
 East Twelfth and East Davis, southwest corner, 4-inch supply.
 East Twelfth and East Irving, southeast corner, 6-inch supply.
 East Twelfth and Broadway, southwest corner, 4-inch supply.
 East Twelfth and Tillamook, northeast corner, 4-inch supply.
 East Twelfth and Failing, southeast corner, 6-inch supply.
 East Twelfth and Mason, northwest corner, 6-inch supply.
 East Twelfth and Prescott, southwest corner, 6-inch supply.
 East Thirteenth and East Couch, southeast corner, 6-inch supply.
 East Fourteenth and Halsey, southeast corner, 6-inch supply.
 East Fourteenth and Knott, northwest corner, 6-inch supply.
 East Fourteenth and Alberta, southwest corner, 6-inch supply.
 East Fifteenth and Clackamas, southeast corner, 6-inch supply.
 East Fifteenth and Broadway, southwest corner, 4-inch supply.
 East Fifteenth and Tillamook, northeast corner, 4-inch supply.
 East Sixteenth and East Davis, southeast corner, 4-inch supply.
 East Sixteenth and Weidler, northwest corner, 6-inch supply.
 East Sixteenth and Schuyler, northwest corner, 6-inch supply.
 East Sixteenth and Going, southwest corner, 4-inch supply.
 East Seventeenth and Multnomah, southeast corner, 6-inch supply.
 East Seventeenth and Halsey, southeast corner, 6-inch supply.

HYDRANTS—Continued

Northeast District.

East Seventeenth and Broadway, northwest corner, 6-inch supply.
 East Eighteenth and East Everett, southeast corner, 6-inch supply.
 East Eighteenth and Halsey, southeast corner, 6-inch supply.
 East Nineteenth and Oregon, southeast corner, 4-inch supply.
 East Nineteenth and Multnomah, southeast corner, 6-inch supply.
 East Nineteenth and Clackamas, southeast corner, 6-inch supply.
 East Nineteenth and Schuyler, southwest corner, 6-inch supply.
 East Nineteenth and Tillamook, northeast corner, 4-inch supply.
 East Twentieth and East Irving, southwest corner, 4-inch supply.
 East Twenty-first and Multnomah, southeast corner, 6-inch supply.
 East Twenty-first and Clackamas, southeast corner, 6-inch supply.
 East Twenty-first and Halsey, northeast corner, 6-inch supply.
 East Twenty-first and Broadway, southeast corner, 4-inch supply.
 East Twenty-first and Schuyler, southwest corner, 6-inch supply.
 East Twenty-second and Multnomah, southeast corner, 6-inch supply.
 East Twenty-second and Clackamas, southeast corner, 6-inch supply.
 East Twenty-second and Schuyler, southwest corner, 6-inch supply.
 East Twenty-third and Thompson, southwest corner, 6-inch supply.
 East Twenty-third and Going, northwest corner, 6-inch supply.
 East Twenty-third and Wygant, southwest corner, 6-inch supply.
 East Twenty-third and Alberta, southwest corner, 6-inch supply.
 East Twenty-fourth and Davis, northeast corner, 6-inch supply.
 East Twenty-fourth and Multnomah, southeast corner, 6-in. supply.
 East Twenty-fourth and Clackamas, southeast corner, 6-inch supply.
 East Twenty-fourth and Schuyler, southeast corner, 6-inch supply.
 East Twenty-fifth and Oregon, southwest corner, 6-inch supply.
 East Twenty-sixth and Multnomah, southeast corner, 6-inch supply.
 East Twenty-sixth and Clackamas, southeast corner, 6-in. supply.
 East Twenty-sixth and Hancock, northeast corner, 6-inch supply.
 Randall and Nelson, northwest corner, 4-inch supply.
 East Twenty-seventh and Wasco, southeast corner, 6-inch supply.
 East Twenty-eighth and East Couch, northeast corner, 6-inch supply.
 East Twenty-eighth and East Davis, northwest corner, 6-inch supply.
 East Twenty-eighth and East Flanders, northwest cor., 6-in. supply.
 East Twenty-eighth and East Hoyt, southeast corner, 6-inch supply.
 East Twenty-eighth and Holladay southwest corner, 6-in. supply.
 East Twenty-eighth and Broadway, southwest corner, 4-inch supply.
 East Twenty-ninth and East Everett, southeast corner, 6-in. supply.
 East Twenty-ninth and East Irving, southwest corner, 6-inch supply.
 East Thirtieth and East Davis, southeast corner, 6-inch supply.
 East Thirtieth and East Flanders, southwest corner, 6-inch supply.
 East Thirty-first and East Everett, southeast corner, 6-inch supply.
 East Thirty-first and East Glisan, southeast corner, 6-inch supply.
 East Seventy-sixth and East Burnside, northeast cor., 6-inch supply.
 East Seventy-sixth and East Everett, northeast corner, 6-in. supply.
 East Seventy-sixth and East Glisan, northwest corner, 6-in. supply.

Total number of hydrants in northeast district, —.

HYDRANTS—Continued

Lower Albina—Northeast District

Garfield and Beech, southwest corner, 6-inch supply.
 Mallory and Fremont, northwest corner, 6-inch supply.
 Mallory and Beech, southwest corner, 6-inch supply.
 Hendricks and Shaver, northwest corner, 6-inch supply.
 Rodney avenue and San Rafael, southeast corner, 4-inch supply.
 Rodney avenue and Eugene, southeast corner, 4-inch supply.
 Rodney avenue and Russell, southeast corner, 4-inch supply.
 Rodney avenue and Sellwood, southwest corner, 4-inch supply.
 Rodney avenue and Fremont, northwest corner, 4-inch supply.
 Rodney avenue and Fargo, northwest corner, 6-inch supply.
 Cleveland and Prescott, northeast corner, 4-inch supply.
 Margin and Halsey, southeast corner, 6-inch supply.
 Crosby and Holladay, southeast corner, 6-inch supply.
 Crosby and Clackamas, northwest corner, 6-inch supply.
 Crosby and McMillen, northwest corner, 6-inch supply.
 Adams and Holladay avenue, southeast corner, 6-inch supply.
 Larrabee and Holladay avenue, southeast corner, 6-inch supply.
 Larrabee and Hassalo, northeast corner, 6-inch supply.
 Larrabee and Halsey, northeast corner, 6-inch supply.
 Larrabee and McMillen, northeast corner, 6-inch supply.
 Larrabee and Cherry, northeast corner, 6-inch supply.
 Larrabee and Broadway, northeast corner, 6-inch supply.
 Larrabee, 200 feet north of Dixon, 6-inch supply.
 Larrabee and Dixon, northeast corner, 6-inch supply.
 Larrabee and Dupont, northeast corner, 6-inch supply.
 Benton and Clackamas, southeast corner, 4-inch supply.
 Wheeler and Clackamas, southwest corner, 4-inch supply.
 Ross and Cherry, northeast corner, 4-inch supply.
 Ross and Dixon, southwest corner, 4-inch supply.
 Williams avenue and Cherry, northeast corner, 4-inch supply.
 Williams avenue and Hancock, northwest corner, 6-inch supply.
 Williams avenue and Tillamook southwest corner, 6-inch supply.
 Williams avenue and Page, southwest corner, 6-inch supply.
 Williams avenue and Russell, southwest corner, 6-inch supply.
 Williams avenue and Sellwood, southwest corner, 6-inch supply.
 Williams avenue and Fremont, northwest corner, 4-inch supply.
 Williams avenue and Morris, southwest corner, 6-inch supply.
 Williams avenue and Failing, southeast corner, 4-inch supply.
 Williams avenue and Cook, northeast corner, 4-inch supply.
 Williams avenue and Mason, southwest corner, 4-inch supply.
 Williams avenue and Alberta, northwest corner, 6-inch supply.
 Williams avenue and Sumner, northwest corner, 6-inch supply.

HYDRANTS—Continued

Lower Albina—Northeast District

Williams avenue and Emerson, northwest corner, 6-inch supply.
 Williams avenue and Killingsworth, southeast corner, 6-inch supply.
 Williams avenue and Highland, southwest corner, 4-inch supply.
 Vancouver avenue and Russell, southwest corner, 6-inch supply.
 Vancouver avenue and Knott, southwest corner, 6-inch supply.
 Vancouver avenue and Stanton, northwest corner, 6-inch supply.
 Vancouver avenue and Fargo, northwest corner, 4-inch supply.
 Vancouver avenue and Beech, northwest corner, 4-inch supply.
 Shaver and Vancouver avenue, northwest corner, 4-inch supply.
 Gantenbein avenue and Russell, southeast corner, 6-inch supply.
 Gantenbein avenue and Stanton, northwest corner, 6-inch supply.
 Haight and Blandina, northwest corner, 4-inch supply.
 Commercial and Knott, southeast corner, 6-inch supply.
 Commercial and Stanton, northwest corner, 6-inch supply.
 Commercial and Morris, northwest corner, 4-inch supply.
 Commercial and Beech, southeast corner, 4-inch supply.
 Commercial and Shaver, southeast corner, 6-inch supply.
 Commercial and Skidmore, northeast corner, 6-inch supply.
 Killingsworth and Kerby, southeast corner, 6-inch supply.
 Star and Russell, southwest corner, 3-inch supply.
 Borthwick and Knott, northwest corner, 4-inch supply.
 Borthwick and Monroe, northwest corner, 4-inch supply.
 Borthwick and Fremont, northeast corner, 4-inch supply.
 Borthwick and Shaver, southeast corner, 4-inch supply.
 Mason and Borthwick, southeast corner, 6-inch supply.
 Albina avenue and Goldsmith, northeast corner, 6-inch supply.
 Albina avenue and Russell, southwest corner, 4-inch supply.
 Albina avenue and Sellwood, southwest corner, 4-inch supply.
 Albina avenue and Morris, southeast corner, 6-inch supply.
 Albina avenue and Humboldt, southeast corner, 6-inch supply.
 Albina avenue and Killingsworth, southeast corner, 6-inch supply.
 200 feet south of Albina avenue, east side of River street, 6-in. supply.
 100 feet south of Albina avenue, east side of River street, 6-in. supply.
 River and Albina avenue, southeast corner, 4-inch supply.
 River and Albina avenue, northeast corner, 6-inch supply.
 River and Lewis, northeast corner, 6-inch supply.
 River and Clark, northeast corner, 6-inch supply.
 River and Harding, northeast corner, 6-inch supply.
 River and Randolph, northeast corner, 6-inch supply.
 River and Nesmith, southeast corner, 4-inch supply.
 River and Marion, southeast corner, 4-inch supply.
 Loring and Clark, southeast corner, 4-inch supply.

