

CITY OF PORTLAND
OREGON

MAYOR'S MESSAGE
AND
ANNUAL REPORTS

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928



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ELECTIVE OFFICERS

	Time Expires
Commissioner of Public Safety.... Mayor Geo. L. Baker.....	July 1, 1929
Commissioner of Public Utilities... John M. Mann.....	July 1, 1929
Commissioner of Public Works.... A. L. Barbur.....	July 1, 1929
Commissioner of Public Affairs... C. A. Bigelow.....	July 1, 1931
Commissioner of Finance..... Stanhope S. Pier.....	July 1, 1931
Auditor..... Geo. R. Funk.....	July 1, 1931

CIVIL SERVICE BOARD

Members Appointed

John F. Logan, Chairman
Harvey Wells
O. C. Bortzmeyer

COMMISSION OF PUBLIC DOCKS

Members Appointed

John H. Burgard, Chairman
F. C. Knapp, Vice-Chairman
A. H. Averill
Ira F. Powers
E. S. Collins

MAYORS OF PORTLAND FROM 1851 TO 1928

Name.	Elected.
Hugh D. O'Bryant.....	April 7, 1851
A. C. Bonnell.....	April 5, 1852
Simon B. Marye.....	November 13, 1852
Josiah Failing.....	April 4, 1853
W. S. Ladd.....	March 15, 1854
George W. Vaughn.....	April 2, 1855
James O'Neill.....	April 7, 1856
James O'Neill.....	April 6, 1857
W. S. Ladd.....	November 4, 1857
A. M. Starr.....	April 5, 1858
S. J. McCormick.....	April 4, 1859
G. Collier Robbins.....	April 2, 1860
J. M. Breck.....	April 1, 1861
W. H. Farrar.....	April 7, 1862
David Logan.....	April 6, 1863
Henry Failing.....	April 4, 1864
Henry Failing.....	June 19, 1865
T. J. Holmes.....	November 26, 1866
T. J. Holmes.....	June 18, 1867
Aaron E. Wait.....	July 24, 1867
J. A. Chapman.....	July 31, 1867
Hamilton Boyd.....	June 16, 1868
B. Goldsmith.....	June 21, 1869
P. Wasserman.....	June 20, 1871
Henry Failing.....	June 16, 1873
J. A. Chapman.....	June 21, 1875
W. S. Newbury.....	June 18, 1877
D. P. Thompson.....	June 16, 1879
D. P. Thompson.....	June 20, 1881
J. A. Chapman.....	June 19, 1882
John Gates.....	June 15, 1885
Van B. DeLashmutt.....	May 2, 1888
Van B. DeLashmutt.....	June 18, 1888
W. S. Mason.....	June 15, 1891
George P. Frank.....	June 4, 1894
Sylvester Pennoyer.....	June 1, 1896
W. S. Mason.....	June 6, 1898
W. A. Storey.....	May 16, 1899
Henry S. Rowe.....	June 4, 1900
George H. Williams.....	June 2, 1902
Harry Lane.....	June 5, 1905
Harry Lane.....	June 3, 1907
Joseph Simon.....	June 7, 1909
A. G. Rushlight.....	June 5, 1911
H. R. Albee.....	June 2, 1913
George L. Baker.....	June 4, 1917
George L. Baker.....	November 2, 1920
George L. Baker.....	November 4, 1924
George L. Baker.....	November 6, 1928

MAYOR'S MESSAGE

Portland, Oregon, November 7, 1929

TO THE COUNCIL:

I beg to submit herewith my Annual Report and Message for the fiscal year 1928.

The substantial growth which has been noted in Portland over a period of many years continued in 1928 at a rate commensurate with previous years. In practically every line of endeavor material increases were noted and the year ended with Portland much larger in population and much advanced in general development and with prospects bright for the ensuing year.

The city during the year completed many important improvements including the great Bull Run Dam for the storage of water, the widening of streets to meet the demands of increased traffic and the improvement and extension of streets to meet the traffic needs of the continued growth of new districts.

Following is a digest of the activities of the various municipal departments for the year:

TREASURER

Balance December 1, 1927.....	\$ 3,368,818.64
Received from all sources.....	19,843,597.25
	<hr/>
	\$23,212,415.89
Disbursed.....	20,348,215.74
Balance December 1, 1928.....	\$ 2,828,200.15

WATER BUREAU

New pipe laid (24.46 miles at a cost of).....	\$255,462.75
Total miles of pipe in service.....	1,169
Average daily consumption of water in city (gallons).....	35,914,849
Total estimated population supplied.....	416,972
Total consumption for year (gallons).....	13,191,380,986
Daily average, including service outside city (gallons).....	36,042,025

BUREAU OF WEIGHTS AND MEASURES

Weights inspected.....	518
Weights condemned.....	13
Gasoline pumps tested.....	1,057
Gasoline pumps sealed.....	908
Gasoline pumps ordered repaired.....	140
Gasoline pumps condemned.....	9
Scales inspected.....	3,126
Scales sealed.....	2,968
Scales condemned.....	71
Scales ordered repaired.....	87
Cords of wood measured.....	6,038

BUREAU OF LIGHTING

One hundred and eighty new street lamps were added during year making total of 5,187 in operation in 1928.

BUREAU OF HEALTH

No epidemics were recorded during the year. Total deaths 3672. Rate per 1000, 10.9 as against 3552 and 10.6 in 1927. The national average 12 per 1000. Non-resident death list for 1928 was 625 as against 578 in 1927. Infant mortality for year was 42.8 compared with 46.2 in 1927. A marked decrease in deaths from tuberculosis and 15 per cent increase in pneumonia deaths and a considerable decrease in deaths from communicable diseases prevalent among children of school age was recorded.

MILK DIVISION

Inspections were made as follows:

7,969 dairies, 394 creameries and depots, total of 8,363.
3,655 gallons of milk condemned; 194 herds, 4,576 head inspected for tuberculosis.
5,825 samples of milk and cream analyzed.

MARKET DIVISION

19,477 food establishments inspected.
6,384 establishments approved for licenses.
694 restaurants rated.
14,967 health cards to women.
10,154 health cards to men.
3,685 pounds food stuff condemned.

MEAT DIVISION

161,718 carcasses inspected and passed.
297 carcasses inspected and condemned.
9,417 pounds meat condemned.
5,337 livers condemned

CIVIL SERVICE BOARD

Twenty-seven hundred and one registrations were recorded for examinations held during the year. Eighteen hundred applications were filled; 17 examinations held; 287 appointed, and 106 re-appointed.

There were 33 resignations and 31 discharged for cause. A total of 2101 persons were employed under Civil Service. Of 1635 examined, 1343 passed. Of this number 437 were ex-service men.

NUISANCE DIVISION

Ninety-nine thousand one hundred and thirty-two notices and investigations were handled from December 1, 1927, to November 30, 1928. Weeds were cut on 2139 lots on request of owner.

CITY ATTORNEY

Handled 15,401 cases. Of these, 14,977 were in Municipal Court; 142 civil cases, 282 criminal cases disposed of in Municipal Court. Three hundred and fifteen Council calendar matters were reported on; 8522 communications written; 843 ordinances prepared; 184 contracts written; 642 contracts approved as to form; 1617 bonds approved as to form; 1942 search warrants issued; 2500 subpoenas issued; 14,000 Municipal Court complaints issued; 27 revocation of license hearings conducted; 206 deeds prepared and transaction consummated and \$110,047.34 collected from sale of property.

BUREAU OF POLICE

TRAFFIC AND SPEED SQUAD (Traffic Department)

Total arrests	5,938
Total days in jail.....	2,537

INSPECTORS DIVISION

Cases handled	4,833
Arrests	1,040
Investigations	4,869
Missing persons reported.....	719
Missing persons found.....	365
Warrants served	500

CHECK AND BANK DETAIL

Cases reported, forgery, attempted forgery, money false pretense, etc.	1,180
Cases reported and cleaned up.....	617
Cases not reported and cleaned up.....	89
Cases reported from outside.....	91
Arrests for forgery, fictitious checks, etc.....	150

VICE DIVISION

Arrests	2,895
Gambling	965
Liquor	1,209
Morals	375
Narcotics	112
Miscellaneous	234

Of the above 354 were held for health tests.

Days in jail.....	34,608
Suspended	6,543
Continued for sentence.....	275
Continued indefinitely	47
Discharged	179

Confiscations—

Alcohol (gallons)	648
Beer (quarts)	22,357
Moonshine (pints)	35,303
Gin (quarts)	493
Whiskey, bonded (quarts).....	13,018
Wine (gallons)	10,299
Mash (gallons)	17,664
Vodka (cans)	16
Cocaine (grains)	121
Marajwana (oz.)	113
Opium (grains)	2,235
Yen-pocks (grains)	100
Yen-shee (grains)	2,789
Stills	41
Opium outfits	13
Morphine (grains)	2,018

AUTO THEFT DIVISION

Reported stolen	1,850
Recovered	1,799
Unrecovered	51
Stolen outside and recovered here.....	128
Motorcycles stolen	15
Motorcycles recovered	14

MAYOR'S MESSAGE

WOMEN'S DIVISION

Interviews	6,048
Investigations	1,435
Office calls	7,771
Homes visited	2,021
Hotels, offices in public buildings visited.....	1,003
Cases handled	3,009
Dance permits issued.....	1,338
Dances held	3,023
Juveniles found in dance halls.....	168
Court cases	195
Total arrests for entire department.....	22,288

MUNICIPAL COURT

Fines	\$ 96,517.54
Fine forfeitures	28,030.75
Fine costs	674.85
	<u>\$125,223.14</u>

AUDITORIUM

Used (times)	257
Attendance	329,611
Main arena used (times)	199
Assembly room used (times)	51
Basement used (times)	7
Full rental arena (times)	172
Full rental assembly (times)	44
Full rental basement (time).....	1
Reduced rental arena (times).....	13
Free rental arena (times).....	14
Free rental assembly (times).....	7
Free rental basement (times).....	3
Balance December 1, 1927.....	\$ 3,299.64

RECEIPTS

Interest on daily balance.....	\$ 26.29
Rents	24,166.44
Payments on General Fund.....	7,500.00
Phone	8.80
Refund account material returned.....	16.20
Towels	2.70
Refund cash rotary account.....	600.00
Transfers Municipal Paving Rotary.....	\$ 32,320.43
	4,000.00
	<u>\$ 39,620.07</u>

DISBURSEMENTS

Warrants paid and returned.....	\$ 36,281.75
Transferred General Fund.....	753.20
Balance November 30, 1928.....	2,585.12
	<u>\$ 39,620.07</u>

MOVING PICTURES

Viewed (reels)	6,179
Viewed (subjects)	1,950
Condemned (subjects)	14
Condemned (reels)	69½
Eliminations (subjects)	177
Viewed (lin. feet film).....	6,197,000
Held (board meetings).....	97

MAYOR'S MESSAGE

HARBOR PATROL

716 runs (miles).....	9,437
Drowning in city	25
Rescued by grappling	12
Rescued from drowning	3
Bodies found floating on river.....	14

Fresh water on 322 ships; answered 30 calls from fireboat; re-covered 18 rowboats, 5 launches, 1 taxicab, 29 boomstick logs, piling, etc.; 63 snags removed.

PUBLIC MARKET

Seventy-four thousand producers used the market.

Total receipts	\$ 14,386.45
Total expense	6,867.50
Balance	<u>\$ 7,518.95</u>

MUNICIPAL SHOP

Work on various departments amounted to \$111,995.70.

Labor	\$ 67,957.35
Material	44,038.41

PUBLIC EMPLOYMENT

Obtained positions for (men).....	25,234
Obtained positions for (women).....	2,677
Total placements	<u>27,911</u>

STREET CLEANING

46,442 miles hard surface streets cleaned.
36,835 miles flushed.
9,607 miles hand swept.
494 macadam cleaned at cost of \$246,357.87.
42,829 catch basins cleaned at cost of \$8,338.61.
5,957 cubic yards snow removed at cost of \$9,100.25.

PUBLIC DOCKS

1,845 vessels entered with 5,162,077 tons registered. 1,840 vessels cleared with 5,163,997 tonnage.	
Foreign exports, 1928 (tons).....	1,437,515
Domestic exports, 1928 (tons).....	<u>1,146,182</u>
Total (tons)	2,583,697
Value	\$126,683,062
Foreign imports, 1928 (tons).....	141,545
Domestic imports, 1928 (tons).....	2,452,959
Total (tons)	<u>2,594,504</u>
Value	\$170,504,190
Total export and import (tons).....	5,178,201
Total value	<u>\$297,187,252</u>

22,516,014 bushels wheat foreign export.
634,296 barrels flour foreign export.
350,540 M. F. B. M. lumber foreign export.
1,428,388 barrels flour domestic export.
666,688 bushels wheat domestic export.
365,342 M. F. B. M. lumber domestic export.
164,935 tons paper domestic export.

BUREAU OF PARKS

Three Municipal Golf Links—	
East Moreland (attendance)	122,110
Rose City (attendance)	123,448
West Hills (attendance).....	22,690
	268,248
Receipts	\$ 94,942.45
24 playgrounds (attendance)	626,707
7 swimming tanks (attendance)	428,079
4 community houses (attendance)	126,589

BUREAU OF FIRE

Alarms	2,303
False alarms	70
Alarms, no loss	1,791

Five hundred and twelve alarms entailed loss of \$841,252.75.

Fire Marshal made 107,098 inspections and abated 13,450 fire hazards. All places of business were inspected every three months and practically all dwellings once during the year. Supervised the installation of 466 oil burners and 192 gas tanks and pumps. Two hundred and seventy-six old buildings that had become fire hazards were removed on condemnation.

Fire Marshal caused arrest and conviction of 19 persons for violation of Fire Prevention Ordinance. Five hundred and two Public Fire Prevention meetings were held which included meetings in schools and Boy Scout troops.

Clean-Up Week, May 20-26, working with Nuisance Division, made a check on unsightly places and many fire hazards were abated. Three hundred and twenty-five tons of old paper and 40 tons of rags were bought at Fire Stations. Three hundred and forty-eight Firemanship merit badges were awarded Boy Scouts.

Four new stations were constructed and the reconstruction of Fire Alarm Telegraph System was about 50 per cent completed. Fireboat "Carl Gunster" was placed in service in February, being berthed at Municipal Terminal No. 3. Five 1000-gallon pumpers were purchased and placed in service. Two 85-foot Aerial Trucks also purchased.

BUREAU OF GARBAGE DISPOSAL

Eighty-one thousand nine hundred and twelve tons of garbage and rubbish were disposed of by incinerator and Greeley Cut Off fill; 29,119 tons incinerated and 52,793 filled in Greeley Cut Off dump. Twenty-nine thousand eight hundred yards of non-combustible refuse was disposed of at incinerator dump and 4229 loads combustible refuse burned.

BUREAU OF LICENSES

Twenty-one thousand six hundred and sixty-six licenses for general purposes.

Total receipts	\$156,239.86
Dog licenses	21,470.50

PAVING PLANT

Laid 44,417 square yards new pavement at cost of \$75,817.02. Repairs to hard surface streets, 84,491 square yards at cost of \$144,882.96. Miscellaneous operations 75,505 square yards at cost of \$52,571.91. Grand total of 204,414 square yards at cost of \$273,271.89.

PUBLIC WORKS

The year 1928 may be considered a normal year in the amount of street and sewer improvements completed and ornamental lighting systems installed. Progress has been very satisfactory on the Front Street Intercepting Sewer and Drainage System, the sewer proper was completed early in the year while work on bulkhead wall and pumping plant has progressed to the stage that the entire project will be ready for operation in 1929.

Bonds to amount of \$3,170,000 were authorized at November election for widening of Burnside Street from Third to Park; Union Avenue from Going to Division; East Morrison from Grand to Twelfth; Foster Road from Seventy-second to Eighty-second; East Broadway from Union to Sandy Boulevard; East Burnside from East Thirteenth to Easty Thirty-second, and East Eighty-second from Sandy to Prescott. This being 50 per cent of total cost of acquiring property for these street widenings.

During the year there were constructed street improvements including pavements, sidewalks and curbs, grading, viaducts and street lighting in amount of \$1,827,301, of which approximately 64 per cent of total was on East Side. Total cost of sewers built during year amounted to \$488,195.

Four major street lighting improvements were completed at total cost of \$202,477 including Tenth, Hoyt to Jefferson; Morrison, from river to Washington Street; Alder, from Third to Chapman, and Fourth, from Burnside to Jefferson.

There are within boundaries of city. 12,542,810 square yards of hard surface pavement including the county roads within city limits. There are 2,287,307 square yards macadamized streets within city limits. Total value of all street improvements constructed by the city now amounts to \$45,109,961.

There are in place 958.31 miles of sewers, total cost \$13,310,592.

City of Portland at end of fiscal year had 1238.45 miles of streets within city limits.

	BUILDING BUREAU	\$21,134,785
9,723 permits		
	ELECTRIC DIVISION	156,475
1,256 permits		
	ELECTRIC SIGNS	381,885
917 permits		
	PLUMBING	1,477,215
6,255 permits		

Respectfully submitted,

GEORGE L. BAKER, MAYOR.

ANNUAL REPORT
OF
THE DEPARTMENT OF
PUBLIC SAFETY

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

DEPARTMENT OF PUBLIC SAFETY

GEO. L. BAKER
COMMISSIONER

BUREAU OF POLICE—

L. V. JENKINS, Chief

OFFICE OF CITY ATTORNEY—

FRANK S. GRANT, City Attorney

MUNICIPAL COURT—

F. W. STADTER, Judge

MUNICIPAL AUDITORIUM—

H. M. WHITE, Manager

BOARD OF MOVING PICTURE CENSORS—

ELEANOR T. COLWELL, Secretary

BUREAU OF POLICE

HON. GEORGE L. BAKER, MAYOR, CITY OF PORTLAND:

Dear Sir: I submit herewith the annual report of the Bureau of Police for the fiscal year ending November 30, 1928.

Respectfully,

L. V. JENKINS, CHIEF OF POLICE.

EXECUTIVE OFFICERS, BUREAU OF POLICE, 1928

L. V. JENKINS, Chief of Police
 CAPT. L. A. HARMS, Assistant to the Chief of Police
 H. T. BLAKESLEE, Chief Clerk of Bureau
 CAPT. J. T. MOORE, Chief Inspector, Commanding Inspectors' Division
 CAPT. F. M. WEST, Commanding Headquarters
 CAPT. H. A. LEWIS, Commanding Precinct No. 1
 CAPT. H. A. CIRCLE, Commanding Precinct No. 2
 CAPT. C. A. INSKEEP, Commanding Precinct No. 3
 CAPT. J. SPEIER, Commanding Harbor Patrol
 CAPT. F. ERVIN, Commanding Traffic Division
 LIEUT. H. M. NILES, Superintendent of Records and Instructor of Police School—Commanding Record Division.
 MISS MARTHA RANDALL, Supt. Women's Protective Division.