HYDRANTS—Continued

Lower Albina—Northeast District

Loring and Randolph, southeast corner, 4-inch supply.
 Loring and Randolph, northeast corner, 6-inch supply.
 Railroad and Randolph, southwest corner, 4-inch supply.
 Railroad and Russell, northeast corner, 4-inch supply.
 Goldsmith and Randolph, northwest corner, 4-inch supply.
 Goldsmith and Harding, southwest corner, 4-inch supply.
 Mississippi avenue and Russell, southeast corner, 4-inch supply.
 Mississippi avenue and Knott, southeast corner, 6-inch supply.
 Mississippi avenue and Stanton, southeast corner, 4-inch supply.
 Mississippi avenue and Morris, northwest corner, 6-inch supply.
 Mississippi avenue and Fremont, northeast corner, 4-inch supply.
 Mississippi avenue and Beech, southeast corner, 4-inch supply.
 Mississippi avenue and Shaver, northeast corner, 4-inch supply.
 Mississippi avenue and Skidmore, northeast corner, 4-inch supply.
 Delay and Russell, northwest corner, 4-inch supply.
 Delay and Morris, northeast corner, 6-inch supply.
 Killingsworth and Michigan, southeast corner, 6-inch supply.
 Missouri avenue and Fremont, northeast corner, 4-inch supply.
 Missouri avenue and Failing, southeast corner, 4-inch supply.
 Missouri avenue and Mason, southeast corner, 4-inch supply.
 Missouri avenue and Prescott, southeast corner, 4-inch supply.
 Killingsworth and Minnesota, southeast corner, 6-inch supply.
 Montana avenue and Beech, southeast corner, 4-inch supply.
 Maryland and Prescott, northwest corner, 6-inch supply.
 Killingsworth and Maryland, southeast corner, 6-inch supply.
 Maryland and Simpson, southeast corner, 6-inch supply.
 Maryland, 200 feet north of Simpson, 6-inch supply.
 Colonial and Shaver, southeast corner, 4-inch supply.
 Portland boulevard and Greeley, northwest corner, 6-inch supply.
 Portland boulevard and Villard, northwest corner, 6-inch supply.
 Portland boulevard and Knowles, northwest corner, 6-inch supply.
 Pippin and Knowles, southeast corner, 6-inch supply.
 Pippin and Oatman avenue, southeast corner, 6-inch supply.
 Dawson and Dwight, northeast corner, 6-inch supply.
 Fisk and Harvard, southeast corner, 6-inch supply.
 Fisk and Amherst, southeast corner, 6-inch supply.
 Fisk and Oberling, southeast corner, 6-inch supply.
 Fisk and Dawson, southeast corner, 6-inch supply.
 Fisk and Vanderbilt, southeast corner, 6-inch supply.
 Fisk and Drew, southeast corner, 6-inch supply.
 Fisk and Houghton, southeast corner, 6-inch supply.
 Hodge and Dawson, northeast corner, 6-inch supply.

HYDRANTS—Continued

Lower Albina—Northeast District

Portsmouth and Howard, southwest corner, 6-inch supply.
 Amherst and Portsmouth avenue, southwest corner, 6-inch supply.
 Syracuse and Portsmouth avenue, southwest corner, 6-inch supply.
 Oberlin and Portsmouth avenue, southwest corner, 6-inch supply.
 Portsmouth and Dawson avenue, southwest corner, 6-inch supply.
 Willis boulevard and Van Houten, southwest corner, 6-inch supply.
 Portsmouth and Willis, northwest corner, 6-inch supply.
 Houten and Van Houten, southeast corner, 6-inch supply.
 Edwards and Van Houten, southeast corner, 6-inch supply.
 Walker and Van Houten, southeast corner, 6-inch supply.
 Total number of hydrants in northeast district, 266.
 Total number of hydrants in city, 1274.

ANNUAL REPORT

—OF—

WATER BOARD

Portland, Oregon, January 12, 1909.

The Water Board of the City of Portland, Oregon.

Gentlemen: The following is a statement of the property, implements and material in your possession or control pertaining to the water works on December 31, 1908, together with the condition and approximate value thereof:

Real Property—	Acres.
Block 32, Seventh and Lincoln streets, Portland.....	1.00
Block "K," lots 6 and 7 and part of lot 5, Greenway Addition..	.51
Block 150, Fourth and Market streets, Portland.....	.25
Block 139, lot 8, East Portland, site for office.....	.11
Tract foot of Sherman street, Portland.....	.50
Tract foot of Stevens street, Portland.....	.60
Tract at Milwaukie and Powell streets, Portland.....	2.76
Tract near City Park	63.10
Two tracts for water tanks, Portland Heights.....	.08
One tract for water tank, Willamette Heights.....	.06
Block 13, Albina district, Portland.....	1.00
Part of block 26, Albina district, Portland.....	.17
Part of block 6, Maegly Highland, Albina.....	.10
Part of block B, Patton tract, Albina.....	.90
Tract East Twentieth and Prescott streets, Vernon standpipe..	2.34
Tract near Palatine pump, Multnomah County.....	21.00
Tract for high service reservoir, Mt. Tabor, Multnomah County	5.75
Tract for low service reservoir, Mt. Tabor, Multnomah County	10.00
Tract for standpipe near Lusteds.....	.50
Tracts near headworks and pipe line in Clackamas and Multnomah Counties	4,320.00
Total number of acres	4,430.73

WATERWORKS.

Bull Run Gravity System—

Headworks on Bull Run River, conduit thence to City Park, Portland, including two submerged pipes across the Willamette River, 31 miles altogether; two reservoirs at Mount Tabor and two at City Park; water power pumps for supplying Portland Heights and Willamette Heights, with one electric pump as auxiliary; also one water power pump at Reservoir No. 2 for supplying water to higher elevations on Mount Tabor. This system is in fairly good condition.

Distribution System—

Two hundred and fifty-two miles of water mains, ranging from thirty to four inches in diameter, and sixty-four miles of smaller pipes. Total three hundred and sixteen miles. All in serviceable condition.

Pumping Plants—

Palatine pumping station, on the Willamette River, five miles above the city, and high service pumping station at Seventh and Lincoln streets, which formerly supplied all the water for that portion of the city west of the river. These pumps have never been used since the gravity system was completed January 1, 1895, but they are kept in order and ready to supply water in case of accident to the Bull Run conduit; Albina pumping station supplying water to a portion of that district pumped from wells, and also from the Bull Run main, was discontinued April 1, 1907, but is held in readiness in case of emergency, pumping station in City Park supplying water to Portland Heights and Willamette Heights; former pumping station at Milwaukie and Powell streets, which originally supplied water pumped from wells to the East Portland district, and now used as a warehouse. Here are stored the pumps formerly used, and also the pumps purchased from the McGuire Company and Mount Tabor Water Company, which at one time supplied water to a portion of the East Portland district. All these pumps are more or less worn by use, but they are in serviceable condition.

During the year 1903, soon after the present charter took effect, the above described property (excepting extensions of mains and improvements to reservoirs made since that time) was appraised at \$6,516,000.00 by the appraisers employed by the city to appraise all of its property.

Since then the Water Board has added to said appraised value \$1,284,132.85 by expenditures for extending distributing mains and improving reservoirs, \$4,500.00 for purchase of site for branch office of East Portland, \$2,000.00 for purchase of site for Vernon stand-pipe, \$5,859.00 for rebuilding Albina pump station, \$49,111.21 for purchase of Mount Tabor, Piedmont and Woodlawn waterworks, \$9,335.30 for a 600,000-gallon reservoir for Portland Heights, and \$3,696.21 for

survey work and land for reservoirs for new pipe line conduit. This would make the present value \$7,874,634.57.

It is possible that the increase in the value of the real property will offset whatever depreciation there may have been in the water mains, etc.

During the year 1908 the cash receipts for water sold amounted to \$606,259.00. After deducting \$160,000 for interest on the \$3,150,000 water bonds, \$63,000 for the sinking fund, \$9,335.30 for reservoir for Portland Heights, \$3,696.21 for survey work and land for reservoirs for new pipe line conduit and \$96,607.91 for operating and maintaining the water works and purchase and setting of meters (latter item amounting to \$11,411.76), the balance, to be used for extending mains and other improvements, was \$273,619.58. This amount would pay about 3½ per cent interest on the \$7,874,634.57.

MATERIAL FOR MAINS.

Cast iron pipes, 1330.7 tons @ \$34.00.....	\$ 45,243.80
Steel riveted pipe, 42-inch, 250 feet @ \$3.00.....	750.00
Submerged pipe, 24-inch, 72 feet @ \$8.50.....	612.00
Kalamein pipe, 12-inch, 144 feet @ \$1.75.....	252.00
Wrought iron pipe, 6 and 8-inch, 1000 feet @ 10c (old)....	100.00
Wrought iron pipe, 2 and 2½-inch, 1750 feet @ 3c (old)...	52.50
Cast iron specials, 375,430 pounds @ 3½c.....	13,140.05
Kalamein specials, 1,035 pounds @ 6c.....	62.10
Gates, 90	4,561.15
Patent gates, 231.....	7,363.75
Curb cock covers, 277.....	44.32
Curb cock covers, with boxes, 50.....	15.50
Gate frames and covers, 28.....	145.11
Gate hand wheels, 10.....	2.80
Gate boxes, 35.....	14.70
Curb cock boxes, 275.....	64.25
Pig lead, 25,850 pounds @ \$4.80 per cwt.....	1,240.80

Material for extending mains, also in good condition...\$ 73,664.83

IMPLEMENTS AND PORTABLE PROPERTY.

Meters—

¾-inch, 5,884 @ \$ 7.00.....	\$ 41,188.00
¾-inch, 310 @ 10.00.....	3,100.00
1-inch, 234 @ 14.00.....	3,276.00
1½-inch, 5 @ 30.00.....	150.00
2-inch, 42 @ 48.00.....	2,016.00

4 -inch, 1 @ 150.00..... 150.00

6,476

Tools and material at tool house..... 956.13

\$ 50,836.13

Tools, etc.	No.	Value.
Anvils	7	\$ 28.25
Alum, barrels	5	20.00
Augers	12	12.00
Augers, post	3	4.00
Auger bits	15	5.80
Axes	21	21.00
Axes, hand	12	8.00
Adze	3	3.25
Brick	6000	50.00
Brush hooks	4	4.00
Brushes, horse	3	.50
Brushes, paint	11	4.50
Brushes, wire	3	1.00
Bars, crow	18	13.50
Bars, draw	3	2.75
Bars, claw	6	4.25
Bars, chisel	14	13.50
Bars, steel	7	5.60
Bars, tamping	50	25.00
Bars, pinch	4	4.00
Bellows, hand	1	.50
Bands, pounds	215	56.00
Bands, 33, 35 and 42-inch.....	15	199.00
Bands, steel	6	12.00
Bolts, concrete, pounds.....	150	3.00
Bolts, machine, pounds.....	405	20.00
Bit, extension	3	2.25
Boxes, tool	10	20.50
Boxes, tool wagon	2	50.00
Blowers	2	36.00
Blocks, chain	10	100.00
Blocks, woden, single	13	17.00
Blocks, iron, single	1	3.00
Blocks, wooden, double	18	27.50
Blocks, snatch	3	16.00
Braces and bits, sets.....	6	13.00
Bits, sets	9	4.50
Brooms, cane	14	4.00

Brooms, corn	7	2.25
Brooms, hair	2	3.00
Buggies	2	55.00
Belting, feet	50	25.00
Boots, rubber, pairs.....	5	20.00
Cable, feet	650	92.50
Cans, oil	6	1.30
Cement, barrels	5½	14.30
Canvas, square yards	166	22.50
Chairs	6	6.00
Carts, tool	3	105.00
Carts, dump	1	50.00
Carts, pipe	3	40.00
Chain, feet	118	11.00
Calking irons, etc., pounds.....	308	35.30
Climbers, pole, pairs	6	6.50
Chisels, cold, pounds.....	136	17.15
Chisels, hammer, pounds.....	13	7.00
Chisels, wood	6	4.00
Chisels, asphalt	4	5.60
Clamps, pipe, pounds.....	210	20.50
Clamps, gasket	22	7.75
Clamps, cable	25	2.50
Coal, blacksmith, pounds.....	300	3.00
Coal, furnace, pounds.....	10,300	57.50
Candlesticks	4	1.00
Corporation cocks, ½-inch	84	42.00
Corporation cocks, ¾-inch	56	39.76
Curb cocks, ½-inch	15	7.50
Curb cocks, ¾-inch	30	18.90
Curb cocks, 1-inch	18	16.25
Cars, push	1	10.00
Cutters, pipe	23	53.50
Clocks	1	4.00
Cooking utensils	—	50.00
Dies, pipe sets	4	40.00
Dies, blacksmith sets	1	10.00
Dies, miscellaneous	6	13.00
Derricks	6	89.00
Dericks, gearing	3	110.00
Derricks, tripods	4	23.00
Desks	3	15.00
Drills, hand, pounds	102	25.00
Draw knife	2	1.50
Dollys	3	7.00

Donkey engines	1	300.00
Ells, pounds	40	8.00
Fittings, malleable, pounds	760	116.75
Fittings, brass, small, pounds.....	10	2.50
Forges	8	55.00
Forks	5	3.50
Furnaces, lead	10	89.00
Furnaces, wagon	2	65.00
Files	35	11.40
Feather Dusters	3	3.00
Gauges	3	4.50
Gauges, steam	5	18.00
Gauges, water-glass	7	8.00
Gauges, test	1	5.00
Guards, wood	24	15.00
Grindstones	6	11.50
Gong Signal	2	6.00
Hammers, sledge	29	47.00
Hammers, hand	21	18.00
Hammers, machinists'	5	5.00
Horses	8	805.00
Horse rasps	2	1.25
Horse covers	6	11.00
Horse blankets	6	10.50
Horness sets, single.....	7	75.00
Harness sets, double	2	38.00
Hose, feet	850	235.00
Hydrant spanners	8	6.75
Iron, feet	96	3.00
Keys, valve	59	108.00
Keys, stop cock.....	48	48.00
Keys, ratchet	1	20.00
Lathe	1	20.00
Lathe, chuck	1	5.00
Lathe, tools	3	4.50
Ladders, step	5	15.00
Ladles, lead	19	30.00
Lamps	12	10.00
Lanterns	69	39.75
Lawn mowers	1	6.00
Lead, sheet lbs.....	73	4.80
Lead connections, lbs.....	130	11.75
Lead runners	7	5.50
Levels, carpenter	7	7.80
Lumber, rough, feet.....	4600	59.50

Lumber, dressed, feet.....	200	4.00
Maul, spike	4	7.50
Mattocks	14	14.50
Mops	3	1.00
Nuts and washers, lbs.....	75	3.00
Nails, kegs	10	40.00
Nails, lbs.	50	1.50
Oil, gallons	10	2.25
Oil, barrels	2	50.00
Oil, sets	2	25.00
Pots, lead	14	54.00
Pots, tar	30	8.00
Pipe, feet	600	56.00
Pails, galvanized	25	7.25
Paper, tar, rolls.....	40	80.00
Packing, rubber, lbs.....	20	10.00
Packing, hemp, lbs.....	50	25.00
Planes, carpenter	3	2.50
Paint, metallic, barrels.....	$\frac{1}{2}$	12.00
Picks	210	168.50
Plugs, steel	12	1.50
Pumps, hand	8	175.00
Fulleys, wood	2	5.00
Posthole fence diggers.....	2	3.00
Polish, machine, lbs.....	3	.75
Polish, stove, cans.....	3	.60
Pump, steam	1	150.00
Rakes	8	4.50
Rods, lbs.	1000	18.00
Rod iron, lbs.....	800	25.00
Rollers	3	15.00
Rope packing, lbs.....	500	17.50
Rope, manila, lbs.....	190	30.00
Ratchets	3	12.00
Resin, barrels	2	15.00
Rowboats	2	5.00
Riddles, gravel	2	1.50
Steady rest, blacksmith.....	1	2.50
Steel, soft, lbs.....	1700	85.00
Steel, twisted, old, lbs.....	4000	50.00
Steel, tool, lbs.....	375	37.50
Seed sower	1	3.00
Scrap iron, lbs.....	24,025	240.25
Scrapers, flue	3	3.00
Screws, wood	1	2.00

Saws, hand	16	27.00
Saws, crosscut	3	11.00
Saws, sets	3	1.50
Saws, hack	1	2.50
Scales, weighing	2	25.00
Soldering irons	2	2.00
Screws, jack	8	19.00
Screw drivers	7	5.30
Scythes	6	6.50
Scythe handles	2	1.50
Shovels	214	141.00
Smoothers, cement	2	1.50
Smoothers, asphalt	20	20.00
Stoves, oil	1	4.00
Stoves, cook	1	15.00
Stoves, Sibley	4	10.00
Squares, carpenter	3	3.00
Stocks and dies, sets	9	123.00
Stocks, ratchet	1	5.00
Staples, kegs	$\frac{1}{2}$	1.50
Surveying and electrical instruments	21	543.00
Straight edge	1	.50
Tar boilers	5	50.00
Tar tanks	5	50.00
Tar tongs	28	15.00
Tar, barrels	1	7.00
Tampers	100	51.00
Terra cotta pipe, feet	24	7.00
Tapping machines	7	940.00
Taps and dies, sets	1	3.00
Telephone boxes, iron	2	10.00
Telephone brackets	200	3.50
Telephone repair tools, sets	3	15.00
Telephone insulators	150	3.00
Tongs, chain	20	71.50
Tongs, extension	3	3.00
Tongs, forge, pairs	25	24.00
Tools, bench, lbs.	125	27.50
Trowels	6	4.75
Trucks, hand	7	30.00
Timber hooks	3	4.00
Thermometers	4	2.50
Tanks, oil	6	30.00
Tanks, water	3	125.00
Tube blower	3	4.00

Tube scraper	3	.30
Tape lines	1	1.75
Timber jacks	2	14.50
Torches, plumbers'	1	3.00
Tables	1	2.00
Vises	16	115.00
Wagons	9	665.00
Waste, cotton, lbs.	200	22.00
Wheelbarrows, iron	9	16.00
Wheelbarrows, wood	1	.75
Wire, common, coils	2	3.00
Wire, common, lbs.	100	5.00
Wire, barb, feet	100	2.50
Wrenches, monkey	31	25.25
Wrenches, stillson	14	14.25
Wrenches, trimo	13	17.50
Wrenches, socket	10	6.00
Wrenches, engine	30	8.00
Wrenches, alligator	2	1.00

Total of implements and portable property.....\$60,062.54

The foregoing inventory shows the approximate value of pipes and other materials available for extending mains, etc., to be \$73,664.83.

It also shows the present approximate value of meters to be \$50,836.13 and of implements, etc., \$9,226.41. Total, \$60,062.54.

On December 31, 1907, the valuation of meters was \$62,668.84 and of implements, etc., \$9,094.14. Total, \$71,762.98.

The decrease during the year, after deductions for depreciation, was \$11,700.44. Adding this amount to the cash disbursements, \$96,607.91, shows that the cost of operating and maintaining the waterworks during the year 1908 was \$108,308.35, which is 17.8 per cent of \$606,259, cash received for water sold; an increase of .5 per cent. The interest on the bonds was 26.4 per cent, and Sinking Fund, 10.4 per cent, leaving 45.4 per cent net profit available for alteration, improvement and extensions of the waterworks.