PERSONNEL OF BUREAU OF POLICE, 1928

1 Chief of Police	9 Operatives, Women's Protective Division
1 Chief Inspector	3 Matrons
6 Captains	1 Chief Clerk
1 Superintendent of Records and Instructor of Police School	2 Clerks
11 Lieutenants	4 Stenographers
26 Sergeants	4 Typists
30 Inspectors	5 Engineers, Building
15 Patrolmen in Inspectors' Office	6 Harbor Engineers
2 Patrolmen, Record Clerks	8 Elevator Operators and Janitors
35 Motorcycle Patrolmen	6 Telephone Operators
40 Traffic Patrolmen	1 Motorcycle Mechanic
208 Patrolmen	3 Automobile Mechanics
2 Motorbus Inspectors	1 Automobile Washer
1 Finger Print Expert	1 General Utility
1 Operative (Male)	1 Signal System Supervisor
1 Superintendent, Women's Protective Division	
1 Assistant Superintendent Women's Protective Division	437 Total Personnel

51 Automobiles
 26 Motorcycles

DEPARTMENT OF PUBLIC SAFETY

STATEMENT OF BUREAU OF POLICE SHOWING CONDITION OF APPROPRIATIONS NOVEMBER 30, 1928

Accounts	Total Appropriation	Claims Paid	Claims Outstanding	Total Encumbrance	Unencumbered Balance
Executive and Clerical—					
Personal Service	\$ 18,670.00	\$ 18,660.06		\$ 18,660.06	\$ 9.94
Operation and Maintenance	1,200.00	1,174.96		1,174.96	115.04
Equipment	51.00	48.38		48.38	2.62
Contingencies	6,000.00	5,843.51		5,843.51	156.49
Totals	\$ 26,011.00	\$ 25,726.91		\$ 25,726.91	\$ 284.09
Uniform Force—					
Personal Service	\$ 723,883.20	\$ 723,575.36		\$ 723,575.36	\$ 307.84
Operation and Maintenance	28,512.75	28,491.84		28,491.84	20.91
Equipment	777.95	734.32		734.32	43.63
Equipment (Auto)	20,943.50	20,895.51		20,895.51	47.99
Construction and Extension	835.00	830.03		830.03	4.97
Totals	\$ 774,952.40	\$ 774,527.09		\$ 774,527.09	\$ 425.31
Bertillon Division—					
Personal Service	\$ 3,940.00	\$ 3,938.71		\$ 3,938.71	\$ 1.29
Operation and Maintenance	1,150.00	1,119.73		1,119.73	30.27
Totals	\$ 5,090.00	\$ 5,058.44		\$ 5,058.44	\$ 31.56
Headquarters Division—					
Personal Service	\$ 49,792.05	\$ 49,646.96		\$ 49,646.96	\$ 145.09
Operation and Maintenance	25,326.20	24,691.02	\$ 25.00	24,716.02	609.58
Equipment	563.50	554.35		554.35	9.15
Purchase of Property	5,000.00	5,000.00		5,000.00	
Totals	\$ 80,681.75	\$ 79,892.33	\$ 25.00	\$ 79,917.93	\$ 763.82
St. Johns Sub-Station—					
Operation and Maintenance	\$ 608.00	\$ 609.89		\$ 609.89	\$ 58.11
Equipment (Auto)	14.00	11.00		11.00	3.00
Equipment	78.00	75.00		75.00	3.00
Totals	\$ 760.00	\$ 695.89		\$ 695.89	\$ 64.11

BUREAU OF POLICE

STATEMENT OF BUREAU OF POLICE SHOWING CONDITION OF APPROPRIATIONS NOVEMBER 30, 1928—
Continued

Accounts	Total Appropriation	Claims Paid	Claims Outstanding	Total Encumbrance	Unencumbered Balance
Harbor Patrol Division—					
Personal Service	\$ 10,380.00	\$ 10,380.00		\$ 10,380.00	
Operation and Maintenance	1,125.00	1,096.17		1,096.17	28.83
Equipment	40.20	39.37		39.37	.83
Totals	\$ 11,545.20	\$ 11,515.54		\$ 11,515.54	\$ 29.66
Women's Protective Division—					
Personal Service	\$ 21,925.00	\$ 21,917.26		\$ 21,917.26	\$ 7.74
Operation and Maintenance	1,663.00	1,384.48	\$ 5.00	1,389.48	16.12
Equipment (Auto)	1,635.00	1,635.00		1,635.00	
Equipment	157.75	152.25		152.25	7.50
Fixed Charges and Contributions	930.00	930.00		930.00	
Totals	\$ 26,255.35	\$ 26,218.99	\$ 5.00	\$ 26,223.99	\$ 31.36
Special Appropriations—					
Injuries to Officers	\$ 400.00	\$ 349.87		\$ 349.87	\$ 50.13
Maintenance—Traffic and Warning Signs	14,200.00	14,119.49	\$ 46.00	14,165.49	34.51
Police Reserves	600.00	600.00		600.00	
Rose Festival and Other Parades	45.00	45.00		45.00	
New Traffic Signals	29,781.80	25,747.78		25,747.78	4,034.02
Police School Activities	200.00	151.00		151.00	49.00
Totals	\$ 45,226.80	\$ 41,013.14	\$ 46.00	\$ 41,059.14	\$ 4,167.66
Bureau of Police	\$ 970,522.50	\$ 964,648.93	\$ 76.00	\$ 964,724.93	\$ 5,797.57
Police Traffic Signal Fund	\$ 3,029.79	\$ 3,029.79		\$ 3,029.79	
Policemen's Salary Increase Fund	\$ 160,811.00	\$ 157,929.54		\$ 157,929.54	\$ 2,881.46

ANNUAL EXPENSE REPORT BUREAU OF POLICE FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

Account Title	Sym- bol	Executive and Clerical Division	UNIFORM DIVISION						
			Patrol Service	Precinct No. 1	Precinct No. 2	Booth No. 7	Vice Squad	Traffic Squad	
Personal Services—	A	\$ 18,660.06	\$ 411,176.70					\$ 32,947.00	\$ 96,314.95
Supplies—	B	216.22	354.16	\$ 166.57	\$ 173.33			128.87	252.87
Office—	1			596.08					
Fuel—	2								
Food—	4								
Cleaning and Disinfecting—	5								
Motor Vehicle—	6	318.13	2,737.57	11.70	5.23			1,363.85	458.82
General Plant—	10	.88	205.91	20.19					
Material—	C								
Building—	3			1.81					
General Plant—	4		169.91	21.92	16.04				
Equipment—	D								
Office—	1	1.96	15.00	52.25	52.25			7.50	90.25
Household—	2	5.00							
Motor Vehicles and Equipment—	5	41.00	2,974.65	2,661.40	3,392.50		448.50	1,751.50	2,650.50
Tools—	7								18.00
General Plant—	8	.42	70.50						
Construction and Extension—	E			830.03					
Repairs—	E								
General—	2	13.15	214.70	47.20	67.50			1,043.26	7.98
Motor Vehicle—	3	429.28	1,283.15	563.27	327.35				62.83
Light, Heat and Power—	E4								
Heat—	D								
Janitorial Service—	E5								
Transportation—	E6								
Cars—	E	7.30							
Other Transportation—	E7	90.00	3.90					25.50	90.55
Communication—	A								
Telephone—	B		213.74						
Telegraph and Messenger—	E8		183.04						
General Plant Service—									
Contingencies—	F	5,843.51							

ANNUAL EXPENSE REPORT BUREAU OF POLICE FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Sym- bol	Executive and Clerical Division	UNIFORM DIVISION						
			Patrol Service	Precinct No. 1	Precinct No. 2	Booth No. 7	Vice Squad	Traffic Squad	
Fixed Charges and Contributions—	G								
Rent—	2								
Insurance—	4								
Other Fixed Charges—	6								
Purchase of Real Estate—	H								
Fugative Fund—		\$ 100.00							
Permanent Signs—									
Maintenance Permanent Signs—									
New Traffic Signals—									
Police Signal Fund—									
Police Reserves—									
Injury to Officers—									
Parades—									
Salary Increase Fund—									
Police School Activities—									
Totals—		\$ 25,726.91	\$ 419,003.02	\$ 7,437.92	\$ 6,107.70	\$ 1,078.61	\$ 37,267.57	\$ 99,877.55	

ANNUAL EXPENSE REPORT BUREAU OF POLICE FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Sym- bol	UNIFORM DIVISION							Bertillon Division
		In- spectors	Auto Theft	Record Room	Garage	Speed Squad	Total Uniform Division		
Personal Services—									
Salaries.....	A	\$ 86,477.94	\$ 27,047.00	\$ 35,778.83	\$ 0,006.00	\$ 23,836.07	\$ 723,575.36	\$ 3,098.71	
Supplies—									
Office.....	B	482.06	181.07	1,808.07	56.70	124.09	3,817.79	483.15	
Fuel.....	2						396.08		
Cleaning and Disinfecting.....	4				31.45		48.38		
Motor Vehicle.....	3				2,384.99		14,769.90		
Medical and Surgical.....	9	833.90	1,234.30	8.74	6.11	734.20	6.11		
General Plant.....	10			1.75	76.00		303.85		
Material—									
Building.....	3				20.30		22.11		
General Plant.....	4		71.00		357.30		1,246.50		
Equipment—									
Office.....	D								
Household.....	1	116.75	59.75	177.75	55.00		626.50	636.58	
Motor Vehicles and Equipment.....	2						4.90		
Tools.....	5	1,775.83	919.90		3,289.96	1,120.80	20,895.54		
General Plant.....	7						102.92		
Construction and Extension.....	8				14.42		830.03		
Repairs—									
General.....	E								
Motor Vehicle.....	2	21.00		12.91	4.92		376.21		
Light, Heat and Power—									
Heat.....	E4	373.61	648.27	4.50	812.94	394.39	5,680.22		
Janitorial Service—									
Transportation.....	D5						16.62		
Clothing.....	D6						60.00		
Carfare.....	D7	4.65	.80				125.40		
Communication—									
Telephone.....	E7	221.10	200.10	15.00			680.74		
Telegraph and Messenger.....	A	307.27	177.98				688.29		
General Plant Service—									
Contingencies.....	D8								
	F								

ANNUAL EXPENSE REPORT BUREAU OF POLICE FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Sym- bol	UNIFORM DIVISION							Bertillon Division
		In- spectors	Auto Theft	Record Room	Garage	Speed Squad	Total Uniform Division		
Fixed Charges and Contributions—									
Rent.....	G								
Insurance.....	2	55.00							
Other Fixed Charges.....	4								
Purchase of Real Estate.....	6								
Fugitive Fund.....	H				12.64				
Permanent Signs.....									
Maintenance Permanent Signs.....									
New Traffic Signals.....									
Police Signal Fund.....									
Police Reserves.....									
Injury to Officers.....									
Parades.....									
Salary Increase Fund.....									
Police School Activities.....									
Totals.....		\$ 90,069.11	\$ 31,440.70	\$ 37,897.55	\$ 16,276.63	\$ 26,820.58	\$ 774,527.09	\$ 5,058.44	

DEPARTMENT OF PUBLIC SAFETY

ANNUAL EXPENSE REPORT BUREAU OF POLICE FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Sym- bol	HEADQUARTERS DIVISION							Totals
		Property Room	Building	Jail	Matrons	Patrols	Total Headquarters Division	Special Appro- priations	
Personal Services—									
Supplies	A	\$ 1,920.00	\$33,435.98		\$ 6,046.64		\$ 49,646.96		\$ 828,118.35
Office	B	90.38	3.16	\$ 137.92			231.48		4,943.49
Fuel	1		3,066.30	14,730.70			3,086.30		3,734.20
Cleaning and Disinfecting	2								14,364.57
Motor Vehicle	4		1,281.58			\$ 578.64			16,945.21
Medical and Surgical	5								6.11
General Plant	9		1,074.86	70.61	32.26		1,177.73		1,075.62
Material—									
Building	10		280.96				280.96		354.57
General Plant	3								1,249.10
Equipment—									
Office	D								1,392.29
Household	1								577.65
Motor Vehicles and Equipment	2		269.47	133.70	64.58		407.75		22,615.46
Tools	5								41.54
General Plant	7		35.09				35.09		154.85
Construction and Extension	8		51.51				51.51		830.03
Repairs—									
General	E		777.21		250.50	1,837.29	1,027.71		3,417.07
Motor Vehicle	2								8,568.12
Light, Heat and Power—									
Heat	E4		62.98				62.98		64.47
Electricity	D		87.00		243.07		330.07		499.58
Janitorial Service	E5								87.60
Transportation—									
Carfare	E6								373.40
Other Transportation	E								707.24
Communication—									
Telephone	E7								683.85
Telegraph and Messenger	A								18.00
General Plant Service	B								6,041.01
Contingencies	E8		18.00				18.00		
	F								

BUREAU OF POLICE

ANNUAL EXPENSE REPORT BUREAU OF POLICE FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Sym- bol	HEADQUARTERS DIVISION							Totals
		Property Room	Building	Jail	Matrons	Patrols	Total Headquarters Division	Special Appro- priations	
Fixed Charges and Contributions—									
Rent	G								\$ 998.64
Insurance	2		\$ 63.20				63.20		63.20
Other Fixed Charges	4		10.00				10.00		10.00
Purchase of Real Estate	6								5,000.00
Fugative Fund	H						5,000.00		100.00
Permanent Signs									\$ 8,081.70
Maintenance Permanent Signs									6,037.79
New Traffic Signals									25,747.78
Police Signal Fund									3,029.79
Police Reserves									600.00
Industry to Officers									349.87
Parades									45.00
Salary Increase Fund									157,929.54
Police School Activities									151.00
Totals		\$ 2,010.38	\$40,517.30	\$15,072.93	\$ 6,637.05	\$ 2,410.93	\$ 79,892.93	\$201,972.47	\$1,125,608.26

DIVISION OF RECORDS

ANNUAL REPORT OF THE BUREAU OF RECORDS FOR THE FISCAL
YEAR ENDING NOVEMBER 30, 1928

LOCAL COMPLAINT FILES

	Reported	Cleared
BREAK AND ENTER--		
Attempts	474	34
Apartments	65	6
Filing Stations	29	3
Garages	33	2
Hotels	78	6
Houses	653	92
(Arrest of H. Predovick OK's 1 not reported)		
(Arrest of H. Strassburger and K. Johnson OK's 1)		
Houses under construction	15	2
Miscellaneous	45	7
Offices	74	10
Public buildings	35	8
Restaurants	49	11
Safes	47	5
Safes, attempts	23	1
Shops	73	11
Stores	255	43
(Arrest of Jas. Rhoten and M. Skubits OK'd 3 not reported)		
LARCENY--		
Attempts	42	10
Automobiles	1,992	1,961
Automobiles embezzled	54	41
Bicycles	616	392
From automobiles	1,137	118
From apartments	203	31
From filing stations	15	2
From garages	109	17
From hotels	360	62
From houses (Arrest of D. Younger and M. Ironsides OK'd not reported) (2)	389	62
From houses under construction	48	5
From offices	68	10
From porches	75	3
From public buildings	202	29
From railroad company, cars, etc.	11	2
From restaurants	47	12
From river	46	13
From shops	54	11
From stores	222	68
From yards	184	17
Miscellaneous	207	99
MISCELLANEOUS FELONIES AND MISDEMEANORS--		
Arrested for other departments	17	16
Arson	2	1
Arson attempts	2	
Assault—Simple	49	10
Assault—Dangerous weapons	33	18
Assault—Women	54	4

LOCAL COMPLAINT FILES—Continued

	Reported	Cleared
MISCELLANEOUS FELONIES AND MISDEMEANORS—Continued		
Assault—To kill	4	2
Contributing to the delinquency of a minor ..	19	7
Embezzlement—Miscellaneous	14	7
False Pretense, Trick and Imposture--		
Bogus money	9	
Obtaining goods false pretenses	31	7
Obtaining money false pretenses	61	17
Obtaining money, trick and device	12	3
Pickpockets	32	7
Short change artists (arrest of J. McDonnell OK'd 3)	16	10
Soliciting prostitution	50	7
Pictitious checks	648	187
(Arrest of W. W. Kerns OK'd 8 not reported)		
(Arrest of J. F. Parker OK'd 6 not reported)		
(Arrest of Burt Condon OK'd 20 not reported)		
(Arrest of L. R. Jamison OK'd 11 not reported)		
(Arrest of H. Taylor OK'd 8 not reported)		
Arrest of A. S. Hildebrandt OK'd 3 not reported)		
(Arrest of A. Roisum OK'd 23 not reported)		
(Arrest of R. H. Chittenden OK'd 1 not reported)		
(Arrest of C. E. Bilyeau OK'd 83 not reported)		
(Arrest of C. E. Bilyeu OK'd 3 corr. files)		
Forgeries	2	2
Fugitives	7	7
Manslaughter	2	2
Miscellaneous		1
Murders	7	5
(1-13-28, Mrs. Elma Mathews killed by Joe Levis, life imprisonment; 3-16-28, H. Brown, killed by unknown; 5-29-28, Margie Stoy, killed by George Masterson, acquitted; 9-8-28, Dolly Neuman, killed by Harry Neuman, suicide; 10-26-28, Gert-rude Norberg, killed by Emil K. Norberg, suicide; 10-27-28, K. Hayano, killed by unknown; 11-9-28, G. O. Pinto, killed by Dora DeSilva, 5 years, \$5 fine.)		
Rape	7	5
Rape, attempt	1	1
Robbery--		
Beating	26	7
Binding and gagging	7	
Drunk rolling	163	42
Holdups	35	6
Holdups, attempts	2	
Miscellaneous	45	12
Snatching	1	
Snatching, attempt	18	5
Strongarmed	20	6
Threat to kill	23	16
Violation of laws and ordinances		

LOCAL COMPLAINT FILES — Continued

	Reported	Cleared
MISCELLANEOUS FELONIES AND MISDEMEANORS—Continued		
Violation of prohibition law.....	2	1
Violation of United States laws.....	20	13
Carrying concealed weapons.....	3	2
Disorderly conduct.....	41	16
Domestic trouble.....	185	10
Escapes.....	49	34
Exposing person.....	92	4
Mischievous boys.....	47	
Peeping Toms.....	30	3
MISCELLANEOUS REPORTS—		
Complaints.....	400	
Complaints—Rent.....	7	
Dead animals.....	2	
Dead bodies found.....	60	
Demented.....	94	
Destitute persons.....	722	
Fire alarms.....	71	
Information.....	130	
Investigations.....	180	
Miscellaneous officers.....	168	
Poisoned animals.....	30	
Sick cared for.....	154	
Suicides.....	44	
Suicides, attempts.....	76	
Suspicious characters.....	505	
Vicious dogs.....	112	
Wanted.....	40	
LOST OR FOUND PERSONS—		
Males.....	488	251
Females.....	221	114
LOST AND FOUND PROPERTY—		
Bicycles.....	3	3
Furniture.....	2	1
Jewelry.....	43	9
License plates.....	32	5
Miscellaneous.....	149	81
Purses.....	128	39
Suitcase-bags.....	59	27
Trunk.....	1	1
Watches.....	34	7
Wearing apparel.....	21	12
LOST AND FOUND ANIMALS—		
Cattle.....	4	2
Dogs.....	187	61
Horses.....	5	5
Miscellaneous.....	6	3
ACCIDENTS, NOT TRAFFIC—		
Automobiles.....	2	
Cave-ins.....	3	
Electricity.....	1	
Elevators.....	2	
Explosions.....	10	
Fire.....	1	
Firearms.....	6	
Flying, falling or rolling objects.....	12	

LOCAL COMPLAINT FILES — Continued

	Reported	Cleared
ACCIDENTS, NOT TRAFFIC—Continued.		
Gas.....	6	
Machinery.....	2	
Miscellaneous.....	2	
Railroad.....	3	
Street cars.....	17	
Water.....	5	
ACCIDENTS, FALLS, NOT TRAFFIC—		
From ladder.....	4	
From porches.....	2	
From scaffolds.....	4	
From stairway.....	6	
From window.....	5	
Into elevator shaft.....	1	
Into openings.....	1	
Into trenches.....	1	
Miscellaneous.....	11	
On sidewalks.....	14	
On streets.....	5	
Total classified reports, including No. 96,361..	14,271	4,330

Total unnumbered reports..... 23,633
 Total juvenile reports..... 1,109
 Total correspondence and circulars..... 4,109

AUTOMOBILE FILES

Automobiles stolen and recovered..... 1,799
 Automobiles stolen and unrecovered..... 51— 1,850
 Automobiles stolen prior to Dec. 1, 1927, and recovered 1928..... 20
 Automobiles stolen outside and recovered here in 1928..... 128
 Automobiles embezzled and recovered..... 28
 Automobiles embezzled and unrecovered..... 13— 41
 Automobiles embezzled prior to Dec. 1, 1928, and recovered 1928..... 2
 Automobiles embezzled outside and recovered here in 1928..... 9
 Motorcycles stolen and recovered..... 14
 Motorcycles stolen and unrecovered..... 1— 15
 Motorcycles stolen outside and recovered through this department... 1
 Motorcycles embezzled prior to Dec. 1, 1927, and recovered 1928..... 1
 Cards placed in stolen automobile files in 1928..... 10,163
 Cards taken from stolen automobile files..... 9,504
 Cars released from police garage in 1928..... 4,261

BULLETINS ISSUED

Commercial..... 28,875
 Daily..... 213,840
 Semi-monthly..... 6,000— 248,715

PAWNSHOP FILES

Number of cards filed..... 16,825
 Identifications made..... 123

DEPARTMENT OF PUBLIC SAFETY

FINGER-PRINT FILES

Total number of finger-prints filed.....	9,828
Photographed for local use and exchange.....	584
Total number of photographs printed.....	13,593
Photographs and other objects copied.....	148
Number of prints made from copies.....	568
Photographed for immigration authorities.....	158
Photographs printed for immigration authorities.....	1,318
Vagrants finger-printed for identification.....	2,622
Trips made from office for latent prints.....	175
Total number of identifications made.....	739
Extra photographs given out.....	2,050
Correspondence (letters written).....	520

TRAFFIC ACCIDENTS

Number of accidents.....	20,875
Number of persons killed.....	54
Number of persons injured.....	3,125
Number of personal injury accidents investigated.....	726
Number of traffic arrests.....	9,658
Fines collected by Municipal Court for traffic violations.....	\$22,107.50

COLLISIONS BETWEEN AUTOMOBILES AND THE FOLLOWING

Automobiles (2522 persons injured and 33 persons killed).....	13,247
Baby carriage (1 person injured).....	3
Bicycles (173 persons injured; 1 person killed).....	630
Bridge gate.....	5
Buildings (1 person injured).....	12
Coasters (9 persons injured).....	9
Concrete mixer (1 person injured).....	2
Cows (1 person injured).....	2
Dogs.....	110
Guy wire.....	1
Hand Car.....	1
Horses (1 person injured).....	5
Loading platform (2 persons injured).....	5
Motorcycles (168 persons injured; 2 persons killed).....	688
Pedestrians (15 persons killed).....	1,069
Posts (8 persons injured).....	95
Push carts (2 persons injured).....	2
Obstruction, street.....	3
Railroad signal.....	1
Roller skate (4 persons injured).....	4
Runaway team.....	1
Scoters (2 persons injured).....	2
Snow plows (3 persons injured).....	7
Steam roller.....	1
Street barricade.....	2
Street cars (215 persons injured; 3 persons killed).....	1,945
Tractor.....	1
Trailer.....	1
Trains (10 persons injured).....	71
Trees.....	3
Tricycles.....	4
Trolley wire.....	1
Trucks.....	2,891
Wagons (2 persons injured).....	49
Wheel barrow.....	1
Wood pile.....	1
Totals (3125 persons injured; 54 persons killed).....	20,875

BUREAU OF POLICE

CAUSES OF THE DIFFERENT ACCIDENTS
(As near as can be determined from our reports)

Carelessness.....	10,988
Cutting corners.....	1,659
Defective steering gears.....	2
Double parking.....	50
Driving against traffic.....	5
Driving automobile with defective brakes.....	131
Driving automobiles while intoxicated.....	474
Driving on left side of street.....	65
Automobiles, no lights.....	39
Failure to give right of way.....	3,899
Failure to give proper signals.....	1,754
Improper lights.....	100
Improper parking.....	34
Inexperienced drivers.....	4
Intoxicated pedestrians.....	7
Jaywalking.....	65
Losing control.....	20
Passing double at intersection.....	109
Passing street car on left side.....	9
Passing street car while discharging passengers.....	6
Reckless driving.....	633
Skidding.....	563
Speeding.....	244
Turning to reverse direction, middle of block.....	15
	20,875