The total number of dwellings, stores and other places using and paying for water during the month of December, 1907, was 29,966. During December, 1908, the number was 33,142, an increase of 3,176, or 10.6 per cent. due to the growth of the city.

Of the above 33,142 places using and paying for water during December, 1908, 6,283, equivalent to 19 per cent., were supplied through meters.

Recapitulation.

Real property and gravity distributing and pumping systems	\$7,874,634.57
Material on hand for extending mains.....	73,664.83
Meters, tools, etc., in hands of operating department....	60,062.54
Total	\$8,008,361.94

All of the above has been acquired by the sale of \$3,150,000 water bonds and by the net receipts for water sold during the twenty-two years that the City has owned and operated the waterworks. The interest on the bonds, amount in the Sinking Fund and the cost of operation and maintaining the waterworks has been paid out of the receipts.

There has been no tax on property for water purposes.

The following is a summary of the earnings, receipts and disbursements during the year 1908:

Receipts.

Gross earnings of the waterworks.....	\$656,259.00
Deduct due from City for water for fire protection, etc.	50,000.00
Cash receipts of waterworks.....	\$606,259.00
Deduct operating expenses and repairs.....	108,308.35
Balance	\$497,950.65
Add decrease in meters, tools, etc.....	11,700.44
Net income from waterworks.....	\$509,651.09
Deduct interest on bonds.....	\$160,000.00
Deduct paid to Sinking Fund.....	63,000.00—\$223,000.00
Total	\$286,651.09

Disbursements.

Extending mains	\$158,160.12
Reservoirs, construction and repairs.....	17,068.38
Bull Run Conduit No. 2.....	3,696.21—\$178,924.71
	\$107,726.38
Funds on hand December 31, 1907.....	3,242.34
Funds on hand December 31, 1908.....	\$110,968.72

The accompanying statement for each year shows that during the twenty-two years that the City has owned and operated the waterworks the receipts and expenditures by the Water Department have been as follows:

Receipts.

Gross earnings by the waterworks.....	\$7,348,943.00
Deduct due from City for water for fire protection, sprinkling, etc.....	723,589.35
Cash receipts from waterworks.....	\$6,625,353.65
Deduct operating expenses and repairs.....	1,231,682.01
Balance	\$5,393,671.64
Deduct for meters, tools, etc., on hand....	60,062.54
Net income from waterworks.....	\$5,333,609.10
Deduct interest on bonds.....	2,487,124.17
Balance	\$2,846,484.93
Deduct for Sinking Fund.....	157,500.00
Net earnings used for extending mains and construction	\$2,688,984.93
Water bonds sold.....	\$2,900,000.00
Premium on bonds	222,200.70— 3,122,200.70
Total	\$5,811,185.63

Expenditures.

Waterworks purchased	\$771,833.41
Additional pumps and force mains.....	279,046.13
Total	\$1,050,879.54
Deduct property sold.....	4,560.48
Balance	\$1,046,319.06
Extending distributing mains.....	1,765,322.26
Bull Run gravity system.....	2,884,879.38
Bull Run Conduit No. 2.....	3,696.21—\$5,700,216.91
Balance in Water Fund December 31, 1908.....	\$110,968.72

Respectfully,

FRANK T. DODGE,
SUPERINTENDENT.

CONSTRUCTION DEPARTMENT, 1908.

Engineer's Office—Water Department.

Portland, Oregon, January 12, 1909.

The Water Board, City of Portland, Oregon.

Gentlemen: I respectfully submit for your consideration the following report of construction operations under my direction during the year ending December 31, 1908.

Extending Mains—

During the year the work of laying mains has not kept pace with the demands for an increased supply in rapidly growing districts of the city. Particularly has this been true of the entire East Side district: It was not until July that the Supreme Court decision was rendered sustaining the Charter amendments, including those affecting the manner of laying water mains. Since that date efforts have been made to begin the work of laying mains and assessing the cost of same, in the manner prescribed for building sewers, but this system has not yet been fully inaugurated, owing in part to delays incident to the establishment of assessment districts. Since July 1st the only mains laid have been those authorized prior to the court decision.

The large mains laid during the year are as follows:

5744 feet 12-inch Converse Lock Joint Pipe, Reservoir No. 4 to Montgomery Street Drive.

2431 feet of 12-inch C. I. Main, Montgomery Street Drive to Portland Heights Reservoir.

582 feet 12-inch C. I. Main, Third Street, Glisan to Hoyt, and on Hoyt, Third to Fourth Streets.

1170 feet 16-inch C. I. Main, Stark and Burnside Streets, Tenth to Fourteenth streets.

Total mains 12-inch in diameter and over, 9927 feet, 1,880 miles.

Total mains of all sizes laid during the year 1908.....19,620 miles

Total mains relaid with larger sizes..... 4,812 miles

Net increase in mileage during the year.....14,808 miles

West Side District.....2,806 miles

East Side District.....5,390 miles

Albina District6,612 miles—14,808 miles

Total expenditure during year acct. extending mains, \$158,160.12.

The accompanying table shows the total mains of all sizes now in use to be as follows:

Mains under 4 inches in diameter..... 63,900 miles

Mains 4 inches in diameter and over.....252,329 miles—316,229 miles

Total mains of all sizes, including Palatine mains, but not including Bull Run Conduit:

West Side	99,676 miles
East Side	119,689 miles
Albina	96,864 miles—316,229 miles
Bull Run Conduit, headworks to City Park.....	31,085 miles
Total	347,314 miles

During that portion of the year when distribution mains were being laid at the expense of the Water Fund numerous petitions were presented, and estimates were made covering the same, aggregating 110 in number, and calling for 32 miles of mains, ranging from 6-inch to 12-inch in diameter, and estimated to cost \$219,210. Many of these petitions were denied and others more meritorious were deferred until later in the season, when funds became available for the desired extensions.

As has already been shown, but few mains of large size have been laid during the year, the principal item in the list being the 12-inch force main, 8,175 feet in length, from the City Park Power House to the Portland Heights Reservoir in Greenway Addition. The 582 feet of 12-inch main in Third and Hoyt Streets forms a portion of reinforcement main planned to connect the 16-inch main in Second street with the 20-inch main in Fourteenth street, the part indicated having been laid during the year in advance of the permanent pavement. The 16-inch main laid in Stark and Burnside streets, between Tenth and Fourteenth streets, was also planned during 1907.

The large mains mentioned in the report for 1907 as having been recommended by the National Board of Fire Underwriters, amounting to 24,440 feet of 12-inch, 16-inch and 20-inch mains, and estimated to cost \$82,720, were not included in the work undertaken during the year 1908, it having been decided by the Water Board to use all available funds in extending smaller mains into the residence districts where the supply was inadequate.

The following are the mains referred to above, action upon which was deferred during the year 1908:

	Length. Feet.	Diam. Main.
Chapman Street, Jefferson to Washington (should be 16-inch)	2000	12-inch
Seventh and College to First and Hooker.....	4570	12-inch
Kearney (Lovejoy), Fourteenth to Nineteenth.....	1300	12-inch
East Stark, Twenty-eighth to First.....	7050	16-inch
East First, Holladay to Hancock.....	2400	16-inch
East Twelfth and Division Streets to Grand Avenue and Market Street.....	3950	16-inch
Thurman, Nineteenth to Twenty-first.....	1040	20-inch

Twenty-first, Thurman to Colton.....	1830	20-inch
Colton, Twenty-first to North Front.....	300	20-inch

Total length24,440

Total estimated cost, \$82,720.

In addition to the foregoing there are certain mains covering a district which Chief Campbell, of the Fire Department, in a communication dated January 24, 1907, asked to have reinforced for fire protection purposes. An estimate of the cost of these mains was submitted February 28, 1907, and approved by the Water Board March 13, 1907. Only a portion of these mains have since been laid, leaving the following unprovided for, viz:

	Length Feet.	Diam. Main.
Twelfth Street, Jefferson to Davis Street.....	3000	12-inch
Thirteenth Street, Jefferson to Hall and thence along Hall, Twelfth and College to intersection of Sev- enth and College	3560	12-inch
Tenth, Eleventh and Twelfth Streets, Jefferson to Hall in place of present 4-inch mains.....	5460	8-inch
Fifth Street, Morrison to Alder.....	260	12-inch

Total length12,280

Total estimated cost, \$25,105.

Since July last no new mains have been ordered by the Water Board to be laid at the expense of the Water Fund, the intention being to inaugurate at once the new system of laying mains at the expense of property benefited. Already petitions have been filed by property owners for mains aggregating 8 6-10 miles in nineteen streets and estimated to cost \$63,415.

Besides the foregoing the Board has recommended the laying of mains in ten streets, aggregating a length of 30,711 feet, in advance of the hard surface pavements ordered by the Council and petitioned for by property owners.

So far plans and estimates for mains in eight streets, aggregating five miles and estimated to cost \$55,903.85, have been prepared by the department and submitted to the City Engineer for his approval, the Charter requiring that all work of this character should be done in the name of the City Engineer and be approved by him.

Portland Heights Reservoir—

In 1907 Lots 5 and 6, Block K, Greenway Addition, were secured as a site for this reservoir. In March, 1908, bids were received for the construction of a 600,000-gallon concrete lined reservoir 75 feet in diameter and 18 feet deep at elevation 865, and on April 1 a contract was awarded to Giebisich & Joplin for the sum of \$8,933. The contract was completed September 5 and the reservoir has been in

use since that date. The total expenditure on account of this work, including reservoir contract, together with the gates, pipe connections and fences around the reservoir basin and around the grounds, not included in the original contract, amounts to \$10,139.54.

The 12-ich pipe required for the force main connecting the City Park power house with the Greenway reservoir was purchased during the year 1907 and was laid by Water Department employes during the past season in time for use in testing and filling the completed reservoir.

Council Crest Supply—

In March, 1908, a number of property owners interested in the district adjacent to the summit of Council Crest petitioned the Water Board to install a water supply service for their district. On April 10 the Water Board, having received from this office an estimate of the cost of the required plant, authorized the necessary construction, "provided the property owners will furnish right of way for pipe and site for tank free of charge."

The conditions imposed were finally met by interested parties and on October 13 the Water Board voted to accept the property tendered, viz., a reservoir site 100x100 feet, situated about 200 feet northwesterly from the summit of Council Crest, and the pipe line right of way, 20 feet in width, leading to and from said reservoir site. On November 2 the Superintendent was directed to advertise for bids for furnishing a steel standpipe, pump and electric motor and pump house. Bids for stand pipe and pump and motor were opened December 1 and a contract awarded to the Willamette Iron & Steel Works for constructing the stand pipe for \$1,862.25, the stand pipe to be 20 feet in diameter and 40 feet high, elevation 1,096, with a storage capacity of 60,000 gallons.

On December 8 a contract was awarded to Fairbanks, Morse & Co. for furnishing at the site of the Greenway reservoir one 220,000-gallon pump with an electric motor of 15 H. P., for the sum of \$822.

No bids having been received on December 1 for the concrete pump house at the Greenway reservoir, the work was readvertised and on the 8th inst. a contract for same was awarded to Palmer & Ellison for the sum of \$1,057.

The foregoing contracts call for the completion of the work on or before March 1, 1909.

Reservoirs Nos. 1 and 2, Mt. Tabor—

During the early part of the Summer of 1907 some difficulty was experienced with the higher levels of the East Side high service district, which was traced to collections of air which entered the main at the gate chamber at Reservoir No. 1 and restricted the flow

to some extent. By a slight change at the gate-house the amount of air entering the pipes has been greatly reduced, and this has resulted in an increased efficiency of the service. This improvement was effected by cutting an opening through the wall of the weir chamber leading directly into the reservoir basin. By this means the air with which the water is impregnated in falling over the weir is enabled to escape before entering the pipes.

The expense connected with this work was small, but there yet remains the placing of a permanent gate in the wall, by means of which the flow through the new opening can be regulated.

In the list of expenditures proposed for the year 1908 there was an item calling for \$26,600 for relining Reservoir No. 2. It is proposed to place a layer of concrete on top of the present brick lining, which is not altogether impervious to water, and thus prevent the waste which has been occurring at this point. Heretofore this leakage has not been a matter of importance, but it is now advisable to cut off this waste. This work should be undertaken during the coming season.

Reservoirs Nos. 3 and 4, City Park—

These reservoirs have been in constant use since they were relined in 1904.

The work of placing a concrete lining in the drainage tunnels under the sliding land west of the City Park has been in progress during the past five months and should be continued during the coming year. The cost of this work as estimated in 1907 equals \$18,600, of which amount between three and four thousand dollars has already been expended, leaving a balance of \$15,000 as the estimated amount required to complete the work.

The drainage from these tunnels has been observed at intervals and has been found to vary with the season, as in former years, ranging from a minimum of 15,000 gallons to a maximum of 108,000 gallons per day, and averaging about 30,000 gallons per day.

Surveys of the sliding land tract have been made once a quarter during the year. Total number of stations observed, 250. Number of measurements taken, 1,000.

Average movement during the year at 46 stations situated along central portion of original sliding ground, 0.468 inches, or a little less than two-thirds of the movement observed during the year 1907.

Total expenditure during the year account reservoirs, including Portland Heights reservoir, relining of tunnels and survey of sliding land west of City Park, \$17,068.38.

Consumption of Water—

During the month of June, and also in July, there occurred a succession of warm days when the use of water for domestic pur-

poses and for lawn sprinkling reached the maximum observed during the season. A study of the conditions then observed was made early in August, and the diagram then prepared is attached hereto. (See page 430 for diagram.) The computations then made were based upon the record of the flow through the 24-inch main supplying the Highland and Peninsular districts, this record having been obtained from the automatic meter register attached to the main near Reservoir No. 1.

An examination of this diagram reveals several interesting facts, particularly as regards the use of water during sprinkling hours. While these observations apply directly to but a single district, yet it is believed that the results obtained can be assumed to be approximately correct for the entire city.

The estimate of population supplied is believed to be a conservative one, as it is based on the number of service connections multiplied by 5.3, the multiplier used for similar computations in the City of Rochester, N. Y.

July, 1908—Estimated population supplied East Side High

Service District—8,744 services multiplied by 5.3..... 46,300

July, 1908—Estimated population supplied in entire city—32,226

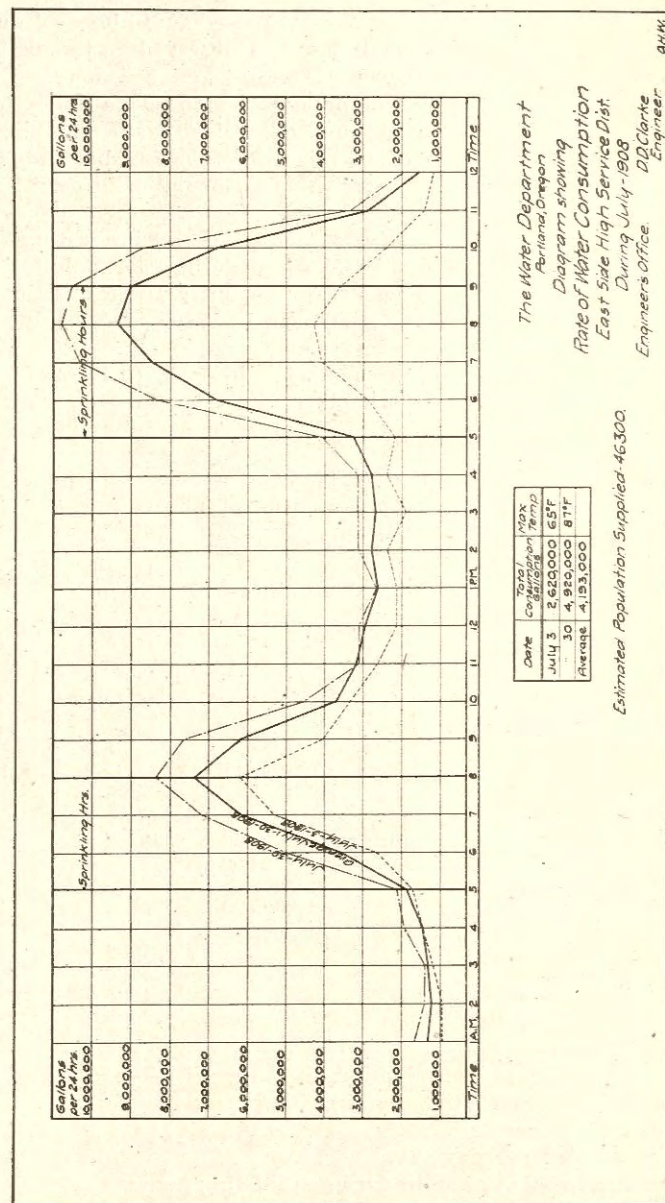
services multiplied by 5.3..... 170,800

The diagram shows the consumption to have been as follows:

	Date, 1908.	Total Gallons Per Day.	Gals. Per Day Per Service.	Gals. Per Day Per Capita.	Maximum Temperature.
Minimum consumption	July 3	2,620,000	300	56.6	65 F.
Maximum consumption	July 30	4,920,000	563	106.3	87 F.
Average consumption		4,150,000	471	89	
Maximum rate during non-sprinkling hours		3,200,000	366	69.1	
During sprinkling hours....		10,500,000	1201	226.8	
No. of services in above dist.			July, 1908		8,744
Estimated population suppl'd			July, 1908		46,300
No. services in entire city..			July, 1908		32,226
Estimated population suppl'd			July, 1908		170,800

Estimated rate of consumption in entire city based upon consumption of East Side High Service District, as above:

Minimum, gallons per day.....	9,660,000
Maximum, gallons per day.....	18,140,000
Maximum rate of consumption during sprinkling hours, gallons per day.....	38,700,000



From the figures given above it appears that the consumption during cool weather is low, and the maximum is not excessive, but during sprinkling hours on warm days the rate sometimes exceeds 38,000,000 gallon. It is true that this rate of consumption continues for a brief time only, but nevertheless it is far beyond any reasonable requirement or demand upon the water supply system. It may be noted also that this excessive demand is caused by less than one-half of the total number using water. In the case of the East Side High Service District in July the total services numbered 8,744, while the services paying for sprinkling were 2,873, or but 33 per cent of the entire number.

In the whole city the number paying for sprinkling service in July was 11,192, out of a total of 32,226, or 35 per cent of the whole.

Taking the consumption at the average rate for the month, the per capita rate is but 89 gallons per day, which is a reasonable amount and an ample allowance as well.

That this per capita consumption is a reasonable allowance is also shown by a comparison of observations made in the Portland Heights District in May, 1906, and again in May and June, 1908, as shown below.

In May, 1906, the number of services supplied.....172
Estimated per capita consumption, based on pump records.168 gallons
Percentage of services metered..... 0
In May, 1908, the number of services supplied.....272
Estimated per capita consumption, based on pump records. 79 gallons
Percentage of services metered..... 82%
In June, 1908, a warmer month, the per capita consumption had risen to..... 97 gallons
Estimated decrease in per capita consumption, May, 1906—
June, 1908—42 per cent..... 71 gallons

A decrease apparently due to the use of meters.

A reasonable deduction from the foregoing figures is that by increasing the number of meters in use, so as to provide one for each sprinkling service, would materially reduce the present excessive draft upon the mains during sprinkling hours.

Additional Water Supply—

The preparation of general plans and estimates for various portions of this work has received attention during the year, and they are now well advanced towards completion. Considerable time has been spent in making examinations and reports upon different materials used for conduit purposes in other localities.