FATAL ACCIDENTS

Date	Person	Address
12-20-27	Anderson, Fred	3615 66th St.
11-15-27	Berglund, John	Unknown
3-14-28	Bromberg, Mrs. Fannie	Westfall Apts.
6-24-28	Barrett, Demar	3736 42d St. S. E.
10-16-28	Berkoski, Alvin	620 Borthwick St.
12-15-27	Cottrell, Blondine	Counselor Apts.
4-14-28	Clossett, Emil	695 Corbett St.
5- 5-28	Charneski, Conrad	364 E. 24th St.
7-28-28	Carlin, Oscar	LaCrosse, Wisconsin
8-10-28	Coleman, Ralph	654 Glisan St.
8-24-28	Crowe, J. E.	185 E. 16th St.
10-28-28	Chambers, David	1311 E. 39th St.
12- 6-27	DeShirley, Bonnie	Linnnton, Oregon
1- 9-28	Doe, John	Unknown
3- 9-28	Doe, John	Unknown
5-27-28	Dawson, William	111 E. 84th St. N.
9- 9-28	Davis, Clifford	426 Hall St.
3-18-28	Freeland, J. H.	361 Failing St.
11- 2-28	Freeman, H. T.	708 Hudson St.
8-15-28	Gemma, Mrs. Ida	809 Kenilworth Ave.
12-11-27	Hosse, Charles A.	1528 E. 11th St.
8-22-28	Henderson, James	Vancouver, B. C.
9-22-28	Hinck, Henry	Vancouver, Wash.
10-25-28	Hunt, John L.	4329 66th St. S. E.
11- 8-28	Hudnut, W. H.	1734 E. Ninth St.
7-28-28	Jay, Mark	564 Powell Valley Road
3- 4-28	Lind, Geraldine	286 11th St.
3-11-28	Leapheur, John	387 1/2 12th St.
3-26-28	Leader, John	424 Clay St.
6-26-28	Lehkamp, Edward R.	192 Fremont St.
3- 2-28	McGowen, George	1085 Wasco St.
7-15-28	McGinty, J.	670 E. Seventh St.
3- 5-28	Madison, Mrs. A. D.	1616 Stockton St.
3-23-28	Manning, L. H.	1241 Mallory Ave.
8- 6-28	Mock, Christina H.	271 Market St.
9- 2-28	Marsden, Mrs. Gilbert G.	Seattle, Wash.
5-17-28	Nichols, Frank	430 E. 27th St. N.
11-29-28	Piccaride, Joe	1785 E. Ninth St. N.
12- 6-27	Roberts, May	721 E. 23d St.
12-25-27	Straub, Dolph	812 E. Edison St.
2-22-28	Spaner, Katherine	Beaverton, Ore.
3-27-28	Snyder, Mrs. S. C.	420 E. 39th St.
6- 2-28	Sugimoto, Aga	48 E. Sixth St. N.
9-14-28	Strain, Mrs. L. H.	Holton, Ore.
10-20-28	Stewart, Mrs. P. L.	Astoria, Ore.
12-12-27	Terrill, D. W.	Hoyt Hotel
5-26-28	Truman, Richard	Boring, Ore.
7- 2-28	Turney, Carl	3624 64th St. S. E.
11- 7-28	Thiel, G. N.	107 E. Emerson St.
12-12-27	Whitman, Mrs. E.	405 E. Yamhill St.
1-15-28	Uttler, Bessie	595 E. 31st St.
2- 7-28	Walton, C. M.	Unknown
4-29-28	Whitman, Alex A.	186 Sherman St.
8-14-28	Woodward, Mrs. M. G.	340 E. 82d St.

PARKING VIOLATIONS

Parked by fire hydrant	68
Parked by police sign	23
Parked double	696
Parked in front of building entrance	119
Parked in lieu of a garage	1,230
Parked in loading zone	416
Parked in no parking streets	1,441
Parked in safety zone	639
Parked overtime	4,786
Parked with no lights	1,238
	<hr/>
	10,656
Number who deposited bail	5,534
Number discharged	5,122
	<hr/>
	10,656
Amount of bail deposited	\$11,892.25

WOMEN'S PROTECTIVE DIVISION
 Superintendent Martha Randall in Charge

Continued cases	207	Amusement centers visited..	394
New cases	2,481	Homes visited	2,021
Reopened cases	421	Hotels, offices, public build- ings visited	1,003
Adults, female	1,272	Office calls	7,771
Adults, male	664	Assistance (financial, meals and lodgings)	820
Married	1,339	Assistance (not financial)..	401
Single	467	Community activities	56
Juveniles	1,848	Employment found	54
Reported anonymously.....	71	Letters written	621
Reported from outside.....	272	Speeches delivered	82
Reported from men's division	361	Wages collected	6
Reported voluntarily	2,405		
Interviews	6,048		
Investigations	1,435		

REASONS FOR COMPLAINTS

Assault	7	Obscene literature	1
Assault and battery.....	32	Perjury	1
Bastardy	2	Polygamy	1
Blackmail	1	Pregnant:	
Checks	8	Married	10
Contributing to delinquency of a minor.....	52	Minors	19
Dependency	25	Single	20
Desertion	42	Rape	15
Defrauding an innkeeper....	2	Rape, attempted	3
Destitution	94	Selling without license.....	1
Disorderly conduct	118	Sick	74
Domestic trouble	257	Suicides	7
Drugs	16	Suicides, attempted	18
Employment	46	Suspicious conduct	332
Escapes—Missing	144	Sodomy	3
Located	83	Trespassing	1
Forgery	6	Vagrancy	22
Fornication	1	Violation booking ordinance.	1
Health	78	White slavery	8
Immoral	44	Minors:	
Impersonating an officer....	4	Cruelty	14
Larceny	66	Delinquency	147
Lewd cohabitation	41	Dependency	232
Liquor	61	Deserted	1
Mental:		Escapes—Missing	271
Feebleminded	26	Located	196
Insane	32	Incorrigible	125
Unbalanced	31	Neglect	160
Murder, attempted	1	Obscene writing	2
Murder, threatened	1	Rape	6
Neighborhood trouble	32	Selling Newspapers	60
News ads	26	Violating curfew law.....	484
Non-support	37	Violating labor law.....	6

COMPLAINTS FILED

Assault	2	Insane	21
Assault and battery.....	17	Larceny	22
Bastardy	1	Lewd cohabitation	16
Contributing to delinquency of minors	47	Polygamy	1
Cruelty	1	Non-support	9
Defrauding an innkeeper....	1	Rape	19
Delinquency	43	Rape, attempted	3
Dependency	43	Sodomy	1
Disorderly conduct	61	Trespassing	1
Feebleminded	4	Vagrancy	29
Forgery	7	Violating curfew ordinance..	1
Fornication	1	Violating labor law.....	2
Health	8	Violating narcotic law.....	4
Immorality	9	Violating prohibition law....	27
		White slavery	8

REFERRED TO:

City Attorney	6	Men's division	132
Civil officers	5	Relatives	101
Court of Domestic Relations.	151	Outside agencies	15
District Attorney	49	Rescue homes and institu- tions	134
Grand Jury	37	Special agents	35
Federal authorities	27		
Local agencies	85		

Court cases	195
Paid dance hall permits issued at City Hall.....	1,148
Free dance hall permits issued at City Hall.....	89
Paid permits issued at our office.....	123
Free permits issued at our office.....	28— 1,388
Dances held	3,023
Dances visited	1,973
Grills visited	117
Juveniles found in dance halls.....	168
Halls measured and inspected	9
Halls registered	115
Collected by dance hall inspector for licenses and hall registration.....	\$143.50

TOTAL ARRESTS OF ENTIRE DEPARTMENT

Number of arrests	22,288
Number of males (American)	17,168
Number of males (Foreign)	3,026
Number of females (American)	2,069
Number of females (Foreign)	198
Number of females (American, juveniles).....	48
Number of males (American, juveniles).....	1,243
Number of males (Foreign, juvenile).....	18
	23,770

(There were 23,770 charges preferred against 22,288 arrests.)

TOTAL ARRESTS ENTIRE DEPARTMENT—NATURE OF CRIME

	Americans		Juveniles		Foreigners		Total
	Male	Fe-male	Male	Fe-male	Male	Fe-male	
After Hours	345	17	24		33	3	428
Assault	8		1		3		12
Assault with Intent to Kill	1				2		3
Assault and Battery	108	22	3		43	1	267
Assault with Dangerous Weapons	12	1	3		4		20
Assault and Robbery	5	2	1		1		9
Assault and Robbery with Dangerous Weapon	19		1		4		24
Being Behind Barred Doors	282				312		594
Begging	36		1		4		41
Burglary	5		56		1		93
Burglary, Attempt	34		1		1		7
Carrying Concealed Weapons	73		4		3		41
Chauffeurs, No Licenses	51		1		2		76
Conducting Business, No License	51	2	2		6	1	62
Contributing to Delinquency of Minors	24	5	1		5		35
Cruelty to Animals	3	1			1		5
Defrauding an Innkeeper	8		1		1		11
Demented	31	5			13	3	52
Disorderly Conduct	475	130	99		94	13	812
Disorderly Conduct by Fighting	23	3	2		10		43
Deserter	1						1
Drunk	2,590	138	6		893	15	3,642
Drunk and Disorderly	396	74	1		81	11	563
Driving Automobiles While Intoxicated	187	6	1		40	1	235
Dogs, No License	64				5		69
Earphone	14	2	3		7		26
Escapes	11		9		3		23
Fictitious Checks	48	3	5		7		56
Fictitious Checks, Attempting to Pass			1				1
Forgery	19		1		1	1	22
Fugitives from Justice	77	6	4		4		91
Gambling	63				26		89
Gambling, Visiting	64				33		102
Gambling, Conducting	13				10		23
Gambling Paraphernalia in Possession					10		10
Gambling, Operating Punch Board	20	5			1		26
Held for Authorities	65	6	7		15		93
Held for Health	8	143				2	153
Held as Witness	8	12	4		3	5	33
Held for United States	159	23	5		101	3	296
Held for Women's Division	1	24			6		31
Impersonating an Officer	2						2
Interfering with an Officer	7	1			1		9
Immoral Women		114					118
Indecent Exposure	5		1		4		10
Juvenile Delinquency			15				15
Larceny	156	20	150		18	1	345
Larceny, Attempt	7		5				12
Larceny of Automobiles	88		85		4		177
Larceny of Automobile Accessories	11	1	8				20
Larceny of Bicycles	1		60				61
Larceny from Dwellings	19	1	11		1		32
Larceny, Grand	15	5	1				22
Larceny, Simple	2	1					3
Larceny of Automobiles, Attempt			2				2
Larceny by Bailee	23	8	2		4		37

TOTAL ARRESTS ENTIRE DEPARTMENT—NATURE OF CRIME—Continued

	Americans		Juveniles		Foreigners		Total
	Male	Fe-male	Male	Fe-male	Male	Fe-male	
Larceny of Motorcycles	1		1				2
Larceny from Stores	12	4	8		1	1	26
Larceny from Person	5	3			3		11
Larceny from Room					2		2
Lewd Cohabitation	6	7			2		15
Lodgers	7	12	1		3	2	25
Lost Children			11	4			15
Lost Persons	5	5			1		11
Lottery, Conducting					16		16
Lottery, Visiting	88	2			51	1	142
Lottery Tickets in Possession	1				1		2
Lottery Paraphernalia in Possession					60		60
Maintaining a Nuisance	8	5			3	1	17
Maintaining a Nuisance, Assisting					1		1
Manslaughter	1				2		3
Manslaughter, Involuntary	7	1					8
Minors in Pool Hall	6		1				7
Minors in Pool Hall, Allowing	1				1		1
Minors with Tobacco in Possession	19		52				72
Murders					2	1	3
Narcotics in Possession	6	3			4		13
Obtaining Money, False Pretense	73	8			7		88
Obtaining Money, False Pretense, Attempt			1				1
Parole Violators	3	1	1				5
Rape	13				3		16
Rape, Attempts	1				1		2
Resisting an Officer	6		1				8
Reckless Driving	384	17	12		39		452
Robbery	1		5				6
Receiving Stolen Property	17	2			1		20
Runaway Children	2	1	83	3			89
Scavenger Wagon Violation	12				17		29
Sodomy	2						2
Selling Tobacco to Minors	7				1		8
Stolen Goods in Possession	17	6	3		3		29
Soliciting on Street	2	133			2	2	139
Tampering with Automobiles	27	1	4		3		35
Throwing Glass in Streets	34	3			2	1	40
Trespassing	12	1	22		5		40
Threatening to Kill	3						3
Surrendering by Bondsmen		1			1		2
Threatening to Commit a Felony	7				1		8
Using Profane and Abusive Language	23	7			3	1	34
Vagrancy	1,141	143	14		213	5	1,516
Violation of City Ordinance, Misc	138	4	15		26	7	190
Violation of Building Ordinance	37				1		38
Violation of Curfew Ordinance	14	4			3	1	22
Violation of Dogs at Large			203	28			231
Violation of Fire Ordinance	15	2			2		19
Violation of Health Ordinance		3					3
Violation of Hotel Ordinance	6	2			4		12
Violation of Market Ordinance	12		2		25		39
Violation of Mafers' Ordinance	14		2		5		21
Violation of United States Laws	3	1					4
Violation of Prohibition Law	837	248	2		326	106	1,519
Violation of Harrison Narcotic Act	24	8			20		52
Violation of Traffic Ordinance	834	49	15		56	1	955
Improper Lights	1,529	83	16		55	1	1,684
Defective Mufflers	90		4		2		96

TOTAL ARRESTS ENTIRE DEPARTMENT—NATURE OF CRIME—
Continued

	Americans		Juveniles		Foreigners		Total
	Male	Fe-male	Male	Fe-male	Male	Fe-male	
No Mufflers	122	2	5	1			130
Open Cutouts	157		11		3		171
No Operator's License	231	14	15		7		267
Failure to Stop	1,206	147	28		36		1,417
Failure to Signal	64	3	1		2		70
Failure to give Right of Way	183	13	8		21		225
Four in Front Seat	95	3	3				101
Parking Overtime	987	69			45	2	1,103
Parking Double	1,087	157	27		41	3	1,315
Speeding	981	47	49	2	26		1,105
Cutting Corners	27	3			2		31
Careless Operation of Autos	20	2			1		24
Violation State Motor Veh. Law	132	8	1		9		150
Improper Licenses	481	20	15		25		541
Using Street for Garage	13						13
Miscellaneous—					2		14
Sick	4	8					1
Failure to Pay Fine		1					
Breaking through Funeral Procession	1						1
Damaging Personal Property	2		3		1	1	7
Blackmailing			1				1
Injured	3	1					4
Rioting	6						6
Non-support	3						3
Conducting a Bawdy House	1						1
Engaging in Business, no State License	1						1
Attempting to Bribe an Officer					1		1
Selling Lottery Tickets	2						2
Attempting Extortion					1		1
Wearing Fraternity Pin and not a Member	2						2
Pointing a Gun at Another	1						1
Foreign Juveniles—							
Larceny of Automobiles	5						5
Larceny from Store	1						1
Vagrancy	1						1
Assault with Dangerous Weapon	1						1
Disorderly Conduct	1						1
Violation of Market Ordinance	2						2
Violation of Curfew Ordinance	2						2
Failure to Stop	1						1
Assault and Robbery	1						1
Robbery	1						1
Held for United States	1						1
Forgery	1						1
Bail receipts							\$414,691.00
Municipal Court receipts							125,313.14

HARBOR PATROL
Karl Prehn, Chief Engineer

Arrests	8
Assessed in fines	\$170.00

PROPERTY RECOVERED

Launches	5	Taxicab	1
Fending-off float	1	Square timbers	2
Canoe	1	Spars	2
Boomsticks	29	Rowboats	18
Bicycle	1	Piling	19
Log	2	Logs	19
Anchor	2		

Fireboat calls answered	30
Lungmotor calls answered	1
Patrol boat runs	716
Number of hours	1,230
Number of miles covered	9,437
Number of gallons of gasoline consumed	800
Number of gallons diesel oil consumed	3,201
Number of gallons lubricating oil consumed	156
Number of gallons of kerosene	45
Number of gallons of 600-W	5
Number of pounds of grease	48
Dangerous snags removed from channel	63
Launchings attended	1
Number of times assistance was rendered to Commission of Public Docks	242
Number of times assistance was rendered to shipping and others	66
Number of times aids to navigation were checked over	2
Number of times race course patrolled	1
Number of times salvage pump was called for and used	10
Number of times ships were boarded in the harbor	749
Number of times traces of fuel oil were found and investigated	3
Unclassified items	35
Number of persons rescued from drowning	3
Number of drownings in city limits (12 bodies recovered by grappling)	25
Number of bodies transferred for the Coroner	2
April 27 F. F. Gandy, 70 years, found on dredge.	
Nov. 10 Yoskiahi Yokoyima, 19 years, buried by a slide.	
Number of bodies found floating in river	14
Feb. 4 Jack Williamson	
April 22 Joseph Wenning	
April 22 Charlie Woodruff	
May 12 Earl Simmons	
May 16 Roland A. McDonald	
May 22 Mr. Plumblee	
June 3 Lewis Covack	
July 3 Robert S. Bexell	
July 25 Unidentified man.	
Aug. 18 Victor Dahlin	
Aug. 30 Unidentified man	
Sept. 10 Unidentified man	
Number of persons drowned in addition to floaters	12
March 3 Sam Webb, 34 years	
April 6 Dwayne Cockrane, 11 years	
April 22 Wayne Bishop, 14 years; leaky boat sank	
May 4 Karl Klein, 34 years, fell from S. P. siding	
May 25 Ben H. Mile, jumped off Burnside bridge	
May 25 Benny Moon, 7 years, fell from a houseboat	
July 8 Frank Burke, jumped off Broadway bridge	
July 10 Donald Harcus, 11 years, swimming	
July 23 Maraco Fujimoto, 14 years, swimming	
Aug. 27 John A. Nail, 24 years, overturned canoe	
Oct. 12 Swan Johnson, 45 years, jumped off Burnside bridge	
Nov. 14 William Jones, 45 years, ladder breaking at foot of E Yamhill	

Number of persons drowned outside the city limits.....	3
April 25 Earl Simons, 40 years, 1190 Burrage street	
April 29 Chas. Rice, 8 years, 845 Greenwood Ave.	
June 24 Edw. Ehlers, 38 years, 15 E. 18th street, N.	8
Number of suicides.....	
April 22 Joseph Wanning, 70 years	
May 4 Ben H. Miles, 53 years, jumped off Burnside bridge	
May 16 Roland A. McDonald, jumped in at foot of Russell	
May 22 Mr. Plumblee, jumped in at O.-W. R. & N. Albina dock	
June 3 Lewis Covack, 36 years, jumped off steel bridge	
July 3 Frank Burke, jumped off Broadway bridge	
Aug. 18 Victor Dehlin, jumped overboard at Ross Island	
Oct. 12 Swan Johnson, 45 years, jumped off Burnside bridge	

Fires discovered on waterfront and extinguished without calling fire department 2

A weekly inspection was made of the motorboat landings.

A close watch has been maintained for all new construction and repair work along the waterfront and reported to Captain J. Speier.

Fresh water was placed on board of 322 ships to the amount of 6,585-754 gallons and at a cost of \$2,520.75 to them.

**NUISANCE DIVISION
INSPECTIONS**

Letters written	250	Debris and dirt on sidewalk..	6
Dumping debris on lots.....	8	Barricade broken down....	1
Old building, open, hangout..	3	Displaying wares on sidewalk	2
Brush, grass, etc., over lot..	12	Barking dogs, etc.....	2
Electric sign not illuminated	4	Chickens running at large...	1
Driving over sidewalk.....	10	Tool house on parking.....	1
Outside toilet	1	Leaking downspout	1
Mud on sidewalk	6	Auto parking on sidewalk...	2
Spilling dirt in street.....	3	Crowing rooster	1
Oil on sidewalk.....	1	Vegetable, etc. on floor of	
Sand and gravel on street...	3	cafeteria	1
Low awning	5	City car parked on crossing..	1
Sign on sidewalk.....	1	Transporting uncovered gar-	
Low tree limbs.....	2	bage	14
Sod piled on adjoining lot....	1		

FINES NUISANCE DIVISION RESPONSIBLE FOR COLLECTION

Hawking on market.....	\$ 5.00
Transporting uncovered garbage.....	67.50
	\$ 72.50
Balance in fund December 1, 1928.....	\$ 1,642.65
Appropriations	10,000.00
Collections	824.51
	\$12,467.16

EXPENDITURES

Office and supervision.....	\$ 450.00
Locating and posting.....	150.00
Searching records	135.00
Nuisance inspections.....	150.00
Automobile compensation	50.00
Burning brush etc.....	1,028.38
	\$ 1,963.38
Balance December 31, 1928.....	\$10,503.78

CAPT. H. M. NILES, SOPT. OF RECORDS AND INSTRUCTION.

NUISANCE DIVISION

ANNUAL REPORT, DECEMBER 1, 1927 TO NOVEMBER 30, 1928

Balance in Weed Rotary Fund Dec. 1, 1927.....	\$ 725.57	
Appropriation	10,000.00	
Collections	9,029.28	
Total		\$19,754.85
Summary of expenditures—		
Office and supervision.....	\$ 6,686.45	
Searching records	1,469.99	
Locating and posting	1,217.74	
Nuisance inspections	2,304.14	
Auto compensation	600.00	\$12,278.32
Weed cutting		\$ 4,749.84
Stationery and supplies.....		\$ 1,084.03
Total		\$ 18,112.19
Balance November 30, 1928.....		\$ 1,642.66
Outstanding accounts contingent on collection—		
Cutting bills	\$ 373.59	
Posting charges	7,142.00	\$ 7,515.59

SUMMARY OF WEED CUTTING

Lots cut on request, 2,139; cutting cost, \$2,981.84; posting charges, \$796.50; overhead, \$295.11; cost as billed, \$4,073.46.
 Lots cut, city property, 1,905; cutting cost, \$1,773.45; overhead, \$177.35; cost as billed, \$1,950.80.
 Average cost per lot as billed, \$1.49.
 Average cutting cost, \$1.18.