Measurements of the flow of Bull Run river at headworks have been made by the United States Geological Survey at intervals during the year. These measurements, so far as made, have verified former estimates of the low water flow of the stream as being 100

second feet, which is equivalent to between 65 and 66 million gallons in 24 hours. The daily observations made during the year 1908 indicate that the period of low water flow is more limited than has heretofore been estimated. For instance, there were only six days last Summer when the flow was less than 110 second feet, while the average for the year, October 1, 1907, to September 30, 1908, is given as 753 cubic feet per second. These figures prove that the flow of the stream is ample for all probable needs for years to come. With the period of low water flow of such short duration it will be easy to provide storage to cover any shortage which may occur after the entire low water flow is utilized. Estimating this flow at 65,000,000 gallons per day, as has been stated, with a per capita consumption of 100 gallons per day, there should be an ample supply for 650,000 people before the necessity for storage will arise.

The calculations for the size of the proposed new conduit have been based upon a discharge of 45,000,000 gallons per day, or practically twice the capacity of the present conduit. The new conduit and the old, taken together, will then have a capacity equal to the present low water flow of the stream. It is thought that this will provide for future needs as far as is advisable at this time.

The question of reservoir storage for use in connection with the new conduit has also received attention, for it is important that the work of reservoir construction should be commenced at as early a date as possible. If additional reservoir capacity could be provided at once, with large connecting mains, it would afford needed relief and avoid all danger of a possible shortage of supply until such a time as the new conduit could be safely and economically constructed.

Total expenditure during the year on account of this new work: Surveys, \$2,696.21; lands, \$1,000.

The following is a list of reservoirs now in use:

	Elevation.	Gallons Capacity
Reservoir No 1, Mt. Tabor, concrete.....	411.6	12,000,000
Reservoir No. 2, Mt. Tabor, brick.....	229.2	20,500,000
Reservoir No. 3, City Park, concrete.....	299.5	16,400,000
Reservoir No. 4, City Park, concrete.....	229.5	17,600,000
Portland Heights, concrete.....	865	600,000
Portland Heights, wood.....	641.5	50,000
South Portland, concrete.....	475	60,000
Willamete Heights, concrete.....	445.6	60,000
Near Summit, Mt. Tabor, wood.....	540.5	10,000
Near Summit, Mt. Tabor, wood.....		10,000
Near Summit, Mt. Tabor, wood.....		30,000
Vernon Standpipe, steel.....	343.6	360,000

Total capacity 67,680,000

In addition to the tables showing mains laid during the year and total now in use, etc., I submit a "Summary of Statistics" for the year ending December 31, 1908, prepared in the form recommended by the New England Waterworks Association for the compilation of data relating to Waterworks Maintenance and Operation.

Respectfully submitted,

D. D. CLARKE, Engineer Water Board.

PIPE EXTENSIONS COMPLETED DURING THE YEAR 1908

West Side.

	Size, Inches.	Length, Feet.
January—Burnside street, 13th to 14th street.....	16-inch	330
January—Stark street, 10th and Burnside.....	16-inch	840
Intersection branch	6-inch	40
January—Third street, between Glisan and Hoyt....	12-inch	297
Intersection branch	6-inch	38
January—Hoyt street, Third street to 30 feet west of west line of 4th street.....	12-inch	285
February—From point on Montgomery Street Drive to Reservoir on Portland Heights.....	12-inch	2,431
March—Palatine Hill	4-inch	156
July—21st street, Clifton to Spring. Clifton street, 20th to 21st street. Spring street, 20th street to 21st street	6-inch	1,585
July—Canyon Road, Power House to Montgomery Street Drive	12-inch	5,744
July—Vaughn street, 344 feet east of 32d and 745 feet west of 32d street. Thirty-second street, Vaughn to Thurman street.....	6-inch	1,347
July—Terrace Road, between old High Tank and Patton Road. Patton Road, between Terrace Road and Montgomery Street Drive.....	6-inch	1,726
Total		14,819
Total length 4-inch pipe.....		0.029 miles
Total length 6-inch pipe.....		0.897 miles
Total length 12-inch pipe.....		1.658 miles
Total length 16-inch pipe.....		0.222 miles
Total		2.806 miles

PIPE EXTENSIONS COMPLETED DURING THE YEAR 1908.

East Side.

	Size, Inches.	Length, Feet.
January—45th, 46th and 47th streets, between East Lincoln and East Grant streets. East Grant street, between 45th and 47th streets. East Lin- coln street, between 46th and 47th streets.....	2-inch	2,256
January—Nehalem avenue, between East 15th and East 19th streets. East 19th street, between Ne- halem and Spokane streets.....	6-inch	1,232
January—Marion avenue, between East 13th and East 19th streets. East 19th, between Marion and Sherrett streets.....	6-inch	2,010
January—West avenue, between Tabor avenue and Motor avenue	2½-inch	505
April—Broadway, bet. East 28th and 34th streets..	8-inch	1,700
April—East Taylor street, bet. East 40th and 45th...	6-inch	1,272
April—Belmont street, bet. West avenue and Cen- tral avenue	6-inch	200
April—Central avenue, bet. Belmont and Stark sts..	6-inch	898
May—Lexington avenue, bet. East 15th and 17th sts.	6-inch	530
May—Powell street, bet. East 19th and 21st.....	6-inch	500
June—Francis avenue, bet. East 26th and 32d.....	6-inch	1,710
June—East Oak street, bet. East 1st and 2d.....	4-inch	324
June—Halsey street, bet. East 12th and 16th.....	6-inch	1,008
June—McKercher street, bet. Hawthorne and Salmon	6-inch	720
Intersection branch	4-inch	50
June—Glisan street, bet. East 29th and 30th.....	6-inch	376
July—Schuyler street, bet. East 17th and 24th.....	6-inch	1,900
July—East Stark street, bet. West avenue and Gil- ham avenue	6-inch	580
July—East 61st street, north from Stark 600 feet...	6-inch	600
July—Francis avenue, East 32d and 96½ feet east of east line of 34th	6-inch	876
July—Hawthorne avenue, bet. Marguerite and 35th streets	8-inch	255
July—Hawthorne avenue, bet. East 37th and 54th sts.	8-inch	3,584
Intersection branches	6-inch	804
July—Umatilla street, bet. East 21st and 23d.....	6-inch	456
July—East Taylor street, bet. East 55th and 60th...	6-inch	1,250
August—Gladstone avenue, bet. East 32d and 34th..	6-inch	800
August—Clackamas avenue, bet. East 13th and 19th	6-inch	1,500
August—East 18th street, bet. Karl and Rhone.....	6-inch	735

August—East Pine street, bet. East 26th and 29th..	6-inch	765
August—East Taylor street, bet. East 76th and 80th. East 80th street, bet. Taylor and Delano and east to 82d to Delano north on 82d 64 feet..	6-inch	1,860
August—Division street, west from 50th street....	6-inch	126
August—Oregon street, bet. Union ave. and East 1st	8-inch	790
August—Washington street, bet. East 36th and 37th	6-inch	288
August—East 62d street, bet. Stark and Belmont.		
Belmont street, bet. East 61st and 62d.....	6-inch	1,132
August—Belmont street, bet. East 39th and 40th....	8-inch	548
August—Belmont street, East 40th.....	8-inch	1,000
Total		35,140
Total length 2-inch pipe.....		0.427 miles
Total length 2½-inch pipe.....		0.096 miles
Total length 4-inch pipe.....		0.071 miles
Total length 6-inch pipe.....		4.569 miles
Total length 8-inch pipe.....		1.492 miles
Total		6.655 miles

PIPE EXTENSIONS COMPLETED DURING THE YEAR 1908

Albina District.		Size, Inches.	Length, Feet.
January—Holman street, bet. East 18th and 20th....	2-inch		1,260
January—Portsmouth avenue, bet. Dawson and Syracuse streets	8-inch		1,136
Intersection branch	6-inch		72
February—Portsmouth avenue, bet. Dawson and Houghton streets	8-inch		1,675
February—Killingsworth avenue, bet. Greeley and alley west of Atlantic.....	2-inch		440
March—Vancouver avenue, bet. Russell and Page..	6-inch		432
March—Wilbur street, bet. Holman and Burton....	2-inch		900
March—East 6th street, bet. Failing and Shaver....	6-inch		432
March—East 13th street, bet. Failing and Mason...	6-inch		1,128
April—Rodney avenue, bet. Mason and Alberta....	8-inch		2,088
April—Albina avenue, bet. Fremont and Prescott..	8-inch		2,916
April—Williams avenue, between Killingsworth avenue and Alberta street.....	8-inch		1,286
Intersection branch	6-inch		84
May—Knott street, bet. Union avenue and East 7th	8-inch		702
May—Monroe street, bet. Union avenue and East 7th, and 120 feet on East 7th street.....	6-inch		900
May—Starr street, bet. Russell and Page.....	4-inch		400
May—Borthwick street, bet. Russell and Page.....	4-inch		452
May—Fargo street, bet. Borthwick and Commercial	6-inch		696
June—Beech street, between Union avenue and 14th	6-inch		2,628
July—Morton street, Durham avenue 300 feet north	2-inch		300
July—Manzanita street, bet. Durham avenue and East 6th street.....	2-inch		700
		Size, Inches.	Length, Feet.
July—Magnolia street, 260 feet west of Durham....	2-inch		260
July—East 8th street, 428 feet south of Manzanita..	2-inch		428
July—East 22d street, bet. Prescott and Alberta...	8-inch		1,308
July—Holman street, bet. East 16th and Durham..	2-inch		1,100
July—Cleveland street, bet. Shaver and Going....	6-inch		1,596
Intersection branch	2-inch		40
July—East 9th street, 425 feet south of Hyde.....	2-inch		425
August—Denver avenue, bet. Willamette Boulevard and Portland Boulevard.....	6-inch		2,900
August—Prescott street, bet. East 10th and 12th..	6-inch		475
August—Fargo street, between Commercial and Gan-			

tenbein avenue	6-inch	450
September—Knott street, bet. East 14th and E. 24th, and E. 24th street, bet. Knott to Thompson	8-inch	3,960
Intersection branches	6-inch	699
September—Van Houten street, bet. Dawson and Columbia	6-inch	4,650
October—Pippin street, bet. Delaware and Derby..	8-inch	1,476
Intersection branch	6-inch	18
October—Knott street, bet. East 10th and 14th....	8-inch	1,032
Intersection branch	6-inch	384
November—Fiske street, bet. Dawson and Houghton	6-inch	2,600
November—Prescott street, bet. Maryland avenue and Mississippi avenue.....	8-inch	280
November—Prescott street, bet. Maryland avenue and Mississippi avenue.....	6-inch	1,140
November—Mississippi avenue, bet. Prescott and Blandina streets	6-inch	528
November—Michigan avenue, bet. Prescott and Fremont streets	8-inch	2,796
December—Stanton street, bet. Commercial street and Williams avenue.....	8-inch	1,200
December—Emerson street, bet. Michigan avenue Kerby street	6-inch	1,000
December—East 9th, bet. Madrona and Holland....	2-inch	900
December—East 6th, bet. Beech and Skidmore....	6-inch	1,368
Total		53,640
Total length of 2-inch pipe.....		1.279 miles
Total length of 4-inch pipe.....		0.161 miles
Total length of 6-inch pipe.....		4.580 miles
Total length of 8-inch pipe.....		4.139 miles
Total		10.159 miles

RECAPITULATION.