LICENSES AND FINES

Awning erectors	\$ 700.00
Woodyards, etc.	400.00
Transporting uncovered garbage.....	147.50
	\$1,247.50

NUISANCE DIVISION

Lots located	25,020	Barking dogs	27
Notices written	25,020	Boards and debris in street..	1
Notices posted	16,324	Bldg. material on sidewalk..	19
Notices mailed	16,324	Bush and vines over sidewalk	28
Letters written	2,580	Burnt house, debris not	
Dead horses	2	cleaned up	4
Attempt to burn house.....	1	Boys destroying store bldg..	1
Assault and battery.....	1	Bldg. burnt, not cleaned up..	1
Erecting awning, no license..	2	Buildings uncompleted	6
Abandoned auto	3	Elockading street	2
Auto and trucks in yard—old	3	Barricades broken down....	1
Ashes in alley.....	1	Boys playing ball in street...	1
Old auto body on curb.....	1	Boxes piled on sidewalk.....	3
Alley blockaded by wood....	1	Brush piled on street.....	1
Ashes on lot.....	1	Burning garbage in yard....	2
Ashes dumped in alley.....	1	Barb wire fence.....	2
Old buildings, open.....	121	Boys playing on vacant lot..	1
Boys digging hole and build-		Bldg. material on private lots	1
ing playhouse	1	Barricades, unsafe	1

NUISANCE INSPECTIONS—Continued

Boxes piled against fence...	1	Debris on parking.....	2
Brush obstructing view.....	1	Dirt on city property.....	1
Brush over walk.....	1	Displaying goods on sidewalk	2
Clogged sewer and drain.....	3	Electric signs, not illumi-	51
Cars parked on sidewalk.....	2	nated	5
Cats disturbing neighborhood	3	Eavestrough out of repair...	1
at night	1	Electric vendor	1
Cows in unsanitary barn.....	11	Electric pole on parking.....	1
Chickens running at large...	2	Fountain, drinking, out of	3
Curb broken	2	order	1
Cutting trees on lot.....	2	Old fence about to fall.....	3
Contractor dumping dirt and	5	Found ice coupon book.....	1
rubbish on private prop-		Fire hydrant, lumber piled	1
erty		about	1
Collecting garbage outside	2	Gravel and sand in street and	26
city, no bonds.....	8	on sidewalk	1
Catch basin clogged.....	4	Girls blockading street.....	14
Cesspools, open	2	Glass in street.....	1
Chicken pen, unsanitary.....	1	Goats running at large.....	1
Cows herded over walk.....	2	Game chickens, keeping.....	1
Cows staked on walk.....	5	Garbage cans and boxes un-	14
Crowing roosters	2	covered	8
Curb band loose.....	2	Gutters rotted out.....	1
Concrete blocks in street...	1	Leaking water gate.....	1
Coal bin in street.....	1	Garbage on city property...	2
Chicken house within 25 feet	1	Gravel on parking.....	5
of residence	24	Grass and weeds over lot and	1
Debris on sidewalk.....	9	sidewalk	1
Dust from asphalt mixing	1	Grass, not cut.....	4
plant	9	Grass piled on lot.....	109
Defective trap doors.....	1	Hedge overhangs sidewalk..	5
Digging sewer, dirt on vacant	14	Holes in street.....	2
lot	27	Holes in sidewalk.....	3
Debris and junk on street...	5	Hole in parking.....	1
Debris and garbage in back	234	Hog pen, unsanitary.....	3
yard	16	Horses on lot.....	1
Dumping garbage in street...	4	Angle iron on curb.....	1
Driving over sidewalks.....	3	Junk piled on sidewalk.....	3
Dirt over sidewalks.....	8	Junk on lot.....	2
Dogs tipping garbage cans	2	Junk yard, no license.....	1
over	4	Junk and bottles in street...	79
Dog carries off neighbors'	3	Low awnings	311
shoes, etc.	8	Lamp post broken.....	3
Dirt piled in street, no lights	2	Low tree limbs.....	3
Dust from mill and factory...	1	Low tree limbs, damaging	3
Debris behind signboard....	4	autos	6
Dirt in gutter.....	10	Old lumber piled on lot.....	2
Dog, vicious	34	Leaking sewers	6
Dumping garbage on vacant	3	Lumber on walk.....	2,133
lot	4	Locations made	1
Dog killing cats and other	3	Leaking fire hydrants.....	1
dogs	4	Lights broken in subway...	1
Dogs destroying lawn and	4	Located—quarter section	106
property	1	maps	2
Dogs howling	60	Manure piled on curb.....	1
Dumping dirt on street.....	11	Manure piled on lot.....	3
Debris on lot.....	2	Manufacturing brooms in	1
Displaying merchandise on	31	basement	1
sidewalk	6	Manhole cover broken.....	3
Dogs, no license.....	1	Manhole, open	5
Dog annoying children.....	31	Water main leaking.....	1
Dumping on lot.....	6	Manure piled in street.....	1
Drinking fountain leaking...	1	Missing light on construction	2
Dye works, annoying neigh-	1	work	2
bors		Manure on lot.....	2

NUISANCE INSPECTIONS—Continued

Machinery on lot.....	1	Sidewalk covered with de-	1
Power machinery in resi-	1	bris	8
dence district	1	Sidewalk blocked	7
Meat market, unsanitary...	3	Shrubby grown over side-	3
Musical instruments late at	1	walks	1
night	1,419	Sand on street	1
Monkey bit child.....	2	Switch out of order.....	2
Noisy electric fan.....	1	Snow sliding from building..	1
Noisy goose	1,419	Smoke stack too low.....	1
Notices mailed	1,419	Sawdust on sidewalk.....	1
Notices posted	2,522	Street signs too low.....	1
Notices written	1	Sidewalk covered with water	2
Noise and bright lights in	1	Street for storage.....	3
tea room	7	Subway flooded	1
Old cisterns	4,112	Sign hung over street.....	1
Ownerships ascertained	1	Sawdust trucks	2
Dumping oil in streets.....	1	Spilling dirt on street.....	4
Open house	1	Trap door out of order.....	1
Oregon Electric tracks, rough	1	Tree roots breaking sidewalk	11
crossing	1	Trees, vines and brush over	1
Peddling, no license.....	1	walk	1
Pasturing cows in city park.	4	Trees breaking sewers.....	25
Posting, no dumping signs...	4	Transporting uncovered gar-	6
Parking car on sidewalk...	5	bage	6
Papers in street.....	15	Toilet open	6
Poison oak on lots.....	2	Dead tree on lot.....	1
Pigeons annoying residents..	1	Tree overhangs cabin	2
Parking auto on vacant lots.	1	Tree trimmings piled on curb	1
Pavement sinking	82	Dead tree on parking.....	3
Posted quarter sections.....	2	Trees down over street....	1
Papers on lot.....	7	Trailer in street, no light...	1
Parking auto on curb.....	1	Tree trimmings on lot.....	1
Playing electric piano late at	2	Trip hammer jarring building	2
night	2	Trees—Auto on walk.....	1
Residence left in filthy condi-	1	Tannery burning hair.....	2
tion	3	Tool house on parking.....	1
Retaining wall fallen on side-	1	Undesirable neighbors.....	1
walk	3	Unsanitary chicken pen.....	1
Rabbit pen, unsanitary.....	1	Vulcanizing shop, using	1
Repairing track, no light dis-	1	street	10
played	2	Wood piled on sidewalk.....	9
Repairing trucks	2	Lots overgrown with weeds	16
Rubbish in alley	2	and brush	2
Rubbish on parking	2	Woodyard, no license.....	100
Radio late at night.....	2	Wood piled on curb and park-	3
Repairing buildings	1	ing	1
Guard rail broken down....	7	Wood on lot.....	3
Rubbish between garages...	1	Woodyards, investigated ...	1
Rubbish on lot.....	3	Wrecking yard, operation...	1
Rubbish and debris in street	1	Windows, breaking out of	1
Rocks piled in street.....	1	house	1
Sawdust from factory, an-	1	Woodsaw, operating	1
noying neighbors	1	Wall, concrete about to fall..	1
Broken U. S. Army sign....	1	Woodsaw, parked on side-	1
Sand and gravel on sidewalk	1	walk	1
Scaffolding and timbers on	5	Well, open	1
curb	5	Water running across side-	1
Sawdust in street.....	5	walk	1
Sidewalk not completed....	19	Wreckage lumber piled on lot	1
Sidewalk broken	1	Wash rack, no drainage.....	1
Spilling dirt on street.....	2	Water tanks in street.....	1
Stagnant water	5	Storage yard	1
Scotch broom on lot.....		Yard for parking.....	1

Ninety-nine thousand one hundred and thirty-two instruments and investigations handled by Nuisance Division December 1, 1927, to November 30, 1928.

JOE ROBERTS, GENERAL FOREMAN.

MUNICIPAL COURT

REPORT OF THE MUNICIPAL COURT TO THE MAYOR OF THE CITY OF PORTLAND, OREGON, OF ALL FINES, FORFEITURES AND COSTS COLLECTED BY THE MUNICIPAL COURT AND PAID TO THE CITY TREASURER FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1928.

	Fines	Forfeitures	Costs	Total
December, 1927	\$ 16,866.00	\$ 2,379.50	\$ 47.70	\$ 19,293.20
January, 1928	7,809.50	1,822.25	59.47	9,691.22
February, 1928	11,167.79	2,590.00	22.06	13,779.85
March, 1928	8,682.50	2,710.60	83.43	11,476.53
April, 1928	6,698.00	2,438.50	67.03	9,174.53
May, 1928	7,230.50	2,562.50	56.91	9,849.91
June, 1928	6,829.25	1,611.50	39.45	8,480.20
July, 1928	8,178.50	2,634.25	91.84	10,904.59
August, 1928	7,934.50	2,304.50	45.91	10,284.91
September, 1928	6,529.00	2,237.00	60.75	8,826.75
October, 1928	7,896.50	2,641.25	65.36	10,603.11
November, 1928	6,781.50	2,099.50	30.60	8,911.60
Totals	\$ 96,517.54	\$ 28,030.75	\$ 674.85	\$ 125,223.14

Fines	\$ 96,517.54
Forfeitures	28,030.75
Costs	674.85
Total	\$ 125,223.14

Respectfully submitted,

F. W. STADTER, MUNICIPAL JUDGE.

Attest: N. D. BEUTGEN, CLERK.

OFFICE OF CITY ATTORNEY

ANNUAL REPORT, NOVEMBER 30, 1927 TO NOVEMBER 30, 1928

Portland, Oregon, January 4, 1929.

HONORABLE GEORGE L. BAKER, MAYOR, CITY OF PORTLAND:

Dear Sir: The annual report of the City Attorney for the fiscal year ending November 30, 1928, is respectfully submitted, as follows:

Calendar matters reported upon	815
Written opinions rendered (in addition to many verbal opinions to various departments of the city)	191
Communications, written, general	8,156
Letters written to various property owners respecting uses by tenant of property for unlawful purposes	366
Ordinances prepared	843
Contracts between City and parties furnishing materials and supplies to City	184
Contracts and miscellaneous papers approved as to form	642
Bonds approved as to form	1,617
Warrants issued to electrical, health, license, and building inspectors	127
Search warrants prepared and issued	1,942
Affidavits for search warrants	1,942
Subpoenas issued	2,500
Complaints, Municipal Court	14,000
Real estate contracts prepared and execution thereof supervised	190
Deeds conveying property prepared, the instrument recorded, and transactions consummated	200
Amount of money transmitted to City Treasurer on account of sale of property	\$110,047.34
Amount collected on account of claims	\$2,100.94
Hearings, and adjournments thereof, conducted as follows:	
On revocation of licenses	27
Before Mayor preliminary to discharge of police officers	3
Representing City before Civil Service Board, hearings disposed of	5

All meetings of the Council and other meetings of the Commissioners, meetings of committees of the Council, meetings of the Bureau of Police and Bureau of Fire were attended by members of the City Attorney's office.

The City Attorney appeared at numerous conferences with the Board of County Commissioners of Multnomah County.

Property owners, with but one exception, have co-operated fully with this office in correcting unlawful uses by tenants of property, readily following suggestions offered and without any protest making ejectments of tenants after milder measures had proved of no avail. It should be noted that the unco-operative property owner is a Chinese company. In our files are many letters from owners expressing appreciation of attention called to undesirable reports against tenants and commending the administration for the policy pursued in handling these matters.

The following is a summary of the court work handled by the City Attorney's office during the fiscal year ending November 30, 1928, and of the cases now pending in the courts:

DEPARTMENT OF PUBLIC SAFETY

GRAND SUMMARY EXCLUSIVE OF COURT WORK

Calendar matters reported upon.....	315
Written opinions rendered	191
Communications, written, general.....	8,156
Letters written to property owners.....	366
Ordinances prepared	843
Contracts prepared	184
Contracts approved as to form.....	642
Bonds approved as to form.....	1,617
Warrants, electrical, health, license, building.....	127
Search warrants	1,942
Affidavits for search warrants.....	1,942
Subpoenas issued	2,500
Complaints, Municipal Court.....	14,000
Hearings on revocation of license.....	27
Hearings before Mayor.....	3
Hearings before Civil Service Board.....	5
Real estate contracts.....	106
Deeds prepared and transactions consummated.....	208
Amount collected on account of sale of property.....	\$110,047.34
Amount collected on account of claims.....	\$2,100.94

SUMMARY OF CIVIL CASES DISPOSED OF AND PENDING IN THE UNITED STATES DISTRICT COURT, SUPREME COURT OF THE STATE OF OREGON, CIRCUIT COURT OF MULTNOMAH COUNTY, AND DISTRICT COURT FOR MULTNOMAH COUNTY.

	Civil Cases Disposed of	Civil Cases Pending
Suits to quiet title.....	62	42
Street extension or widening cases.....	38	1
*Tax foreclosures	11	9
Damages for other than personal injury.....	9	17
Injunction suits	9	2
Damages for personal injury.....	4	5
Suits in interpleader.....	2	0
Action for false imprisonment.....	2	1
Suits to test validity of ordinances.....	2	0
Mandamus proceedings	1	0
Writ of review.....	1	2
Condemnation cases	1	1
Cases involving assessments on improvements.....	0	2
Action to recover on deposit.....	0	1
Mortgage foreclosures	0	1
	142	84

* This office collected during the year on account of sale of delinquent tax property the sum of \$110,047.34.

SUMMARY OF CASES TRIED IN THE MUNICIPAL COURT AND APPEALED TO THE CIRCUIT COURT

Appeals from the Municipal Court and tried in the Circuit Court.....	282
Convictions	140
Sentence suspended conditioned upon good behavior of defendant, fine paid	53
Sentence suspended conditioned upon defendants leaving City.....	24
Cases dismissed, lack of evidence, in many cases owing to disappearance of witnesses or where witnesses did not wish to prosecute	12
Cases in which defendant acquitted by Court.....	9
Cases in which appeal continued indefinitely.....	7
Cases remanded to Municipal Court for further proceedings.....	7
Cases dismissed or suspended, evidence insufficient.....	7
Sentence suspended or fine paid and jail sentence suspended, defendant being sole support of family.....	6
Sentence suspended, conditioned upon good behavior of defendant.....	5
Sentence suspended, defendant confined in penitentiary or in jail pending appeal, unable to furnish bond on appeal.....	5
Cases in which appeal perfected but prior to trial in Circuit Court fine paid in Municipal Court.....	3
Cases dismissed, search made without warrant for arrest or search warrant	2
Case dismissed, defendant having entered plea of guilty in another parallel case	1
Case dismissed because of physical condition of defendant.....	1
Total.....	282 282
Cases pending	155

CASES DISPOSED OF

United States District Court.....	1
Supreme Court of the State of Oregon.....	11
Circuit Court of Multnomah County, State of Oregon.....	125
District Court of Multnomah County.....	5
Circuit Court appealed from Municipal Court.....	282
Municipal Court	14,977
Total	15,401

CASES PENDING

Supreme Court of the State of Oregon.....	3
Circuit Court of Multnomah County, State of Oregon.....	81
Circuit Court appealed from Municipal Court.....	155
Total	239

GRAND SUMMARY OF COURT WORK

Civil Cases disposed of.....	142
Criminal cases disposed of in the Circuit Court.....	282
Criminal cases disposed of in the Municipal Court.....	14,977
Total	15,401
Civil cases pending	84
Criminal cases pending	155
Total	239

Respectfully submitted,

FRANK S. GRANT, CITY ATTORNEY.

PUBLIC AUDITORIUM

September 26, 1929.

HON. GEORGE L. BAKER, MAYOR, CITY OF PORTLAND:

Dear Sir: I beg to submit herewith the annual report of the Public Auditorium for the fiscal year from November 30, 1927, to December 1, 1928:

Number of times building used during year.....	257
Total attendance	329,611
Number of times main arena used.....	199
Number of times assembly rooms used	51
Number of times basement used	7
Number of times main arena used at full rental.....	172
Number of times assembly rooms used at full rental.....	44
Number of times basement used at full rental.....	1
Number of times main arena used at reduced rental.....	13
Number of times main arena used rent free	14
Number of times assembly rooms used rent free.....	7
Number of times basement used rent free.....	6

Following is report of receipts and disbursements:

Balance December 1, 1927.....	\$ 3,299.64
Receipts—	
Interest on daily balances.....	\$ 26.29
Rents	24,186.44
Payments by General Fund.....	7,500.00
Phone	8.66
Refund account material returned.....	16.20
Towels	2.70
Refund cash rotary account.....	600.00—
Transfers—	
Municipal Paving Rotary Fund.....	4,000.90
	\$39,626.97
Disbursements—	
Warrants paid and returned.....	\$36,281.75
Transferred to General Fund.....	753.20
Balance November 30, 1928.....	2,585.12
	\$39,620.07

Respectfully submitted,

H. M. WHITE,
MANAGER OF PUBLIC AUDITORIUM.

BOARD OF MOTION PICTURE CENSORS

ANNUAL REPORT OF SECRETARY TO BOARD OF MOTION PICTURE CENSORS

HIS HONOR, GEORGE L. BAKER, MAYOR OF PORTLAND:

Herewith is submitted the report of the Secretary to the Board of Motion Picture Censors for the fiscal year ending November 30, 1928.

That the work of the Board still remains a matter of vital importance is proved by the increasing confidence in the decisions of the Board by the general public, and its constantly diminishing resentment against the exclusion of films and eliminations.

The continued service of the group of ninety volunteer viewers who give most freely of their time in this branch of public work is a matter of congratulation.

The statistical report for the year is as follows:

Number of subjects viewed	1,950
Number of reels viewed	6,179
Number of Board meetings held	97
Number of permits issued	1,957
Number of subjects condemned	14
Number of reels condemned	62 1/2
Eliminations made in (subjects)	177
Number of linear feet of film viewed.....	6,197,000

The Board and viewers find that the introduction of the audiphone, or talking movie, into the field has seriously complicated the matter of viewing. It is most difficult, and in some instances almost prohibitive, to make eliminations because of the expense involved. One scene in one picture, if ordered cut out, would have cost the producer of the film the sum of \$18,000 or more. This, of course, calls for careful attention and consideration on the part of the Board in those cases where the viewers have ordered eliminations, as the verdict is a choice between approval and condemnation, instead of elimination of the objectionable scene.

It is with great satisfaction that the Secretary reports the hearty co-operation of the exhibitors with the Board. There has been but little evidence of antagonism or resentment against the Board's decisions.

As to the viewers, we can but repeat the suggestion that the City of Portland, through its commission, should give public expression of its appreciation of the service of the viewers.

Since the last report Mesdames Northrup and Cook have resigned their memberships on the Board and Mrs. Pat Allen and Robert Mount were appointed to the vacancies.

FINANCIAL REPORT

Personal service	\$2,452.50
Operation and maintenance.....	300.00
Equipment	50.00
	\$2,802.50

With sincere acknowledgement of the courtesy and continued co-operation of your honorable body with the work of the Board, I am, on behalf of the Board of Motion Picture Censors,

Yours very respectfully,

ELEANOR T. COLWELL,
SECRETARY TO BOARD.

Mrs. Pat Allen
Mr. Floyd Maxwell
Mr. Robert M. Mount, Chairman

ANNUAL REPORT
OF
THE COMMISSION OF
PUBLIC DOCKS

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

THE COMMISSION OF PUBLIC DOCKS

REPORT OF THE CHAIRMAN OF THE COMMISSION OF PUBLIC DOCKS

Portland, Oregon, December 1, 1928.

HON. GEORGE L. BAKER, MAYOR OF THE CITY OF PORTLAND, OREGON:

Sir: I herewith submit the annual report of The Commission of Public Docks for the fiscal year ending November 30, 1928.

It is with profound regret that I have to report the death, on February 13, 1928, of W. P. LaRoche, Counsel to the Commission since February 1, 1921. Mr. LaRoche's passing was a distinct loss to the Commission to which he had rendered service of inestimable value, as well as to his host of friends and associates in the City of Portland.

As now constituted The Commission of Public Docks consists of the following: John H. Burgard, Chairman; F. C. Knapp, Vice-Chairman; A. H. Averill, Ira F. Powers, E. S. Collins.

My term as Commissioner expired December 7, 1927, at which time I was reappointed by you for another five-year period.

By amendment to the City Charter November 8, 1910, The Commission of Public Docks was created a separate department of the City of Portland with duties and powers essentially as follows:

- (a) To prepare a plan for the reconstruction of the harbor front, provide for the needs of commerce, shipping, and the reconstruction of waterfront facilities.
- (b) To provide public owned docks.
- (c) To acquire by purchase or condemnation, such lands as may be necessary for the construction of public docks.
- (d) To have exclusive charge and control of the wharf property belonging to the City of Portland.
- (e) To have exclusive control of all privately owned city waterfront property.
- (f) To regulate, by ordinance and/or permit, all construction along the waterfront within the City Limits.
- (g) To establish and regulate wharfage and other charges to cover shipping operations over publicly owned and operated docks.

The Commission has been authorized to issue bonds to date in the sum of \$10,500,000.00. On November 30, 1928, there remained available for construction purposes the following:

Port of Portland 20-year, Series D, Portland Improvement and	
Equipment Bonds	\$393,000.00
Construction Fund	6,399.68
Unsold Dock Bonds (authorized \$10)	39,800.00
	\$499,199.68

The Commission of Public Docks has constructed, owns and operates the wharves, warehouses, grain elevator, coal and ore bunkers, cold storage plant, bulk oil and molasses handling and storage plant, and other facilities which comprise the Municipal Terminals Nos. 1, 2, 3 and 4.

Modern mechanical equipment provided includes locomotive cranes, car tipper, electric winches, freight elevators, adjustable ramps, cargo hoists, piling machines, gravity conveyors, and gasoline and electric tractors. All units have rail connections with ample trackage accommodation. A water depth approximately 35 feet at low water is maintained in slips and alongside piers or wharves. Facilities are provided to supply vessels with city water, telephones are installed along the face of transit sheds, and vessels may be connected to terminal light circuits. All the principal structures have automatic sprinkler system installed. Watchmen report through, and are checked up by the American District Telegraph Service. An adequate equipment of wheeled and hand fire extinguishers is distributed about the premises. A permanently employed fire inspector supervises all fire protection measures. At Terminal No. 4, the largest of the terminals, a fire engine is maintained.

During 1928, in addition to an extensive maintenance program on the wharves, improvements were made to the elevator and the loading out gallery at Terminal No. 4, costing approximately \$50,000.00, which will materially speed up the washing and delivery of grain to vessels.

All administrative business of the Commission is handled at the Main Office, foot of Stark Street.

A description of the properties of the Commission is appended to this report.

Wharfage and other terminal charges assessed by the Commission for use of its facilities and services are established by ordinance and set forth in a published tariff, Tariff No. 9, being the current issue. These charges are in the main on a parity with those assessed at other ports of the Pacific Northwest.

All ordinances passed by The Commission of Public Docks are matters of public record and are on file with the Auditor of the City of Portland and at the main office of the Commission.

During 1914, its first year of operation, the Commission handled a total of 31,373 tons, and for the year ending November 30, 1928, a total of 375,534 tons passed over its terminals. While this is a decrease of 210,984 tons over 1927, this decline in tonnage is largely accounted for by the slow wheat movement which has been directly affected by the world market conditions, the low prices slowing materially the export movement of wheat.

Pursuant to Sub-division "K" of Section 163 of the City Charter, and to the statutes of the State of Oregon, and more particularly Section 8 of Chapter 208 of the general laws of Oregon for 1921. The Commission of Public Docks notified the County Clerk and the County Assessor that tax levy of the department for the fiscal year ending November 30, 1928, had been fixed at \$764,939.15, of which sum \$738,547.98 was for bond interest and redemption purposes.

Pursuant to Section 163 of the Charter of the City of Portland, as

revised by the Council August 1, 1914, there is appended hereto the financial statement, with itemized account of revenues from operations and all receipts and disbursements for the fiscal year.

Appended hereto, and in addition to matters pertaining to the report of The Commission of Public Docks are statistics and information of a general nature, which it is hoped will prove of interest and value to shippers and others using the terminal facilities, public or private, in this Port.

Respectfully submitted,

JOHN BURGARD, CHAIRMAN.

PROPERTIES AND FACILITIES OF THE COMMISSION OF PUBLIC DOCKS

TERMINAL NO. 1

Location—Foot of North Seventeenth Street (West Side).
Accommodates—European, inter-coastal, and local trans-Pacific traffic.
Berths—Five vessels.
Shed area—349,600 square feet.
Open area—78,500 square feet.
Trackage—Working capacity 91 cars; accommodates 140 cars.
Equipment—20-ton locomotive crane, gasoline and electric tractors, cargo masts, freight elevators, etc.

Units	Length	Transit Shed
Quay dock—berthing space (harbor).....	955 lin. ft.	147x935 ft.
Pier "A"—berthing space (slip).....	484 lin. ft.	176x322 ft.
Pier "B"—berthing space (slip).....	500 lin. ft.	187x494 ft.
Pier "B"—berthing space (harbor).....	457 lin. ft.	
Warehouse No. 1.....	Storage shed	190x200 ft.

TERMINAL NO. 2

Location—Foot of East Washington Street.
Accommodates—Coastwise and local river traffic.
Berths—One vessel.
Shed area—Upper level, 52,000 square feet; lower, 52,100 square feet.
Open area—50,000 square feet.
Trackage—Working capacity 15 cars; accommodates 20 cars.

Units	Length	Transit Shed
Quay dock—berthing space.....	526 lin. ft.	100x526 ft.

TERMINAL NO. 3

Location—Foot of Pittsburg Street (East Side).
Accommodates—Local traffic—transit and warehousing.
Berths—One vessel.
Shed area—44,000 square feet.
Open area—21,400 square feet.
Trackage—Working capacity 19 cars; accommodates 27 cars.

Units	Length	Transit Shed
Quay dock—berthing space.....	560 lin. ft.	100x440 ft.

TERMINAL NO. 4

Location—Foot of Burgard Avenue (East Side—Lower Harbor).

Accommodates—Trans-Pacific, transcontinental traffic—full cargo of all traffics, and the handling of all bulk commodities.

Shed area—586,360 square feet.

Open area—211,140 square feet.

Trackage—Working capacity 425 cars; accommodates 800 cars.

Equipment—Two locomotive cranes (of 15 tons and 25 tons capacity), switch engine, tractors, freight elevators, cargo masts, gravity and power conveyors, etc.

	Units	Length	Transit Shed
Pier No. 1 (main pier) berthing space (slip).....	1,500	lin. ft.	180x1,500 ft.
(Harbor extension) berthing space (harbor)....	605	lin. ft.	150x 328 ft.
Pier No. 2—berthing space (slip).....	1,500	ft.	166x 715 ft.
Berthing space (harbor).....	300	ft.	
Pier No. 5—berthing space (slip).....	900	ft.	
Berthing space (harbor).....			665 ft.
Open wharf			99,840 sq. ft.

Bunkers and Bulk Storage Plant

Location—Adjoining Pier No. 5.

Storage Capacity—10,000 tons (concrete bins), utilized for coal, concentrates, ore, phosphate rock and other bulk commodities.

Equipment—Unloading and handling facilities, conveyor belts, traveling ships towers, and box car unloader (car tipper).

All machinery electrically driven.

Bulk Oil and Storage Plant

Located—Adjacent to Piers 1 and 2.

Storage Capacity—1,486,800 gallons (14 steel tanks).

Utilized for—Bulk vegetable oils.

Equipment—Heating plant, two 60-ton steel tank scales, electric pumps (including a two-stage turbine sinking type ship pump with capacity of 165 tons bulk oil per hour), compressed air and steam plant, and facilities for barreling or bulking oil, loading cars and cleaning tank cars. Double mains from plant to Piers 1 and 2.

Cold Storage Plant

Located—Adjoining Pier No. 1.

Construction—Hollow tile; standard insulation.

Capacity—105,000 boxes apples.

Equipment—Brine system of refrigeration, electric fan air ventilation system, duplicate machinery, gravity conveyors.

Fruit Warehouse

Located—Connecting Pier No. 1 and Cold Storage Plant.

Construction—Hollow tile.

Capacity—250,000 boxes apples.

Equipment—Electrically driven ventilated system, insulated doors and windows, gravity conveyors.

Bulk Grain Elevator

Located—Adjacent to Pier No. 1.

Construction—Reinforced concrete.

Storage Capacity—1,000,000 bushels.

Car unloading capacity (bulk) 15,000 bushels per hour.

Ship loading capacity (bulk) 30,000 bushels per hour.

Equipment—5 smutters, 3 separators, 2 double and 2 single-cylinder washers, bulk power shovels, electric car pullers and dust collecting system. All machinery electrically driven.

Note—Part of Pier No. 1, designated as Grain Section of Pier, is equipped with sacking out facilities, belt conveyors connecting with elevator and appliances for unloading, handling and cutting in sacked wheat. A two-belt shipping gallery connecting with elevator extends the full length of Pier No. 1. It is equipped with four movable trippers and 12 loading spouts.

Additional Features

A commodious Administration Building containing the offices of the operative and clerical staff of the Terminal. The Federal and the State Grain Inspection Bureau both maintain offices and laboratories in this building.

A Welfare Building fitted with shower baths, rest rooms, etc., is maintained for the comfort and convenience of employes.

The Cafeteria, a separate building equipped with all modern culinary appliances. The Dining Room is large enough to comfortably seat 200 persons. This building was constructed to insure restaurant accommodation to employes and patrons of the Terminal.

Offices provided on Pier No. 1 for the Inspectors of the United States Customs Service.

The Trans-Continental Railroads maintain a joint agency at this Terminal. Offices of agent and staff are located on Pier No. 1.

A Standard Track Scale is installed on premises. It is operated under the supervision of the Trans-Continental Freight Bureau.

A Fumigation Plant has been constructed on the premises by private interests. The plant contains modern machinery for the successful fumigation of all commodities. Operated under State and Federal Horticultural Board Supervision.

A Flour Mill with capacity of 1500 barrels per day is located on land leased from The Commission of Public Docks. Conveyors connect Mill with Grain Elevator for receipt of wheat and with Pier No. 1 for delivery to vessels of mill products.

The Commission of Public Docks has reserved part of the 211 acres comprising the site of Terminal No. 4 for future construction and expansion. A certain portion, however, has been designated for industrial sites and is available for lease to private enterprise.

OTHER PROPERTIES**Public Levee Property**

Situated between Harbor Line and Water Street and extending from Jefferson to Clay Street (West Side). Tract contains 4.76 acres.

Woodward Avenue Boat Landing

Located at the foot of Woodward Avenue (East Side). A float, ramp and stairway approach provide landing accommodations for small water craft.

Stark Street Boat Landing and Main Offices

This property, located at the foot of Stark Street, is equipped with landing float and adjustable ramp for the accommodation of small craft.

The administrative offices of The Commission of Public Docks are contained in the two-story concrete building erected over the Municipal Boat Landing at the foot of Stark Street.

THE COMMISSION OF PUBLIC DOCKS

BALANCE SHEET — THE COMMISSION OF PUBLIC DOCKS OF THE CITY OF PORTLAND, OREGON,
FISCAL YEAR ENDED NOVEMBER 30, 1928
CAPITAL ACCOUNTS

ASSETS		LIABILITIES	
Cash		Bonds Authorized	\$10,560,000.00
Real Estate—		Less Bonds Unsold	99,800.00
Terminal No. 1	\$1,310,945.31	Less Bonds Redeemed ..	\$10,460,200.00
Terminal No. 2	855,582.47	Bonded Debt	\$ 1,910,200.00
Terminal No. 3	41,119.40	Surplus	\$8,550,000.00
Terminal No. 4	204,944.74		1,195,072.89
Public Levee	655.00		
Ferry Landing	10.00		
Plant—			
Terminal No. 1	\$1,077,842.08		
Terminal No. 2	293,109.34		
Terminal No. 3	5,439.14		
Terminal No. 4	5,763,669.85		
Street Railway	63,587.88		
Stark Street M. B. L. ..	66,241.29		
Woodward Ave. M. B. L.	4,740.27		
Equipment—			
Terminal No. 1	\$ 20,706.47		
Terminal No. 2	2,491.30		
Terminal No. 3	311.20		
Terminal No. 4	72,452.10		
General	6,195.75		
Harbor Patrol	10,149.84		
Securities	112,086.76		
	393,000.00		
	<u>\$9,745,572.80</u>		\$9,745,572.80

THE COMMISSION OF PUBLIC DOCKS

BALANCE SHEET — THE COMMISSION OF PUBLIC DOCKS OF THE CITY OF PORTLAND, OREGON,
FISCAL YEAR ENDED NOVEMBER 30, 1928
OPERATING ACCOUNTS

ASSETS		LIABILITIES	
Cash	\$ 273,792.99	Accounts Payable—	
General Fund	14,000.00	Purchases	\$ 23,548.72
Boat Landing Fund	20,000.00	Reserve—	
Revolving Fund	20,000.00	Emergency	\$ 175,500.00
Insurance Fund (Special ..)	9,267.69	Insurance	34,449.71
Uncalled For Checks (Special ..)	23,640	Unpaid Taxes	162,948.40
Emergency Fund	500.00	Uncalled for Checks ..	130.40
Securities—		Balance	379,156.36
Emergency Fund	\$ 177,000.00		\$455,611.58
Insurance Fund (Special ..)	30,000.00		
General Fund	141,000.00		
Accounts Receivable	\$ 30,875.38		
Customers' Accounts	40,000		
Less Reserve — Road Accounts	\$ 30,475.38		
Net Accounts Receivable	162,966.68		
Taxes Receivable	75.00		
Notes Receivable	193,519.07		
	<u>\$ 860,317.15</u>		\$ 860,317.15

THE COMMISSION OF PUBLIC DOCKS

SINKING FUND ACCOUNTS		LIABILITIES	
ASSETS			
Cash	\$ 61,252.76	Reserve	\$ 942,300.00
Securities	956,550.00	Sinking Fund Surplus	75,452.76
	\$1,017,752.76		\$1,017,752.76
Prepaid Insurance	\$ 31,073.33	DEFERRED ACCOUNTS—GENERAL FUND	
		Future Taxes—Prepayment	\$ 3,281.38
		Balance	27,846.95
			\$ 31,073.33
Discount on Bonds Sold	\$ 439,762.50	DEFERRED ACCOUNTS—CAPITAL FUND	
		Premium on Bonds Sold	\$ 93,823.40
		Balance	415,939.10
			\$ 439,762.50
Suspended Charges to Surplus	\$ 207,285.16	AMORTIZATION OF BOND DISCOUNTS AND PREMIUMS	
		Accrued to November 30, 1928	\$ 207,285.16
Capital Account Surplus		SUMMARY OF BALANCES	
Operating Account Surplus		Capital Account Surplus	\$1,195,573.80
Sinking Fund Surplus		Operating Account Surplus	455,611.63
Deferred Charges—General Fund		Sinking Fund Surplus	75,452.76
Deferred Charges—Capital Fund		Deferred Charges—General Fund	27,846.95
		Deferred Charges—Capital Fund	415,939.10
			\$2,170,424.24

THE COMMISSION OF PUBLIC DOCKS

HARBOR AND PORT

It has been authoritatively stated that the great commercial cities of the world are almost invariably found at the head of navigation. Distance from the sea is more than offset by the proximity of an inland port to sources of production and to centers of distribution and population. Portland, Oregon, in 1850, a village of a few hundred inhabitants and accessible only to vessels of light draft and small tonnage, is in 1929 a city of an estimated population of 347,000, and one of the major ports of the Pacific Coast. Situated at the head of ocean navigation, approximately 96 nautical miles from the sea, its position geographically is similar to that of the great port city of Hamburg, Germany, or to the American ports of Philadelphia and New Orleans. Ocean, inland water and rail transportation meet at the Harbor of Portland. Here ocean shipping is offered the advantages of a fresh water harbor, and rail shipping the advantage of water grade haul.

The City of Portland occupies both banks of the Willamette River, a few miles above the confluence of the Willamette with the Columbia River. The harbor proper, formed by the Willamette River, has a width of from 900 to 1600 feet between its established lines and affords nearly 27 miles of water frontage within the corporate limits of the City. A considerable portion of this frontage is now occupied by public and private terminals, grain, oil, and lumber wharves, bunkers, grain elevators, dry docks, shipyards and various industries. These combined waterfront facilities offer nearly 7 miles of berthing space for the accommodation of the shipping of the Port. The mean tidal range at the mouth of the Columbia River is 7.5 feet. The harbor at Portland, however, is free from noticeable tidal effect except during stages of extreme low water, and then the effect does not exceed 2 feet.

With a least channel depth of 30 feet at low water already existing, a new project for a 35-foot low-water depth was adopted for the Willamette. The new depth is being gradually established throughout the harbor.

Columbia River Entrance

The Columbia River entrance, because of its ample depth and width and its comparative freedom from heavy fogs, is now one of the safest and best river harbor entrances in the world. The survey of the entrance made by the U. S. Engineers in May, 1928, shows a depth of 47 feet at mean lower low water for a width of 2700 feet; 46 feet for a width of about 3500 feet, and 40 feet for an approximate width of 6800 feet. The U. S. Engineer's survey of 1924 only showed a channel depth of 45 feet at low water for a width of about 1200 feet, and a depth of 40 feet for a width of 7000 feet. Comparison of the figures of these two surveys proves that the scouring process due to jetty construction has made the entrance depth self-improving and self-sustaining, and indicates that in a few years the low water depth will be 50 feet. Both entrance and channel are adequately marked by lightship, bell and gas buoys, and permanently lighted ranges.

Channel

The Federal project for the 30-foot depth ship channel from Portland to the Pacific Ocean has been completed for several years. This project originally called for a low-water depth of 30 feet for a width of not less than 300 feet in straight courses, and of 500 to 600 feet in turns. Since completion of the project this depth has been maintained while the width has been considerably increased, particularly at turns. This has been accomplished with but a minimum of dredging, permanent contraction dikes having practically stabilized the channel. While the present channel has proved ample to accommodate vessels of the deepest draft plying in the Portland trade routes, a project for a 35-foot channel with a minimum width of 500 feet was inaugurated several years ago. This was done in anticipation of the trend in modern shipping toward construction of larger cargo carriers. The 35-foot project has been recommended and approved by the Board of U. S. Army Engineers and was included in the Rivers and Harbors Bill which was pending at the adjournment of Congress. It is now in the hands of the House Committee and its authorization at the next session of Congress is practically assured.

Harbor Protection

The Harbor Patrol, an efficient organization directly under the supervision of the Harbor Master, is responsible for the enforcement of harbor regulations and the policing of the harbor. A day and night patrol is maintained. The patrol boat, "F. W. Mulkey", of recent construction, is fitted with Diesel engines and equipped with salvage pumps.

Fire hazard to shipping and to the industrial waterfront has been reduced to a minimum by the protection assured from three new and powerful steel-hulled fireboats stationed at strategic points about the harbor. These vessels, the last word in modern fireboat construction and especially designed for the needs of Portland harbor, were completed and placed in service last year. Each boat is 85 feet in length with 20-foot beam and a draft of 5 feet 6 inches, and is fitted with twin screw propellers driven by four Sterling-Viking gasoline motors developing a speed of 13 miles per hour. The pumping equipment of each boat consists of four Byron-Jackson Centrifugal Pumps with a capacity of 10,000 gallons per minute at 200 pounds pressure. Special features are: Control of all machinery from pilot house, electrically operating steering gear, and air-controlled clutches.

Waterfront Project

This huge Municipal development program has for its object both the improvement and the beautification of the harbor waterfront. A comprehensive plan worked out by the City Engineers and the City Planning Commission embraces straightening out the harbor lines, construction of a vast sea-wall along the river front, an adjacent esplanade, and the construction of an intercepting sewer and sewerage pumping plant. Further improvements contemplate removal of rail lines from the congested streets of the business district and their re-routing along the harbor front. The construction to a central public market building is also contemplated. This will

relieve congestion from the streets where the public markets are now located.

Actual construction of the first west side unit of this project was begun in January, 1927, and will be completed early in 1929. The concrete sea-wall, 5400 feet in length, has been built from Jefferson Street to Flanders Street, and the intercepting sewer is constructed for the full length of the wall. The wall is built to an elevation of 29.3 feet above low water. Over 13,000,000 feet of lumber were used in the construction of the crib foundation; and 57,000 cubic yards of concrete and 500 tons of steel in the construction of the wall. In addition, 1,000,000 cubic yards of material were dredged from the river to complete the fill back of the wall. Four boat landings have been provided—namely, at Stark, Davis, Ankeny and Salmon Streets,—and provision has been made for the installation of cargo elevators for use of river boats, at the foot of Washington and Alder Streets. The sewerage pumping plant, when completed, will have a capacity of 110,000 gallons per minute.

The cost of this first unit, including the sea-wall, intercepting sewer, pumping plant, and fill, will approximate \$2,500,000. The contemplated esplanade for which easements are now being procured, will occupy a strip 25 feet wide along the entire length of the wall and the belt line tracks will occupy an adjacent strip 33 feet wide.

Ship Quarantine Station

In compliance with the petition of the Portland Steamship Operators, the United States Public Health Service obtained permission in 1928 to establish a ship quarantine station at Portland, Oregon. Through the courtesy of The Commission of Public Docks in offering free space for offices, storage of fumigants, and berthing space for the Government launch, headquarters were established at Municipal Terminal No. 4 and the quarantine anchorage located about one-quarter of a mile below this terminal. Dr. M. K. Oxture, the efficient officer formerly in charge of the Astoria station, was transferred to Portland and placed in charge of the new station. Vessels from foreign ports may now enter the Columbia and steam direct to Portland without being delayed by having to clear quarantine at Astoria.

THE PORT OF PORTLAND COMMISSION

The Commission of Public Docks, a purely Municipal corporation, created as a separate department of the City of Portland, owns and operates the Municipal Terminals, and regulates all waterfront construction within the City Limits. Port matters, however, such as harbor and channel maintenance, dredging, and the operation of dry docks, harbor towage service and airport, are within the jurisdiction of The Port of Portland Commission. This Commission is a quasi-Municipal corporation separate from both the City and county, but encompassing all of the City of Portland in its taxable district.