Pipe Extensions Laid During Year 1908.

	West Side Miles	East Side Miles	Albina Miles	Total Miles
2 -inch.....	.....	0.427	1.279	1.706
2 1/2 -inch.....	.....	0.096	.....	0.096
4 -inch.....	0.029	0.071	0.161	0.261
6 -inch.....	0.897	4.569	4.580	10.046
8 -inch.....	.....	1.492	4.139	5.631
10 -inch.....	.....	.....	.....	.....
12 -inch.....	1.658	.....	.....	1.658
14 -inch.....	.....	.....	.....	.....
16 -inch.....	0.222	.....	.....	0.222
18 -inch.....	.....	.....	.....	.....
20 -inch.....	.....	.....	.....	.....
24 -inch.....	.....	.....	.....	.....
Total miles.....	2.806	6.655	10.159	19.620
Total feet.....	14,819	35,140	53,640	103,599

PIPE ABANDONED OR REMOVED DURING YEAR ENDING
DECEMBER 31, 1908.

East Side District.

	Size, Inches.	Length, Feet.
Powell street, bet. East 19th and 21st, C. I.....	6-inch	425
Schuyler street, East 12th, 13th from old standpipe, C. I.	10-inch	215
Milwaukie street, bet. Ellsworth and Powell, C. I..	6-inch	450
Ellsworth, Milwaukie east 150 feet, C. I.....	6-inch	150
Taylor street, bet. East 41st and 45th, W. I.....	1-inch	1,000
Belmont street, bet. East 60th and 61st, W. I.....	2-inch	800
East 61st street, bet. Belmont and Stark, W. I.....	2½-inch	200
East 61st street, bet. Belmont and Stark, steel....	4-inch	800
Stark, bet. East 61st and Gilham, steel.....	4-inch	900
Kinzel street, from old pump north to Stark, W. I. 2½-inch		1,000
Gladstone avenue, bet. East 30th and 32d, W. I....	2-inch	740
Total		6,680
Total length 1-inch pipe.....		0.190 miles
Total length 2-inch pipe.....		0.291 miles
Total length 2½-inch pipe.....		0.227 miles
Total length 4-inch pipe.....		0.322 miles
Total length 6-inch pipe.....		0.194 miles
Total length 10-inch pipe.....		0.041 miles

Total removed or abandoned East Side.....1.265 miles

PIPE ABANDONED OR REMOVED DURING YEAR ENDING
DECEMBER 31, 1908.

Albina District.

	Size, Inches.	Length, Feet.
Portsmouth avenue, bet. Syracuse and Willamette Boulevard, W. I.....	2-inch	1,400
Portsmouth avenue, bet. Dawon and Houghton streets, W. I.....	2-inch	1,675
Killingsworth avenue, bet. Greeley and Atlantic streets, W. I.	1-inch	440
Vancouver avenue, bet. Page and Russell streets, W. I.	1-inch	432
Page street, bet. Flint street and Vancouver ave- nue, W. I.....	1-inch	300
Rodney avenue, bet. Prescott and Going streets, W. I.	1-inch	400
Albina avenue, bet. Beech and Fremont streets, W. I.	2-inch	600
Albina avenue, bet. Failing and Shaver streets, W. I.	2-inch	400
Albina avenue, bet. Mason and Prescott streets, W. I.	2-inch	600
Prescott street, east from Albina avenue, W. I....	6-inch	140
Knott street, bet. East 7th street and Union avenue, W. I.	2-inch	700
Starr street, bet. Russell and Page, W. I.....	¾-inch	400
Borthwick street, bet. Russell and Page, W. I....	2-inch	300
Borthwick street, bet. Russell and Page, W. I....	¾-inch	152
Fargo street, bet. Commercial and Borthwick, W. I	1-inch	500
Beech street, bet. Union avenue and East 7th, W. I.	4-inch	800
Beech street, bet. East 7th and 12th, W. I.....	2-inch	1,228
Beech street, bet. East 12th and 14th, W. I.....	1-inch	600
Morton street, 300 feet north on Durham, wood...	2-inch	300
Manzanita street, bet. Durham and East 6th, wood	2-inch	700
Magnolia street, bet. Dekum and East 8th, wood..	2-inch	260
Cleveland avenue, bet. Shaver and Mason streets, W. I.	2-inch	200
East 9th, bet. Magnolia and Riggen streets, wood..	2-inch	425
Prescott avenue, bet. Mississippi and Maryland ave- nues, W. I.....	6-inch	1,400
Michigan avenue, bet. Prescott avenue and Fremont street, W. I.....	2-inch	2,784
Delay street, bet. Russell and Knott, W. I.....	4-inch	35
Delay street, bet. Russell and Knott, W. I.....	1-inch	300
Stanton street, bet. Williams avenue and Commer- cial street, W. I.....	2-inch	900

East 6th, between Mason and Shaver, W. I.....	2-inch	300
Total		18,731
Total length $\frac{3}{4}$ -inch pipe.....		0.104 miles
Total length 1-inch pipe.....		0.563 miles
Total length 2-inch pipe.....		2.430 miles
Total length 4-inch pipe.....		0.158 miles
Total length 6-inch pipe.....		0.292 miles
Total removed or abandoned Albina.....		3.547 miles

MAINS REMOVED OR ABANDONED DURING YEAR 1908

Recapitulation.

	$\frac{3}{4}$ -in.	1-in.	2-in.	2 $\frac{1}{2}$ -in.	4-in.	6-in.	10-in.	Total
West Side								
East Side		0.190	0.291	0.227	0.322	0.194	0.041	1.265
Albina	0.104	0.563	2.430		0.158	0.292		3.547
Totals	0.104	0.753	2.721	0.227	0.480	0.486	0.041	4.812
Total length removed or abandoned 1908, 4.812 miles.								

RECAPITULATION—DISTRIBUTION SYSTEM YEAR 1908

Mains 4 Inches in Diameter and Over Laid and Mains Taken Out or Abandoned, Showing Net Increase.

	4-in.	6-in.	8-in.	10-in.	12-in.	16-in.	Total Miles
West Side—							
Laid	.029	.897			1.658	.222	2.806
Total	.029	.897			1.658	.222	2.806
Removed or aband'nd							
Net increase	.029	.897			1.658	.222	2.806
East Side—							
Laid	.071	4.569	1.492				6.132
Total	.071	4.569	1.492				6.132
Removed or aband'nd	.322	.194		.041			.557
Net increase	-.251	4.375	1.492	-.041			5.575
Albina—							
Laid	.161	4.580	4.139				8.880
Total	.161	4.580	4.139				8.880
Removed or aband'nd	.158	.292					.450
Net increase	.003	4.288	4.139				8.430
							Miles
Total miles pipe laid 4-inch diameter and over.....							17.818
Total miles 4-inch pipe removed or abandoned.....							1.007
Net increase 4-inch diameter and over.....							16.811

EAST SIDE				WEST SIDE				ALBINA				TOTALS			
Steel or W. I.		Total No. Miles	C. I.	Steel or W. I.		Total No. Miles	C. I.	Steel or W. I.		Total No. Miles	C. I.	Steel or W. I.		Total No. Miles	
30	871	4,282	5,153	265	1,800	2,065	2,143	.....	.....	.....	1,136	6,082	.....	7,218	
24	2,289	4,630	6,919	3,788	2,481	6,269	2,143	.....	.....	2,143	8,220	7,111	.....	15,331	
20	3,981	6,667	4,648	2,116	586	2,702	1,094	.....	.....	1,094	7,191	1,253	.....	8,444	
18	889	596	.....	.....	587	.....	.....	.....	.....	.....	.....	1,183	.....	1,272	
16	2,580	.....	2,580	2,865	.....	2,865	2,190	.....	.....	2,190	7,635	.....	.....	7,635	
12	3,176	.....	3,176	3,469	.....	3,469	2,290	.....	.....	2,290	8,935	.....	.....	8,935	
12	4,151	1,088	5,239	1,622	1,800	3,422	2,300	.....	.....	2,300	8,073	1,088	1,800	10,961	
10	7,905	.....	7,905	3,942	.....	3,942	1,040	263	.....	1,303	12,887	263	.....	13,150	
8	3,761	.....	3,761	11,025	.....	11,025	12,446	494	.....	12,940	27,232	494	.....	27,726	
6	36,198	1,733	37,931	39,762	.....	40,114	17,375	5,324	275	22,974	93,335	7,057	627	101,019	
4	20,139	.....	20,139	18,108	1,049	19,157	4,761	6,581	.....	11,942	43,008	7,630	.....	50,638	
3	85,140	12,996	98,136	86,982	6,503	95,617	45,639	12,062	275	58,576	217,741	32,161	2,427	252,329	
2	614	.....	614	.....	896	.....	.....	1,034	.....	1,034	614	1,930	.....	2,544	
2	182	182	.....	373	.....	373	.....	1,417	1,417	1,417	.....	555	1,417	1,972	
2	744	744	.....	11,980	.....	11,980	.....	23,560	293	23,853	.....	36,284	293	36,577	
1	.....	.....	.....	1,262	.....	1,262	.....	3,587	.....	3,587	.....	4,849	.....	4,849	
1	.....	.....	.....	2,563	.....	2,563	.....	361	.....	361	.....	3,424	.....	3,424	
1	.....	.....	.....	4,441	.....	4,441	.....	6,598	.....	6,598	.....	11,039	.....	11,039	
1	.....	.....	.....	2,101	.....	2,101	.....	938	.....	938	.....	3,039	.....	3,039	
1	.....	.....	.....	.....	.....	.....	.....	456	.....	456	.....	456	.....	456	
85,754	13,932	99,676	86,962	30,573	2,152	119,689	45,639	49,240	1,985	96,864	218,355	93,737	4,137	316,229	
				42-inch Steel				32-inch Cast Iron				6,020 miles			
				35-inch Steel				28-inch Cast Iron				.380 "			
				33-inch Steel				Total C. I.				6,400 "			
				24-inch Steel (Submerged)				Steel				24,804 "			
				Total Steel				Total				31,204 "			

WATER DEPARTMENT.