Channel and Harbor Improvements

During the 37 years that The Port of Portland Commission has functioned its main object has been the improvement of the harbor at Portland and of the channel to the sea. In conjunction with the Federal Government, it has provided and maintained the ship chan-

nels in the Willamette and Columbia Rivers. The present excellent condition of these channels is the result of the joint efforts of these two agencies. The Port of Portland and Federal Government have each expended approximately \$10,000,000 on channel improvements. The Government has expended an additional \$16,000,000 on the improvement of the entrance to the Columbia River. In its harbor and channel work the Port of Portland operates a fleet of four 30-inch pipe line dredges, augmented by several clam shell diggers. The channel of the Columbia River having been practically stabilized by virtue of the permanent contraction dikes constructed by the United States Engineers. The Port of Portland Commission, for the past two years, has been able to devote its energy and utilize this equipment in the improvement of the harbor of Portland. The channel of the harbor has been generally deepened and widened, over 900 acres of land have been reclaimed and made available for industrial purposes and the Swan Island project has been practically completed. The main purpose of this project was to create an area and fairway connecting the central with the lower harbor and eliminating a hazardous and narrow stretch known as the East Swan Island Channel. In the furthering of this project, Swan Island, already owned by the Port, was reclaimed, filled to a grade above flood waters and connected to the mainland by a filled causeway, thus making available the splendid site of the Portland Airport.

Airport

The Airport of the Port of Portland is located upon Swan Island, a 253-acre tract lying within the central harbor. The main landing field is 1200 feet wide by 6700 feet long. A still water basin for the use of hydroplanes lies along the east side of the landing field. This basin is 700 feet wide and $\frac{1}{4}$ miles long. The whole area of the landing field has been seeded to produce a heavy turf. Roadways, runways, and hangars have been constructed and field lighting and incidental facilities have been provided. The Airport is free from border obstructions and the operating surface of sod is safe and practical for the landing of planes under all weather conditions. Its location is close to the business center, being not more than a 12-minute drive by automobile from the Central Postoffice and the railway terminals. Operation and maintenance of the Airport remains under the direct control of The Port of Portland Commission. It is already utilized by passenger, express and mail planes and by a general service operating organization.

Dry Docks

In addition to the channel and harbor work and to the operation of the Airport, the Port of Portland owns and operates two sectional floating dry docks at Portland. These docks are operated without profit for the service of shipping and are open to vessels and repair contractors on equal terms. The description of the dry docks follows:

	Dry Dock No. 1	Dry Dock No. 2
Length	468 feet	492 feet
Width between wings	82 feet	94 feet
Depth of water over keel blocks	25 feet	27 feet
Lifting capacity (Deadweight)	10,000 tons	15,000 tons
Number of pontoons	5	5

All necessary auxiliary equipment is available at the dry docks such as cranes, floats, scaffolds, compressed air, electricity, etc. The repair shops of the Port of Portland for maintenance of its own plant are located at the dry dock plant and are available for the use of ship repair contractors.

There are several independent ship repair contractors operating at Portland and vessels are assured of competitive conditions in contracting for repair work.

Harbor Towing

Another function of the Port of Portland is the operation and maintenance of the harbor towing service. Powerful stern wheel tow boats are always available to facilitate the shifting of all vessels about the harbor. This service is of particular value to vessels taking advantage of time in port to scale boilers and repair machinery. The rates, which are reasonable, are covered by the published rules and tariff of the Port of Portland.

CIVIL SERVICE BOARD

ANNUAL REPORT

OF

THE CIVIL SERVICE
BOARD

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

CIVIL SERVICE BOARD

January 1, 1929.

TO THE HONORABLE MAYOR AND CITY COMMISSIONERS OF PORTLAND,
OREGON, CITY HALL:

Gentlemen: The Civil Service Board herewith submits its report for the fiscal year ending November 30, 1928.

The outstanding feature of the year's work of the Board was the unprecedented number of applicants for examination for Patrolman, Park Helper and Junior Captain, Bureau of Fire.

Examination of the record will also show that the temporary employe, except in the Bureau of Water Works, was not quite the problem of previous years. As to the Bureau of Water Works, most of its temporary employes were used on work outside the city limits.

Rules V, VI, VII, VIII, IX and XII were amended to clarify certain clauses deemed more or less indefinite.

The following tabulation of examinations held in the fiscal year ending November 30, 1928, shows the dates and results of each:

EXAMINATIONS HELD FROM DECEMBER 1, 1927, TO DECEMBER 1, 1928

Position	Date	Applicants	Participants	Men Passed	Women Passed	Ex-Service Men Who Passed	Registrations	Appointments
Engineering Clerk	Dec. 20-1927	14	12	3	Cancelled	2	3	
Gardener	Dec. 20-1927	14	11	Cancelled	Cancelled	Cancelled	41	
Engineer Harbor Patrol	Sept. 18-1928	18	15	8			42	
Engineer Inspector of Electricity	Dec. 23-1927	7	6	3		2	5	
Chief Engineer, Fire Bureau	Dec. 30-1927	13	10	3		2	31	
Junior Captain, Fire Bureau	Jan. 17-1928	12	12	12				1
Park Helper	Jan. 31-1928	173	171	438		87	17	18
Janitor and Elevatorman	Feb. 6-21-1928	449	440	154		74	495	13
Master or Pilot, Fire Boat	Mar. 5-20-1928	71	71	40		9	109	
Information Clerk, Dock Commission	Mar. 23-1928	7	6	6		3	22	2
Patrolman	Mar. 23-1928	13	13	1	11	1	14	4
Deputy Inspector of Licenses	Apr. 20-1928	892	757	644		255	1,718	
Auto Mechanic	Sept. 18-1928	32	29	21			9	2
Stenographer, City Atty. and Mun. Court	Sept. 21-1928	38	35				75	
Hydrantman (Machinist)	Sept. 25-1928	10	9				13	1
Cost Accountant, Water Bureau	Sept. 28-1928	22	19	11	6	1	86	
	Oct. 30-1928	15	15			Cancelled	21	

SPECIAL EXAMINERS

The charter provides that "no examiner shall receive any compensation for his services as such." Notwithstanding the gratuity of the work, the Board had the best support from those who were requested to aid in the technical examinations. The following have given their time and energy:

- Harvey Black, George Black & Company.
- Harvey Blakeslee, Chief Clerk, Police Bureau.
- L. E. Burdick, Deputy and Clerk, Auditor's office.
- James Dillane, Battalion Chief, Fire Bureau.
- Wm. C. Epps, Lieutenant of Police, Police Bureau.
- Frank Ervin, Captain of Police, Police Bureau.
- A. C. Feyerabend, Hydrantman (machinist).
- Lew. W. Going, Chief Inspector of Electricity.
- H. A. Goode, Chief Clerk, Public Utilities.
- Wm. D. Heath, Battalion Chief, Fire Bureau.
- Leon V. Jenkins, Chief of Police.
- H. C. Johnson, Battalion Chief, Fire Bureau.
- H. M. Niles, Lieutenant of Police, Police Bureau.
- A. W. Nussbaumer, Arboriculturist and Asst. Arboriculturist.
- Walter B. Odale, Patrolman (Inspector Class A).
- W. D. Olden, Electrical Instrumentmaker.
- K. A. Prehn, Engineer Harbor Patrol.
- J. V. Savage, Auto Mechanic (foreman).
- Mrs. Esther A. Short, Shorthand Instructor, N. W. School Com.
- R. R. Shawcross, Ass't Commissioner, Dep't Public Works.
- W. A. Tyler, Sergeant of Police, Police Bureau.
- F. M. West, Captain of Police, Police Bureau.

TEMPORARY APPOINTMENTS

The following tabulation shows the number of temporary appointments in each department each month of the fiscal year:

	Dept. Public Works	Dept. Public Utilities	Dept. Public Affairs	Dept. Public Safety	Finance	City Auditor	Total for Months
December, 1927	14	58	30	24	11		137
January, 1928	22	57	43	19	17		158
February	15	58	47	21	14	1	156
March	21	53	50	17	19		160
April	44	107	91	21	20	1	284
May	61	84	95	23	18	2	283
June	30	88	101	24	26	4	273
July	35	99	92	26	52	3	307
August	107	121	91	26	88	2	435
September	89	120	97	18	56		380
October	70	122	68	15	32		307
November	45	85	37	10	27		204

In any consideration of the foregoing table, account must be taken of the large number of temporary employes of the Water Bureau outside the City limits, incident to the work on the new Bear Creek dam, pipe line maintenance and temporary employes on various tasks in the Bull Run Reserve. The total number of such employes was subject to constant change due to the fluctuating character of the work, fires in the reserve and to weather conditions.

The number of such employes in the Water Bureau for the fiscal year follows:

December	1927	—	50
January	1928	—	47
February	1928	—	49
March	1928	—	43
April	1928	—	98
May	1928	—	73
June	1928	—	71
July	1928	—	75
August	1928	—	86
September	1928	—	87
October	1928	—	77
November	1928	—	69

Of the temporary appointees in the city service inside the city limits most of them were from existing eligible lists. Only in emergency cases where eligibles declined temporary work, were appointments made outside the lists.

The November payrolls showed 2,101 Civil Service employes and 204 employes not under charter or civil service provisions. They were distributed throughout the city employment as follows:

Department	Under Charter	Under Civil Service	Not Under Charter or Civil Service
Public Safety	20	452	10
Public Works	2	267	45
Finance	5	256	27
Public Utilities	85	324	85
Civil Service	1	2	0
Auditor's Office	1	36	0
Public Affairs	1	729	37
Dock Commission	182	35	0
Total	297	2,101	204
Grand Total			2,602

LITIGATION

Arthur L. Pullen vs. the City of Portland, C. A. Bigelow, John F. Logan, Geo. C. Mason, Harvey Wells, W. E. Marion and Edward Grenfell.

Writ of review to test validity of discharge of plaintiff from Fire Bureau. Plaintiff appealed to Supreme Court from judgment in favor of the city. Dismissed on application of appellant. As the year closed the Civil Service Board was not in litigation.

SUMMARY

The following summary is a recapitulation of the year's work for 1928:

Total number of registrations for examinations held during the year	2,701
Total number of examinations filed	1,800
Total number of examinations held	17
Total number of appointments in classified service	287
Total number of reappointments	106
Promotion examination appointments	36
Resignations	33
Discharged for cause	31
Hearings on appeal from order of discharge	6
Results of hearings:	
Restored to duty after suspension	3
Discharges sustained	3
Deceased	16
Pensioned	11
Leaves of absence granted by City Council	38
Positions abolished by City Council	6
Number of laid-off employes	172
All leaving service	91
All entering service	145
In service November 1928	2,602

Respectfully submitted,

CIVIL SERVICE BOARD,

JOHN F. LOGAN, PRESIDENT,

HARVEY WELLS, COMMISSIONER.

O. C. BORTZMEYER, COMMISSIONER.

ANNUAL REPORT
OF
THE DEPARTMENT OF
PUBLIC WORKS

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

DEPARTMENT OF PUBLIC WORKS

ORGANIZATION

A. L. BARBUR
COMMISSIONER

ASSISTANT COMMISSIONER—
R. SHAWCROSS

CITY ENGINEER—
O. LAURGAARD

Bureau of Construction—
L. G. APPERSON, Chief

Bureau of Maintenance—
O. E. STANLEY, Chief

BUREAU OF BUILDINGS—
H. E. PLUMMER, Chief

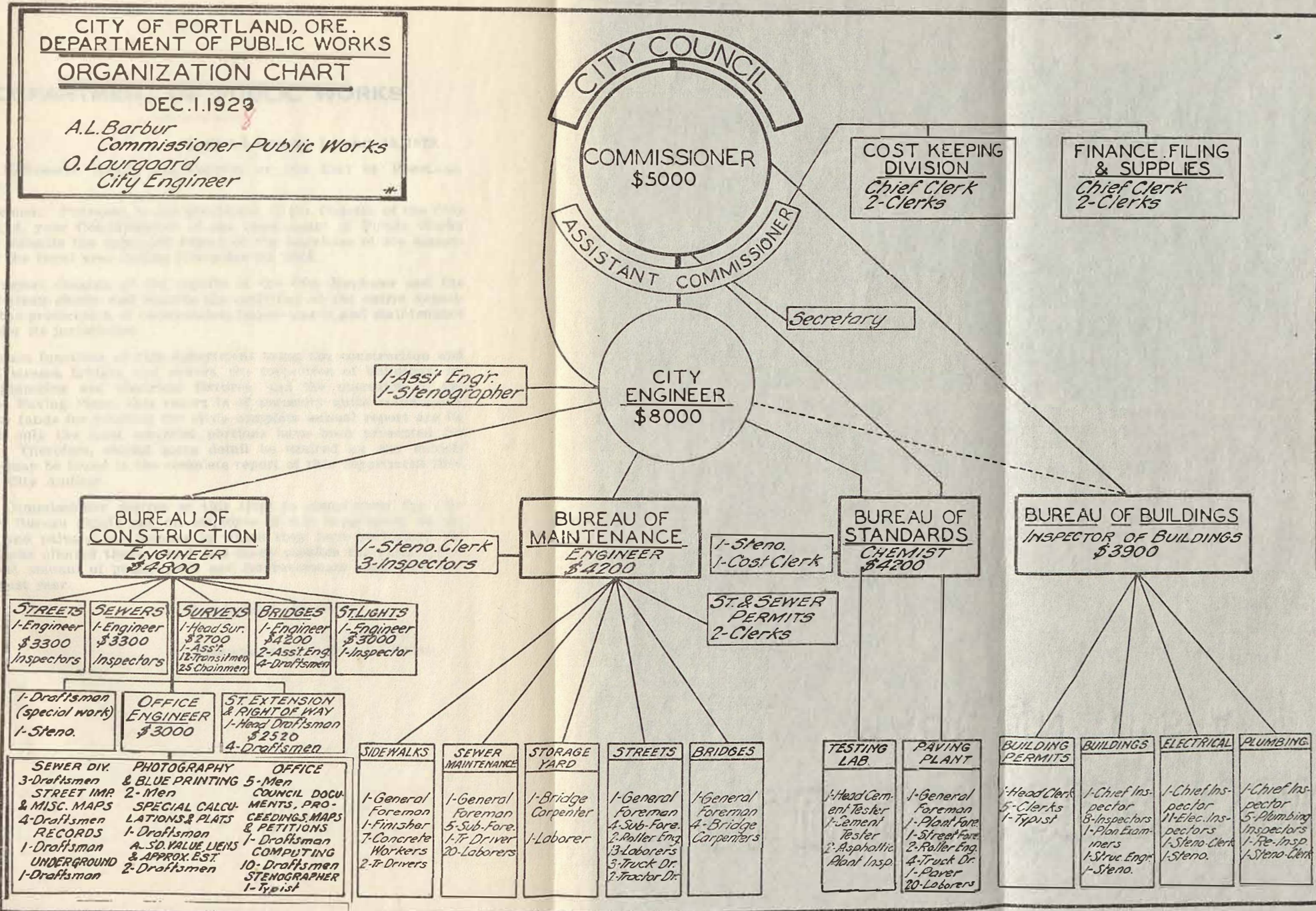
BUREAU OF STANDARDS—
R. S. DULIN, Chief

MUNICIPAL PAVING PLANT—
R. S. DULIN, Superintendent

CITY OF PORTLAND, ORE.
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART

DEC. 1. 1929

A.L. Barbur
Commissioner Public Works
O. Laurgaard
City Engineer



DEPARTMENT OF PUBLIC WORKS

Portland, Oregon, January 15, 1929.

TO THE HONORABLE MAYOR AND COUNCIL OF THE CITY OF PORTLAND,
OREGON:

Gentlemen: Pursuant to the provisions of the Charter of the City of Portland, your Commissioner of the Department of Public Works herewith submits the appended report of the activities of his department for the fiscal year ending November 30, 1928.

This report consists of the reports of the City Engineer and the various bureau chiefs, and records the activities of the entire department in the prosecution of construction, improvement and maintenance work under its jurisdiction.

The main functions of this department being the construction and repair of streets, bridges and sewers, the inspection of buildings, including plumbing and electrical fixtures, and the operation of the Municipal Paving Plant, this report is of necessity quite voluminous, but as the funds for printing the city's complete annual report are insufficient only the most essential portions have been presented for printing. Therefore, should more detail be desired on any subject the same may be found in the complete report of this department filed with the City Auditor.

Your Commissioner desires at this time to compliment the City Engineer, Bureau Chiefs and all employes of this department on the efficient and painstaking manner in which they have performed the various tasks allotted them, which has made possible the culmination of the vast amount of public work and improvements completed during the past year.

Respectfully submitted,

A. L. BARBUR,
COMMISSIONER OF PUBLIC WORKS.

OFFICE OF CITY ENGINEER

The year 1928 may be considered a normal year in the amount of street and sewer improvements completed and ornamental lighting systems installed; with the usual maintenance of public works, and the usual routine office work incident to new construction and maintenance. Progress has been very satisfactory on the Front Street Intercepting Sewer and Drainage System; the intercepting sewer proper was completed early in the year, while work upon the bulkhead wall and pumping plant has progressed to the stage that the entire project will be ready for operation in 1929.

The work of this office will be increased for the next two years on account of the passage of a bond issue in the November election for an extensive street widening program. The amount of bonds authorized is \$3,170,000, which will cover approximately 50 per cent of the total cost of acquiring property for these street widenings. It is expected that most of the reports of the City Engineer setting out the awards of damages and the assessment of benefits upon these projects will be filed during the year 1929, and that the improvement work in connection therewith will be done in 1930. The streets to be widened under this bond issue are listed below:

Burnside Street from Third Street to Park Street, and intersecting streets from the south.

Jefferson and Chapman Streets.

Union Avenue from Going Street to Division Street.

East Morrison Street from Grand Avenue to East Twelfth Street.

Foster Road from Seventy-second Street Southeast to Eighty-second Street Southeast.

East Broadway from Union Avenue to Sandy Boulevard.

East Burnside Street from East Thirteenth Street to East Thirty-second Street.

East Eighty-second Street from Sandy Boulevard to Prescott Street.

ORGANIZATION

There have been no major changes in the organization of the various bureaus under the City Engineer during the year. Mr. L. G. Aption has continued in his position as Chief of the Bureau of Construction, Mr. O. E. Stanley, Chief of the Bureau of Maintenance, and Mr. R. S. Dulin, Chief of the Bureau of Standards.

In the Bureau of Construction, Mr. Apperson has for his assistants Mr. Jess Hannam and Mr. C. H. Smith, engineers of street improvements and sewer construction respectively; Mr. F. T. Fowler, bridge engineer; Mr. C. H. Lundell, electrical engineer, and Mr. L. F. Schuele, chief draftsman. Mr. H. G. Richardson, who has charge of the Survey Department, has just completed twenty-five years of service with the City of Portland.

The Bureau of Maintenance has been in charge of Mr. O. E. Stanley assisted by Mr. Chas. A. Robinson, general foreman of sewer maintenance; Mr. J. K. Carr, general foreman of street maintenance; Mr.

Nels Reed, general foreman of bridge maintenance, and Mr. R. F. Hurlburt, general foreman of sidewalk maintenance, reconstruction and repair. Mr. John T. Shannon, inspector, has had charge of new construction, maintenance and repair of track work throughout the City, special applications for driveways, loading platforms, use of street area, gasoline and fuel oil tanks, gasoline curb pumps, and many other matters referred to him by the City Engineer. The public office of the City Engineer's organization has been in charge of Mr. H. A. Demmer who also looks after the issuance of permits to public utility companies, plumbers, and others desiring to excavate within street areas.

The Bureau of Standards is headed by Mr. R. S. Dulin, who also holds the position as Superintendent of the Municipal Paving Plant. Mr. Oscar Beck, testing engineer, is in charge of the division making physical tests of all materials used in public work construction. Mr. R. S. Dulin is assisted by Mr. Fred Younger, general foreman, in the operations of the paving plant.

NEW CONSTRUCTION WORK

During the year there were constructed street improvements including pavement, sidewalks and curbs, grading, viaducts and street lighting in the amount of \$1,827,301.00, of which approximately 64 per cent of the total was on the east side of the Willamette River. The total cost of sewers built during the year amounted to \$488,195.00. The above figures do not include the 6 per cent for engineering which is added to the cost and assessed by the City Auditor, the figures being the final estimate costs as shown by the records of this office. Some of the major improvements completed during the year are the Lovejoy Street Viaduct System, which includes the construction of a viaduct on Lovejoy Street from Ninth Street to Fourteenth, and a connecting ramp on Tenth Street. The County had previously completed their portion of a viaduct from the bend in the Broadway Bridge to Ninth Street prior to the commencement of the City's portion. The total cost of the work done by the City amounted to \$308,958.00. The improvement of Interstate Avenue was completed during the year at a cost of \$146,284.00. East Broadway, Williams Avenue, et al., streets at the easterly approach to the O-W. R. R. & N. Bridge, were paved following the widening proceedings, the total cost of the improvement being \$134,861.00. East Burnside Street, Sandy Boulevard, et al. were also paved during the year following the previous widening proceedings at a cost of \$124,844.00.

Improvements in the southwesterly heights district of Portland, commonly known as Buringame, which included the construction of a viaduct as well as the grading and surfacing of streets amounted to \$65,873.00. Ninth Street passing under the new Lovejoy Street ramp was paved from Hoyt to Front Street at a cost of \$25,300.00, providing a very important traffic artery for the industrial traffic of North Portland. Foster Road from Seventy-second Street to the easterly city limits was improved by the construction of sidewalks and curbs at a cost of \$19,460.00.