Summary of Mains in Use December 31, 1908.

	Miles
Bull Run Conduit	31.204
Distribution mains, 4 inches and over.....	252.329
Distribution mains, under 4 inches.....	63.900
Total mains of all sizes	347.433

NOTE.—The following estimate of overflow pipe to be deducted from foregoing list in order to give approximate mains in actual service:

	Steel.	Cast Iron.
20-inch Steel, East Side.....	0.542	
20-inch Steel, West Side.....	0.439	
30-inch Steel, East Side.....	1.826	
30-inch C. I., East Side.....		0.227
8-inch C. I., Albina.....		0.042
6-inch C. I., Albina.....		0.004
6-inch C. I., West Side.....		0.011
Total miles	2.807+	0.284=3.091

STATEMENT

Of all the Earnings, Receipts and Disbursements by the Water Committee of the City of Portland, Oregon, and its successor, in 1903, the Water Board from November 25, 1885, when the Committee was appointed by Act of the Legislature, until December 31, 1908:

EARNINGS AND RECEIPTS	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	Totals	Totals	Grand Totals
Gross earnings of Water Works		\$ 97,502.71	\$ 113,082.06	\$ 148,106.81	\$ 181,110.40	\$ 238,217.95	\$ 261,830.30	\$ 249,228.82	\$ 234,066.45	\$ 268,492.65	\$ 249,919.90	\$ 268,926.10	\$ 289,363.45	\$ 301,481.75	\$ 323,842.15	\$ 320,230.15	\$ 385,812.05	\$ 433,781.70	\$ 497,408.35	\$ 568,992.50	\$ 621,894.45	\$ 639,083.80	\$ 656,259.00	\$ 7,348,943.00	\$	\$
Amount due from city for water for Fire Department, etc.						24,000.00	24,029.45	21,728.00	23,889.00	32,535.20	33,848.05	37,065.15	38,600.75	37,212.10	37,844.30	38,996.70	39,217.40	40,335.45	47,759.65	55,171.80	61,803.85	79,552.70	50,000.00	723,589.35		
Cash receipts of Water Works		97,502.71	113,082.06	148,106.81	181,110.40	214,217.95	237,800.85	227,500.82	210,177.45	235,957.45	216,071.85	231,880.95	250,762.70	264,269.65	285,997.85	281,233.45	346,594.65	393,446.25	449,648.70	513,820.70	560,090.80	559,531.10	606,259.00	6,625,353.65		
Deduct operating expenses and repairs		47,000.77	54,792.44	61,407.17	71,490.65	63,993.28	58,832.27	63,357.32	62,094.28	38,939.27	36,894.08	36,585.02	33,383.55	39,964.00	39,152.59	35,890.96	46,240.06	51,158.56	56,894.55	59,705.67	78,516.81	97,074.16	108,308.35	1,231,682.01		
Deduct increase of property in hands of operating department		50,501.94	58,839.62	66,699.14	100,815.55	150,224.67	178,468.58	164,143.50	148,083.17	197,018.18	179,177.77	195,275.93	217,379.15	224,305.65	246,845.26	245,342.49	300,351.59	342,287.69	392,754.15	454,115.03	481,573.99	462,456.94	497,950.65	5,393,671.64		
Net earnings from Water Works		3,277.31	3,170.03	322.96	5,115.40	2,928.36	1,400.13	3,594.91	6,924.66	325.70	12,177.77	13,840.71	624.62	4,968.11	204.88	1,137.22	1,572.12	3,142.40	11,766.09	238.35	13,662.08	30,213.30	11,700.44	60,062.54		
Deduct interest on bonds		47,224.63	55,729.59	66,876.16	101,263.00	147,296.31	177,068.45	167,738.41	155,007.83	196,692.48	167,000.00	209,116.64	218,003.77	219,337.54	246,640.38	246,479.71	298,782.47	339,145.29	380,988.06	453,876.68	467,911.91	432,243.64	509,651.09	5,333,609.10		
Deduct for Sinking Fund		25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	25,000.00	2,487,124.17		
Net earnings used for extending mains and construction		500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	2,900,000.00		
Water bonds sold		39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	39,300.00	222,200.70		
Premium on bonds		529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	3,122,200.70		
Totals		529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	529,300.00	5,811,185.63		
DISBURSEMENTS																										
Water Works purchased		664,551.81				26,558.44						45,000.00		9,700.00			176,144.00	27,326.39						771,833.41		
Additional pumps and mains from Police			12,279.06	42,026.85	102,632.78	26,558.44								9,700.00			176,144.00	27,326.39			5,859.00			279,046.13		
Deduct property sold		664,551.81	12,279.06	42,026.85	102,632.78	834.48	300.00	125.00			1,685.00										5,859.00	49,111.21		1,050,879.54		
Net cost of pumping systems		664,551.81	10,779.06	41,920.85	102,632.78	54,377.08	105,464.97	15,843.88	151,053.66	61,659.90	5,035.58	45,000.00	7,484.06	9,700.00			176,144.00	27,326.39			5,859.00	49,111.21		1,046,319.06		
Distribution system, extending mains		500.00	33,939.71	14,273.49	114,908.40	7,858.54								3,393.47	8,513.91	5,004.56	68,876.42	113,988.61	177,605.87	109,108.65	295,876.56	250,931.21	158,160.12	1,765,322.26		
Bull Run Gravity System																										
Surveys and explorations		7,850.73				630.70	272.57	508.40	5,278.75	613.00	1,885.90	3,423.46	811.25	2,448.75	882.72	509.34								9,688.40		
Land, right of way and rights of way		950.85				12,820.73	1,213.35	1,744.80	5,278.75															61,741.91		
Clearing and roads		125.00	324.25			41.60	16,574.09	15,649.71	331.70															33,046.35		
Build works on Bull Run river		7,180.10	2,409.89	1,500.00				36,406.98	8,656.17	253.00	749.78													57,245.92		
Steel plates for conduit, head works to Mt. Tabor, 4 miles								169,883.29	208,675.69	16.00														377,312.30		
Manufacturing and laying ditto								218,523.79	296,447.87	2,245.36	52,723.70													569,945.72		
Bridges for conduit across Sandy and Bull Run rivers								10,551.86	44,334.86		10.00				2,250.00									57,146.22		
Manufacturing and laying cast iron conduit, Mt. Tabor to Park, 6 miles								357.35	261,051.42	27,179.43														288,588.70		
Submerged pipes across Willamette river								6.05	63,884.47	14,907.96														132,651.51		
Sections (4) including land								41,369.73	678,134.29	122,568.09	9,003.94	5,690.96	41,586.45	11,654.95	68,956.67	21,094.54	1,681.76	2,027.70	101,717.39	36,315.68	14,072.40	16,596.58	17,068.38	1,174,657.67		
Portland Heights supply, water power pumps, etc.								7,349.09	22,748.58	799.20				3,579.77										34,476.64		
Telephone line to head works, 30 mi.								6,860.00	401.51															7,261.51		
Grand expenses		4,221.26	16,832.43	2,186.29	1,700.46	5,076.07	853.65	10,187.64	10,797.66	6,262.90	2,236.88	2,179.53	3,079.06	4,772.23	3,168.81	3,156.52	3,297.13							81,116.53		
Bull Run Conduit No. 2																								2,696.21		
Surveys and explorations																								1,000.00		
Land for reservoirs																								2,888,575.59		
Totals		\$ 483,427.85	\$ 53,596.28	\$ 52,024.85	\$ 150,068.52	\$ 90,633.04	\$ 145,156.88	\$ 527,772.98	\$ 1,736,897.14	\$ 257,192.04	\$ 70,259.98	\$ 63,979.30	\$ 56,021.80	\$ 43,489.24	\$ 75,258.20	\$ 24,760.40	\$ 250,409.65	\$ 143,342.70	\$ 279,323.26	\$ 145,424.33	\$ 322,307.96	\$ 316,638.00	\$ 178,924.71	\$ 5,700,216.91	\$	\$

Amounts invested are: \$1,046,319.06 for purchase of pumping systems and additions; \$1,765,322.26 for extending distribution system; \$2,888,575.59 for Bull Run Gravity System, and \$110,968.72 cash on hand as above.
 * After deducting from account "Premium on Bonds" \$7,500.00 being 5 per cent. discount on bonds sold in 1890.
 † After deducting from account "Steel Plates" \$1,262.06 for steel plates sold in 1895.
 ‡ After deducting from account "Water Works" amounts received for property sold as above.
 § Add for decrease of property in hands of operating department.

Gravity System was substituted for pumping January 1, 1895. The water rates have been reduced several times and are now about one third those charged by the private corporation which formerly supplied water to the City.
 x Rates reduced.

Balance in hands of Treasurer December 31, 1908, available for construction and purchases during 1909

FRANK T. DODGE,
 Superintendent Water Department.

\$5,811,185.63