Four major street lighting improvements were completed at a total cost of \$202,477.00, including Tenth Street from Hoyt Street to

Jefferson Street; Morrison Street from the river to Washington Street; Alder Street from Third to Chapman Street; and Fourth Street from Burnside Street to Jefferson Street. It may be stated that Portland now ranks well among the first of cities having modern lighting systems, and much favorable comment has been received on account of the very efficient lighting of our downtown streets.

There are within the boundaries of the City of Portland 12,542,810 square yards of hard surface pavement including the County roads within the City limits. There are 2,287,307 square yards of macadamized streets within the City limits. The total value of all street improvements constructed by the City now amounts to \$45,109,961.00. There are in place 958.31 miles of sewers, the total cost of which is \$13,310,592.00. The City of Portland at the end of the fiscal year had 1238.45 miles of streets including County roads within the City limits.

NEW PLATS AND STREET DEDICATIONS

Seventeen plats of new additions were submitted to the City Engineer for approval during the year, and were recorded with the County Clerk. These plats were all checked for proper balance of the survey, conformity with existing streets and suitability of layout. It has been the policy of this office to accept no plats with streets less than 50 feet in width and with a width sufficient to take care of traffic needs for some time in the future. The plats filed are listed as follows:

Gainsborough
 Sluman's Addition
 Brentwood Park.
 Davenport Place
 Glisan Street Addition
 Military Heights
 Burlingame, Blocks 61, 62 and 63
 Martha
 The Fairways
 Lovewood
 West Point
 Richau
 Madrona View (replat)
 Parkhill (replat)
 Willamette Oaks Park
 Burlingame, Block 51
 Gainsborough Plat No. 2

At the election of November 6, 1928, a district including the quarter section bounded by Fremont Street, Prescott Street, East Forty-second Street and East Fifty-second Street, was taken into the City limits. This tract adds 0.26 square miles to the total area of the City of Portland, which is now 66.86 square miles.

MAINTENANCE OF PAVEMENTS

Each year the problem of keeping the pavements in suitable repair is becoming more acute. An attempt is made to keep the pave-

ments in a safe and passable condition with the limited appropriations available for this work. The amount of \$90,000.00 expended on the maintenance of hard surface pavements during the year is far from sufficient. Macadam and gravel streets have been redressed as has been the policy in the past. It is the contention of this Department that where the property owners have gone to some expense to construct a roadway and they are not in a position to pave their streets, that some help should be given by this department for the proper maintenance of these temporary roadways.

PERMITS

The number of permits for opening streets depends upon the volume of work being done by the utilities, the construction of residential and public buildings, etc. During the year the number of permits for these purposes were neither abnormal nor subnormal. Inspections are made in the field of all underground installations for the purpose of securing satisfactory backfilling of trenches, also for the purpose of locating the position of underground structures within the street area.

RIVER POLLUTION STUDIES

Acting upon a communication from Mayor Baker to the United States Government, suggesting that a study be made of river pollution, Mr. H. B. Hommon, Sanitary Engineer of the United States Public Health Service, and a nationally known authority upon sanitary matters was detailed to make a study of the problem in this vicinity, and in February, 1926, filed a report with this office setting forth his recommendations as to the modus operandi to be followed in taking river samples and of analyzing these samples for the purpose of determining the percentage of dissolved oxygen as well as the bacteria content. Mr. Hommon and his assistant designed and built apparatus for taking samples from the river at various depths. The testing was begun on July 20, 1926, and has continued to January 10, 1929, samples being collected at 14-day intervals. The collection of samples has been taken care of by this office, and samples have been turned over to the Health Bureau for analysis. During this period this office has consulted with Mr. Hommon on several occasions transmitting the results of the tests to him for his information and comment. Some changes have been made in the method of testing the samples in accordance with his recommendations. The primary object of these studies of river pollution is to determine whether or not the water contains a sufficient percentage of dissolved oxygen to properly sustain fish life in the river, and to discover the extent of contamination on account of bacteria present which may cause a detrimental effect upon the health of persons in the vicinity of the river or those using the river for recreational purposes.

The sampling apparatus was designed by the United States Bureau of Public Health. It consists of a rectangular tank with three 8-ounce bottles connected with it. The apparatus is lowered to the desired depth by means of a rubber hose reinforced with wire. A valve is then opened at the upper end of the hose which permits the water to pass through the bottles and into the tank. When the tank and bottles are filled they are raised into the boat and packed into an

insulated box so as to preserve the sample at its original temperature. These samples are taken to the laboratory as soon as possible (usually within two hours) and tested for dissolved oxygen and bacteria count. The oxygen demand is determined after five days and is taken as 80 per cent of the total demand.

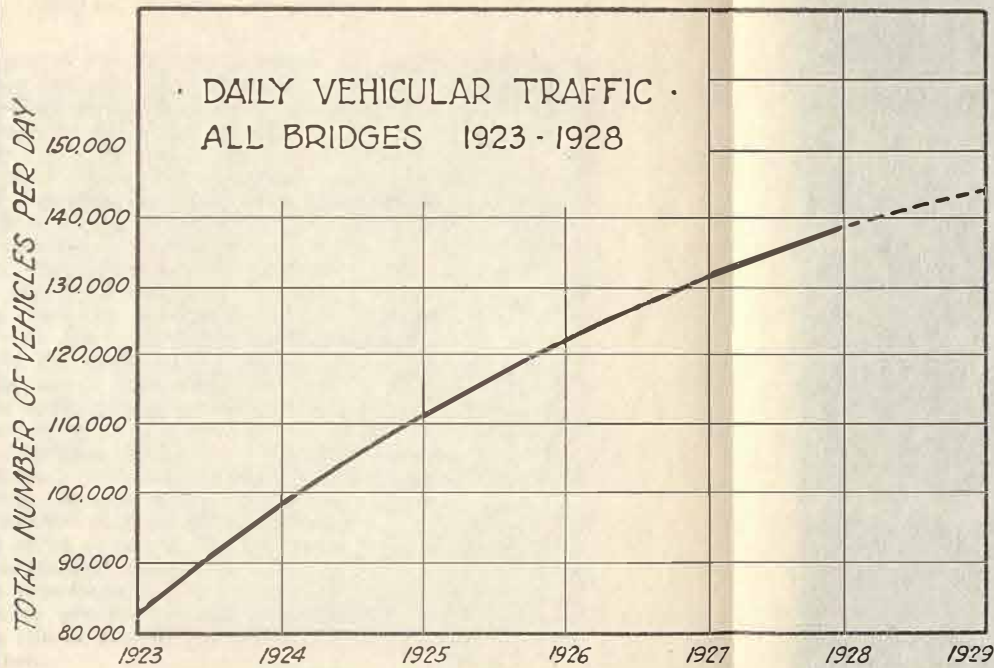
The standard methods of water analysis approved by the American Public Health Association are used in testing these samples in the laboratory of the City Health Bureau.

It has been found that nuisance results from putrefactive decomposition of organic matter; that is, decomposition produces substances which consume dissolved oxygen after which consumption odors are present and a general nuisance is created. The depletion of oxygen in streams causes the death of fish or other animal life by suffocation. The consumption of oxygen by sewage deposited in streams is called the bio-chemical oxygen demand. The extent of this oxygen demand is determined by laboratory tests. Normally aerated water such as is used for domestic purposes contains dissolved oxygen in the proportion of about 10 parts per million. Water containing more than 10 parts per million is considered super-saturated with oxygen. The accepted standard for the proper maintenance of fish life in streams is not less than three parts per million of dissolved oxygen. The results of our tests show that during the low water stage of the Willamette River in September and October the percentage of dissolved oxygen has been less than the accepted standard of three parts per million. The stations along the river at which samples were taken are as follows: (1) Sellwood Bridge; (2) Ross Island Bridge; (3) Burnside Bridge; (4) Portland Flouring Mills; (5) S. P. & S. Bridge; (6) Municipal Terminal No. 4.

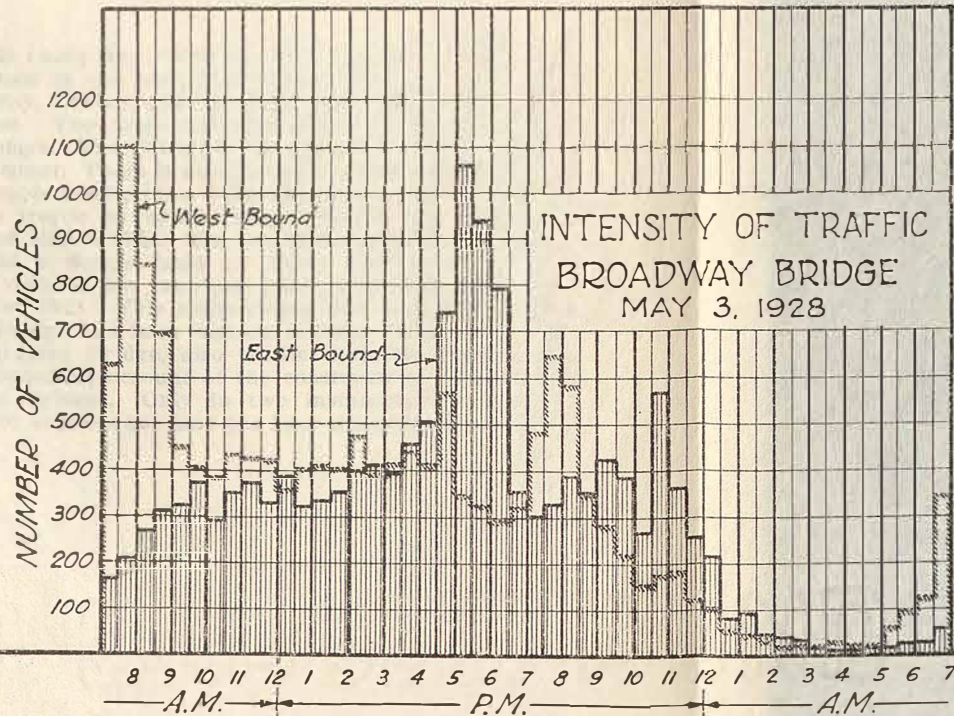
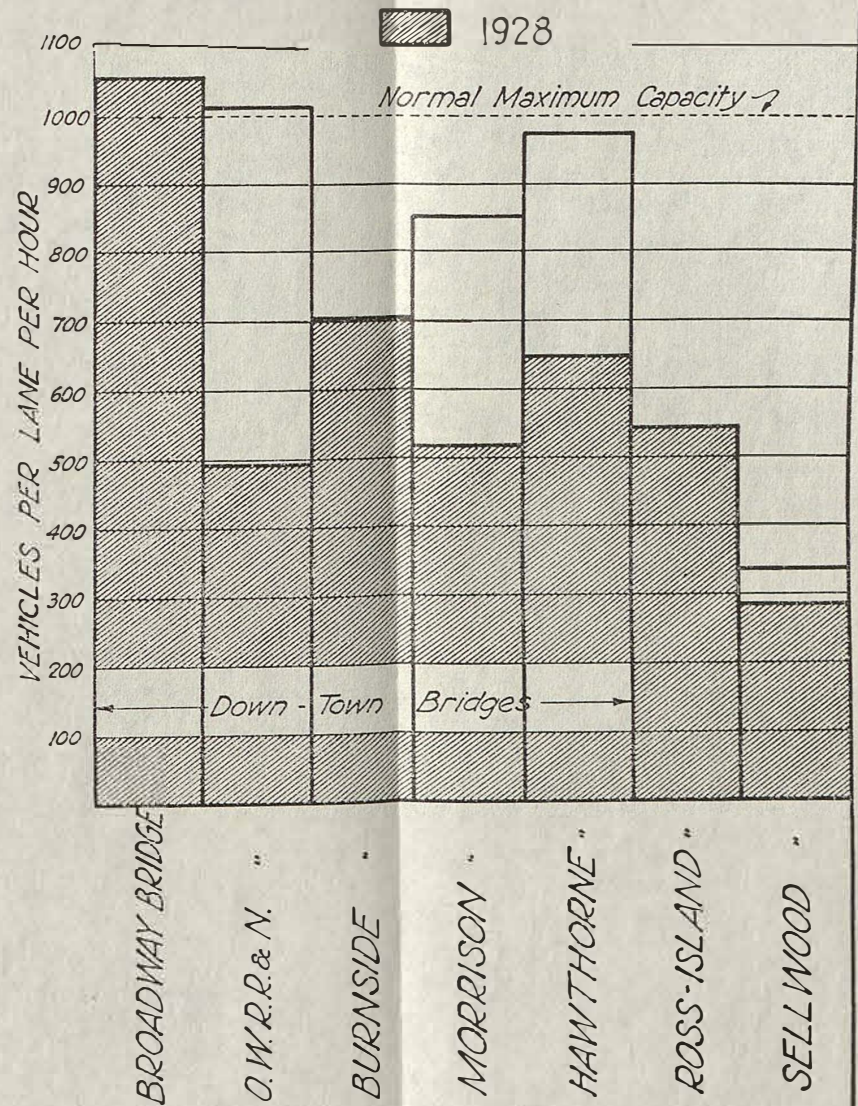
In September, 1927, during low water in the river, the percentage of oxygen present in the samples taken was less than three parts per million at the four lower stations; namely, Burnside Bridge, Portland Flouring Mills, S. P. & S. Bridge, and Municipal Terminal No. 4. In September and October, 1928, the same conditions were present except that the period was longer, extending as much as two months at the lower stations above mentioned. It may be stated that freshly discharged sewage contains a considerable proportion of oxygen and that oxygen is not drawn from the river water until decomposition begins some time after the discharge into the river. The bacteria present in the water is determined by standard methods in use by biologists and conclusions to be drawn from these results are not possible of absolute interpretation unless the period of sampling extends for a considerable time.

A comparison of the samples taken at Sellwood before the sewage from Portland enters the river with samples taken from the Columbia River just above the mouth of the Willamette River shows that the Willamette is quite badly polluted before it enters Portland.

I may say that a study of the data submitted herewith shows conclusively that except for a period of approximately two months each year the Willamette River flow is of an amount sufficient to dilute the sewage so that there is no detrimental effect upon fish life although the water is probably not sufficiently pure to justify the use of the river for recreational purposes. During the two months of the



MAXIMUM RECORDED CAPACITY OF A SINGLE LANE ON RIVER BRIDGES :-



O. Laurgaard, City Engineer 1/22 '28. Compiled by Ben A. Eddy.

year when the water is low and the sewage is diluted to a lesser extent, it appears that fish life is endangered. Tests made of the water in the Columbia River have shown that the percentage of dissolved oxygen is well over 10 parts per million, no doubt on account of the rapids in the river, the swift current and great volume. The Willamette River near Portland is affected to a certain extent by the tides, and sewage deposited no doubt becomes stagnant and uses up the oxygen available during the process of decomposition, especially during low water periods. I would also state that it does not appear that there is any immediate hazard existing to the health of the population of the City of Portland on account of sewers having their outfalls extending into the Willamette River especially since Portland does not use the river water for domestic purposes.

Mr. Hommon in his report of February, 1926, states that experience in other cities shows that where the flow of water is less than 3.5 second feet for each 1000 of population contributing sewage to a stream, that objectionable conditions will result and that in sluggish streams already somewhat polluted the quantity required for proper dilution may be from 7 to 10 second feet for each 1000 of population. It is estimated that the population contributing sewage to the Willamette River is 320,000 and the minimum flow in the river is 4000 second feet. This gives a flow of 12.5 second feet for each 1000 population which is considerably above the figure taken as the point where conditions become objectionable. It appears then that the flow of the river is sufficient to prevent obnoxious conditions at present. The sustenance of fish life is, however, a function of the dissolved oxygen present in the water.

TRAFFIC STUDIES

The annual traffic count was taken on May 3, 4 and 5, 1928, and as has been the custom in the past, traffic was counted for the full 24 hours for Thursday, Friday and Saturday upon all of the Willamette River bridges. The count was also taken on the St. Johns Ferry for the three days. The following tabulation shows the results in detail of the 1928 count. There is also included a chart which shows the increase in vehicular traffic since 1923, also a chart typical of all bridges showing the traffic by half hour periods on the Broadway Bridge for the date of May 3, 1928. The diagram captioned Maximum Recorded Capacity of a Single Lane on River Bridges shows the greatest number of vehicles per lane per hour upon each bridge as well as the results for 1928. This chart shows that traffic intensity upon the Morrison Bridge has been less on account of the construction of the new Burnside Bridge, also traffic upon the Hawthorne Bridge has been lessened on account of the construction of the Ross Island and Sellwood Bridges. Only in two instances have we recorded more than 1000 vehicles per lane per hour upon any Willamette River bridge.

VEHICULAR TRAFFIC, TRANS-WILLAMETTE RIVER BRIDGES, MAY 3, 4 AND 5, 1928

EAST BOUND

	Total 24 Hours	Max. 30 Minutes	% Daily Total	Max. 60 Minutes	% Daily Total	Max. 120 Minutes	% Daily Total	
SELLWOOD.....	(Thurs., May 3.....)	1,660	162	9.8	284	17.1	476	28.7
	(Fri., May 4.....)	1,687	143	8.5	214	15.7	477	28.3
	(Sat., May 5.....)	2,167	120	5.5	219	10.1	431	19.9
ROSS-ISLAND.....	(Thurs., May 3.....)	6,323	490	7.7	976	15.4	1,719	27.2
	(Fri., May 4.....)	6,854	543	7.9	1,083	16.8	1,810	26.4
	(Sat., May 5.....)	7,601	326	4.3	636	8.4	1,215	16.0
HAWTHORNE.....	(Thurs., May 3.....)	9,400	660	7.0	1,223	13.0	2,105	23.4
	(Fri., May 4.....)	9,463	574	6.0	1,177	13.7	2,175	23.0
	(Sat., May 5.....)	11,404	522	4.6	971	8.5	1,881	16.5
MORRISON.....	(Thurs., May 3.....)	7,584	531	7.0	1,036	13.7	1,903	25.0
	(Fri., May 4.....)	7,767	533	6.9	1,022	13.2	1,705	22.0
	(Sat., May 5.....)	9,422	382	4.1	762	8.1	1,494	15.8
BURNSIDE.....	(Thurs., May 3.....)	14,110	1,063	7.5	2,046	14.5	3,482	24.7
	(Fri., May 4.....)	14,524	1,094	7.3	2,111	14.5	3,537	24.3
	(Sat., May 5.....)	16,455	708	4.3	1,403	8.5	2,639	16.0
RAILROAD.....	(Thurs., May 3.....)	4,502	420	9.3	784	17.4	1,334	29.6
	(Fri., May 4.....)	4,702	550	11.9	994	21.2	1,406	29.9
	(Sat., May 5.....)	4,778	297	5.6	492	10.3	958	20.0
BROADWAY.....	(Thurs., May 3.....)	14,830	1,060	7.1	2,000	13.5	3,534	23.8
	(Fri., May 4.....)	15,007	1,255	8.4	2,112	14.1	3,539	23.6
	(Sat., May 5.....)	17,580	736	4.2	1,469	8.4	2,847	16.2
COMPOSITE.....	(Thurs., May 3.....)	58,415	4,386	7.5	8,349	14.3	14,643	25.1
	(Fri., May 4.....)	60,004	4,751	7.9	8,873	14.8	14,634	24.4
	(Sat., May 5.....)	69,416	3,091	4.4	5,932	8.6	11,455	16.5
ST. JOHNS FERRY 6:00 A.M.-3:00 A.M.	(Thurs., May 3.....)	519	519	100.0	519	100.0	519	100.0
	(Fri., May 4.....)	556	556	100.0	556	100.0	556	100.0
	(Sat., May 5.....)	603	603	100.0	603	100.0	603	100.0

VEHICULAR TRAFFIC, TRANS-WILLAMETTE RIVER BRIDGES, MAY 3, 4 AND 5, 1928—Continued

WEST BOUND

	Total 24 Hours	Max. 30 Minutes	% Daily Total	Max. 60 Minutes	% Daily Total	Max. 120 Minutes	Totals (E. & W. Bound)
SELLWOOD.....	(Thurs., May 3.....)	1,600	140	8.8	222	13.9	3,260
	(Fri., May 4.....)	1,756	117	6.7	226	12.5	3,443
	(Sat., May 5.....)	1,998	119	6.0	236	11.8	4,103
ROSS-ISLAND.....	(Thurs., May 3.....)	6,532	601	9.2	1,020	15.8	12,865
	(Fri., May 4.....)	6,700	607	9.0	1,081	16.0	13,622
	(Sat., May 5.....)	7,920	604	7.7	1,076	13.7	15,427
HAWTHORNE.....	(Thurs., May 3.....)	8,933	519	5.8	965	11.0	18,383
	(Fri., May 4.....)	9,643	551	6.1	1,068	11.7	18,511
	(Sat., May 5.....)	10,303	603	6.1	1,112	10.5	21,999
MORRISON.....	(Thurs., May 3.....)	7,764	519	6.7	966	12.4	15,348
	(Fri., May 4.....)	7,890	502	6.4	938	12.1	15,627
	(Sat., May 5.....)	9,035	488	5.4	993	10.0	18,507
BURNSIDE.....	(Thurs., May 3.....)	13,997	954	7.2	1,788	13.5	27,317
	(Fri., May 4.....)	13,842	952	6.9	1,827	13.1	28,364
	(Sat., May 5.....)	14,801	1,021	6.9	1,867	12.6	31,259
RAILROAD.....	(Thurs., May 3.....)	4,501	410	8.9	703	15.3	9,083
	(Fri., May 4.....)	4,504	393	8.7	672	15.0	9,266
	(Sat., May 5.....)	6,014	405	6.7	702	11.7	10,792
BROADWAY.....	(Thurs., May 3.....)	15,687	1,109	7.1	1,957	12.5	30,523
	(Fri., May 4.....)	16,460	1,126	6.8	2,019	12.3	31,467
	(Sat., May 5.....)	18,694	1,169	6.3	2,065	10.3	36,523
COMPOSITE.....	(Thurs., May 3.....)	58,314	4,352	7.3	7,650	13.1	116,739
	(Fri., May 4.....)	60,339	4,248	7.0	7,824	13.0	120,243
	(Sat., May 5.....)	69,251	4,351	6.3	8,016	11.6	138,667
ST. JOHNS FERRY 6:00 A.M.-3:00 A.M.	(Thurs., May 3.....)	500	500	100.0	500	100.0	1,019
	(Fri., May 4.....)	314	314	100.0	314	100.0	1,070
	(Sat., May 5.....)	902	902	100.0	902	100.0	1,205

BUREAU OF CONSTRUCTION

From December 1, 1927, to December 1, 1928, the Bureau of Construction was in charge of Mr. L. G. Apperson. The activities of this bureau consist of the designing, preparation of plans and specifications, the construction of bridges, viaducts, streets and sewers, the preparation of street extension reports, including appraisals and spreading of assessments for damages and benefits in connection with same, and the design and construction of ornamental street lighting systems.

STREET EXTENSION DIVISION

There is herewith shown in brief a general summary of the work performed by this division during the year 1928:

STREET EXTENSION REPORTS FILED WITH AUDITOR

No.	Area Acquired in Square Feet	No. of Lots in District	Cost
8	187,387	2,074	\$355,705.40

REPORTS ON TAKING OVER COUNTY ROADS FILED WITH AUDITOR

No.	Length in Feet
4	11,240

DEEDS ACCEPTED FOR STREET PURPOSES

No.	Number of Projects Affected	Area Sq. Feet
59	14	318,938

EASEMENTS SECURED

Slope	Purpose	No.	Length	Consideration
Sewers	40	.....	None
		27	3395.6	\$1,174.25

- 3 reports on slope easements filed with Auditor.
 2 reports on change of grade filed with auditor.
 4 set-back line ordinances adopted during 1928.
 8 street extension plats filed with County Clerk with an area in square feet of 445,758.
 30 streets vacated during the fiscal year equalling an area in square feet of 727,255, of which 441,189 square feet have been replatted.

SET-BACK ORDINANCES ADOPTED DURING FISCAL YEAR 1928

Ord. No.	Street	Set Back	Limits
53762	E. 16th St.	10 ft. on each side.....	Sandy Blv. to Broadway
53765	E. 13th St.	10 ft. on each side.....	Pacific St. to Broadway
53763	E. 12th St.	10 ft. on each side.....	Burnside to Holladay
53766	E. 11th St.	10 ft. on each side.....	Oregon to Broadway
54635	E. 33rd St.	10 ft. on each side.....	Emerson to Jarrett
53736	Union Ave.	Irregular, widen to 80 ft.	Broadway to Going
52704	Foster Rd.	10 ft. on each side.....	72nd to 102nd St. S. E.

BRIDGE DIVISION

The Front Street Intercepting Sewer and Drainage System.

Progress by the Pacific Bridge Co., sub-contractors under the J. F. Shea Co., on the construction of the bulkhead wall for this project during the year was generally satisfactory although there were some delays during the first part of the year on account of high water in the river. The excavation for cribs between Oak Street and Ash Street could not be completed during high water for the reason that material could only be handled by the Dredge Titan and which could operate only when the river was at a stage of 8.0 feet, United States Engineer Datum, or lower. All cribs were fabricated and ready for placing by the end of April. These were stored in the vicinity of Swan Island in backwater until they could be placed.

Following the spring freshet in May and June, the excavation was finished between Oak and Ash Streets and the remainder of the cribs placed there. Work was then started between Burnside and Glisan Streets and in spite of the collapse of the building on the Southern Pacific property, the old Gas Company building, and a portion of the old Allen & Lewis dock, all excavation was completed and the cribs placed by November.

During this construction a meeting of the Consulting Board was called on September 19 to 22, particularly to investigate foundation conditions within the area between Burnside Street and Glisan Street. Mr. Chas. W. Staniford, Mr. D. C. Henny, Mr. M. M. O'Shaughnessy, Mr. J. C. Stevens, and Mr. James Polhemus made up the personnel of the board. Their report, under date of September 24, included the following recommendations regarding the work between Burnside and Glisan Streets:

Excavation 5 feet below grade and backfilling with gravel after the crib is placed.

Sheet piling 24 feet in length were recommended to be driven at the toe.

Round piling 36 feet in length were recommended to be driven on three-foot centers instead of 12 foot centers at the toe.

The board also recommended that the steps in the back of the wall in the last pour be eliminated and that the contractor be allowed to place the fender timbers before concreting. This was all predicated on the condition that all possible fill be placed behind the wall before the last pour was made. The placing of a small amount of reinforcing steel in the coping of the wall was also recommended.

Although the concrete mixing and placing plant was ready for use on March 9, defects developed which had to be repaired and active work was not started until April 12. Between April 12 and May 4, 14 base sections of the wall, each 50 feet in length, were poured. No further pouring could be done until July owing to the rise of the river, a crest of 27.5, City Datum, being reached on June 3.

Practically all concrete poured under water at this time was done with the use of a tremie, the depth of the water varying from 2 to 10 feet over the tops of the cribs. 1:2:4 concrete was used for this work under water in lieu of 1:2½:5 concrete which is the mix above water.

the Oregon-Washington Railroad & Navigation Company, and consists of four hexagonal columns each. The total width of 53 feet 3 inches is taken up by a 40-foot roadway and two 8-foot sidewalks, the balance being used for concrete hand rails. The structure has no abutments, the fill for the approaches being allowed to slope in at each end. This eliminated a considerable expense for heavy abutment or wing walls. All column footings were extended to solid cemented gravel, an average depth of 19 feet below the surface of the original ground. The approaches with a 40-foot roadway and a total length of 880 feet, are to be paved with 7-inch reinforced concrete with two concrete sidewalks each 5 feet wide.

EAST THIRTY-THIRD STREET VIADUCT

The ordinance fixing the time for filing the report, with plans and specifications for this viaduct was passed by the Council June 13 and the plans filed on August 11. This report was referred back to the Commissioner of Public Works on September 19 for conferences with railroad company officials. No remonstrances being received, the report was adopted October 31. On November 7 a resolution fixing the assessment district was presented to the Council. This was advertised but not finally adopted at the end of the year.

Some work was done by the Street Extension Division in an attempt to obtain the right of way and slope easements, in order to avoid the rather lengthy change of grade proceedings.

BURLINGAME VIADUCT

The contract for this viaduct was awarded to Lindstrom & Feigenson on January 9, the work being in connection with the grading and graveling of Welland Street, et al. Although work was done on the grading of the streets, no work was done on the viaduct until during June, owing to inclement weather and soft roadbeds which prevented the hauling of equipment and materials.

Construction proceeded fairly well during the summer considering the difficulties encountered in cleaning, refabricating and erecting the old steel from the Vista Avenue Bridge. The length of time which elapsed between the wrecking of the old bridge and the erection of the new one had caused the steel to rust to such an extent that an entire scraping and repainting job was found necessary to place this steel in suitable condition. The construction was completed in October, but owing to the non-completion of the grading and surfacing work, a final estimate was not prepared until November 11, 1928.

The following is a brief description of the completed structure together with the qualities entering into the construction:

Length of bridge.....	648 feet
Roadway	20 feet
Sidewalk, one on each side.....	4 feet
Width over all.....	27.5 feet
Footing concrete	237 cu. yds.
Timber in deck.....	201,300 F. B. M.
Old steel erected.....	440,000 lbs.
New steel erected.....	52,660 lbs.
Distribution of Cost—	
Oregon Electric Railway.....	\$ 8,000.00
City of Portland.....	9,000.00
Assessment District	23,500.00

UNION AVENUE VIADUCT REDECKING

Plans, specifications and estimates for the redecking of the Union Avenue Viaduct were filed with the Purchasing Agent February 14, and bids were opened March 2. Parker & Schram Co. were low bidders with a bid of \$15,491.00, so the contract was awarded to them.

Owing to rainy weather, work was not started until April 5. The contract was completed on May 17 and the final estimate as filed was for \$16,290.02. This cost was proportioned \$7,179.94 to the Portland Electric Power Company, and \$9,110.08 to the City.

This work consisted in the removal of the timber decking on the old structure, together with the car tracks, jacking the structure up to grade and placing steel shims under the columns, cleaning the tops of all stringers and curb girders, relaying the car tracks with steel ties and placing a reinforced concrete roadway slab 7½ inches in thickness. All steel ties were welded to the stringers and the rails welded to the ties. Reinforcing steel was welded to the stringers and to the ties and was also tied with hook bolts to the web plates of the curb girders. When the concrete was poured, this gave a very solid construction with little possibility for breaking down at the car tracks.

Repair work was done at the ends of the bridge to the sidewalks and curbs and reinforced concrete slabs were laid at the abutments to prevent breaking down at these points. A drainage system was provided at the south end by laying 260 feet of 8-inch sewer pipe.

FRONT STREET BRIDGE

A contract was let to the Shipyard Wood Company in March for the removal of the decking of the Front Street Viaduct, and also all the steel stringers, girders and floor beams. Their bid was only \$217.00 for removal, the salvage for the steel covering most of the cost. This work was completed in April and the entire area was filled with earth from basement excavation, under the supervision of the Maintenance Bureau.

MILDRED AVENUE REPAIRS

On plans and specifications prepared for repairs to the pavement on Mildred Avenue Viaduct, the contract was awarded to Edlefsen-Weygandt Company, with a bid of \$3394.50. This work consisted of tearing out a portion of the old paving, building concrete buttress walls, with a reinforced concrete roadway slab, laying a reinforced concrete pavement over the old broken pavement and plain concrete pavement at the ends to meet the old grade.

ELECTRICAL DIVISION

This division completed four ornamental street lighting systems for which contracts had been awarded during the previous year. Two of these improvements were well under way at the beginning of the year. One of the remaining two was started in January, 1928, and the last one was started in March, 1928.

In addition to the above four systems for which proceedings were started in 1927, two extensions to systems already in operation were completed during the year.

The systems completed and put in operation were as follows: Morrison Street, from Willamette River to Washington Street (accepted 12-14-27); Tenth Street, from Hoyt Street to Jefferson Street (accepted 2-23-28); Fourth Street, from Burnside Street to Jefferson Street (accepted 4-18-28); Alder Street, from 100 feet West of Third Street to Chapman Street (accepted 5-16-28); East Alder Street, from Grand Avenue to East Seventh Street (accepted 11-14-28), and Alder Street, from 100 feet west of Third Street to First Street (accepted 11-14-28).

These systems total in length 3.45 miles with the following equipment: 419 two-light posts; 3 wall brackets; 841 lighting fixtures; 421 post base transformers; 22.1 miles of cable, and 7.9 miles of No. 10 wire and 421 disconnecting potheads. The lamps on these systems produce an illumination of 599,300 candlepower, bringing the total illumination produced by ornamental street lighting systems now in operation in Portland to 1,707,280 candlepower.

At the close of the year petitions were on file for systems to be installed during the coming year totaling $1\frac{1}{2}$ miles and requiring approximately 150 posts. Preliminary information on costs and equipment have been furnished to property owners interested in additional street lighting systems totaling 5 miles and requiring approximately 600 posts.

A street lighting system .66 miles long was installed under private contract in the Burlingame district under the supervision of this department.

The installation of special decorative lights on the Campbell Memorial was supervised, the installation tested and connected to the Washington Street lighting system on June 5.

In addition to the street lighting improvements planned and supervised during the year, plans and specifications have been prepared for and construction supervised on the following improvements and special work:

The lighting system for the pedestrian subways at East Broadway, Larrabee, Crosby Streets was tested and put in operation December 18, 1927.

The installation of the lighting systems on the Lovejoy ramp to Broadway Bridge was supervised and the systems tested and put in operation the last days of the year.

Final plans and specifications for lighting systems on Vancouver Avenue and East Thirty-third Street Viaducts were prepared, also plans and specifications for cable and post base installation on First Street from Madison Street to Ankeny Street which cables and bases were installed at the same time the curbs on the streets were cut back 3 feet on each side and the roadway widened. By the completion of the underground work for the street lighting system along with the work of widening the roadway, the property owners saved a considerable sum of money and whenever they decide to complete the system there will be no need of tearing up the street, the only work required being to erect the posts and lighting equipment and connect the cables.

During the first month of the year the tests of the furnaces in the reconstructed Municipal Garbage Incinerator were completed, final re-

ports made and the plant was accepted by the Council December 28, 1927.

The work on the bulkhead wall for the Front Street Intercepting Sewer advanced during the year to the point where construction on the Sewage Pumping Plant was begun in September. The contractor furnished manufacturers dimension plans and sketches of the equipment purchased for this plant which necessitated the preparation of 12 drawings of actual working plans.

The building construction and equipment installation proceeded simultaneously whenever possible. All of the heavy equipment which was to be placed in the pump room was moved to the plant location on barges and placed at approximate locations by means of the floating derricks used on the job.

The following work had been completed and equipment delivered by the end of the year:

The concrete for the floor slab was placed on September 21; the two 10,000-G.P.M. pumps were delivered on October 2; that section of the sewer adjoining the west wall of the plant, with the pump intakes, was completed on October 3; the lower halves of the 30,000-G.P.M. pumps with their bases and the valves were delivered on October 4.

On the 6th of October the walls of the pumping plant were completed up to elevation +22.0 City Datum, and the following day the lower part of the inside forms were removed to allow the installation crew to proceed with the placing of the pumps on the foundations. By the 12th of October the 30,000-G.P.M. pumps had been placed and the runners and shafts installed, the beams for the overhead crane placed on the wall corbels and the sump pump installed and put in service. On the 14th of October the use of the temporary sewer outfall at the foot of Ankeny Street was discontinued and the completed sewer section through the plant put in use. By the 19th of October the concrete bases for the motors had been completed, the motors, crane and part of the pipe castings delivered.

On October the 22nd, work was begun on the forms for the roof of the pump room and the superstructure for the control equipment. By November 6, all the pumps had been placed in their proper location and bolted down and all the pipes and valves connecting the pumps with the sewer and the river had been placed and all joints bolted and caulked.

On November 13 the last concrete for the roof of the pump room was placed and by the end of the year all the inside forms had been removed and the forms for the control building were nearly completed. The work of supervising this construction and machinery installation was carried on by this division with the assistance of one inspector from the Sewer Division and a surveying party for the furnishing of elevations and lines for the building and the placing of the machinery.

SEWER DIVISION

During the year there have been 58 sewers under construction, 56 of these sewers were completed, the two others being well under way and should be completed in December, 1928. Twelve of these sewers

were built by private contract to provide sewerage facilities for new additions. These sewers were built under permit from the City and received the same inspection and engineering service as the contracts for sewer work carried on under the regular proceedings of the City of Portland. The value of the twelve permit jobs is \$44,503.00.

The 44 sewers completed under regular proceedings amount to \$809,105.69. Competition among the contractors has been keen with the bids exceptionally low. The final estimates of four jobs only equaled or exceeded the Engineer's preliminary estimate.

The finals of 39 jobs averages 75 per cent of the Engineer's estimates. The cost of inspecting over half of a million dollars worth of work in 1927 as computed by the Cost Division amounts to 4.2 per cent. The inspection cost of over \$400,000 worth of work completed in 1928 amounts to 3.6 per cent.

FRONT STREET INTERCEPTING SEWER

The Front Street sewer intercepts the drainage from 425 acres, cut off from the river by the new bulkhead wall, and conveys the sewage and storm runoff to a pumping plant located about 3500 feet north from the south end of the sewer. This pumping plant divides the sewer into two branches, the north branch being the shorter, about 1600 feet in length, the size of which ranges from a 36-inch by 45-inch to 54-inch by 62-inch. The south branch is 3520 feet in length and ranges in size from a 30-inch circular sewer at the southern end to 72 inches by 78 inches at the junction. The main trunk is 240 feet between the junction and the pumping plant, and is a 78-inch by 84-inch sewer.

The J. F. Shea Company which had the contract for constructing the Front Street Intercepting Sewer and Drainage System began construction in Ankeny Street on September 13, 1927. The first work consisted of putting down a shaft about 100 feet east of Front Street and driving an experimental tunnel from the shaft toward Front Street. At the commencement of this work a slump of wet ground took place in the heading of the tunnel. To avoid possible danger of further caves at this point, the contractor immediately constructed the sewer in this tunnel section. The remainder of the sewer in Ankeny Street was built in open cut.

The auto and truck traffic in Front Street between the hours of 6 A. M. and 6 P. M. is very heavy. The trucks also park for loading at right angles to the curb, leaving only a narrow lane in the center of the street for the movement of vehicles. The center of the street is occupied by a railroad track over which a number of heavy freight trains are operated each night between the hours of 8 P. M. and 4 A. M. This congestion of traffic influenced the contractor to ask permission of the Council to build the sewer in tunnel, which request was granted.

The north and south branches of the Front Street sewer cross from the west side of Front Street on a curve to a junction at the east property line of Front Street at Ankeny Street. The contractor attempted tunneling on these curves using caps and legs with driven lagging. This method of tunneling proved very unsatisfactory, con-

siderable ground was lost causing a settlement of the railroad tracks, water mains, and other underground structures.

A segmental type of timbering for the tunnel was finally adopted and used throughout the rest of the work. These segments were cut from 4-inch by 12-inch plank at the mill, and delivered on the job ready for use. All of the Front Street sewer was built in tunnel excepting 900 lineal feet which includes the main trunk. Trenches were opened from the street surface to sewer grade where soil conditions made tunneling impractical.

Twenty-nine hundred feet of the south branch was in exceptionally good tunnel ground, being a firm gravel that stood up well, and permitted the excavation for 3 to 6 sets before any timber was placed. For 1600 feet from the south end of the south branch, the entire tunnel excavation was above the ground water level which permitted rapid progress, at times 30 feet of tunnel being completed in 24 hours. Thirteen hundred feet of the south branch was in water bearing gravel which did not cave, but required care in handling space for 3 or 4 sets being excavated at one time before timber was placed. The usual procedure through the water-bearing gravel was to excavate ahead of the last timber as far as safety permitted, the material being taken out to the neat lines of the outside of the tunnel timbering. A trench for the subdrain and placing the pipe in position was the last operation before placing the timber. Any slack places or small caves outside the timber lining was filled with gravel or blocking to prevent future settlement. Two 10-inch subdrains were used in this wet ground and a pumping plant for disposing of the drainage maintained at each shaft. After placing the concrete and completing the sewer barrel, these subdrains were cut and the ends filled with gravel and a concrete plug. A cut-off wall was also built across the shaft between the ends of the cut drain to prevent the continuous longitudinal flow of water below the sewer.

The remaining 620 feet of the south branch was in very difficult ground, having a clay top soil with a water bearing sand and silt at sewer grade, some of the tunnel being driven through sawmill refuse, waste timber and miscellaneous fill material. Fortunately only a small flow of ground water was encountered on this branch, most of the water being bailed with a bucket at the heading, and no subdrain required after the first few hundred feet. In the good ground no trouble was experienced except the inconvenience of working in a wet heading and maintaining the pumps.

In the soft ground and wet sand a method of procedure was devised by the City's engineering force which enabled the contractor to use the same segmental type of timbering used in good ground. Wherever the wet running material extended above the springing line of the sewer arch, the contractor constructed the sewer in open cut as the difficulty of holding a soft roof increased the cost beyond the benefits derived by tunneling. Over 600 feet of tunnel was through material commonly called "quicksand", which ranged in depth from the springing line of the sewer arch to from one to six feet below sewer grade. In this ground the workmen excavated a small central drift just wide and high enough to set the middle segment of timber, for a distance of usually 5 feet ahead of the last full set of timber.

A needle or cantilever beam of 8-inch by 10-inch timber was then placed, resting on an 8-inch by 8-inch post at the last full set of timber, the rear end of beam being braced from the roof of the tunnel. The middle segments were then braced from this needle beam and the central drift enlarged to the proper size to place the remaining roof segments which were also braced to the beam.

After the roof was secured, excavation for the full width of the drift began, the bench being taken down approximately level and the face and sides breast boarded as fast as the soil was excavated. At the level of the wet sand or running material, tongue and groove sheeting two inches thick was placed approximately vertical against the sides and face of the drift, the fourth side being the old face timbering. The first set of tongue and groove had to be driven by hand, being driven as far as possible without battering the ends of the sheeting beyond usefulness, before excavating began. Driving continued until the full length of sheeting was in place and the excavation down to a point where another set of sheeting could be set up. The second and other sets were driven wherever possible with an air hammer, and driven the full depth before excavating began. Sometimes a third and fourth set was required before the proper depth for a foundation was reached. At times the excavation was done with a bucket, as the material was too soft and liquid to shovel. After removing enough of the unstable material to insure a good foundation, the space was filled with washed gravel, the gravel replacement ranging from one to four feet in thickness as required by the nature of the soil excavated and the depth of the hard ground below sewer grade. The depth of foundation placed permitted the upward flow of water through the gravel to the sub-drain without movement of the sand, all lateral movement of unstable material being prevented by the tight tongue and groove sheeting. This method of excavation divided the subgrade into cells or pockets which permitted the excavation over a small area without a perceptible movement of the unstable soil. After the gravel foundation was in place, the remaining pieces of the timber set were placed and all voids between tunnel timber and tongue and groove filled with blocks, wedges, etc. Each set of timber was set as tight as possible against the preceding set and advanced the wooden tunnel lining 12 inches for each set placed, this wooden lining being continuous, excepting at the shafts, and also served as the outside concrete forms for the sewer. The horizontal and vertical dimensions inside the tunnel timber were 2 inches greater than the same specified dimensions of the sewer, to allow for deviations of line and grade. This extra space was filled with concrete by the contractor without extra compensation, because of the greater speed of tunnel operation allowed by not working to a very fine grade and line, the allowable error in the tunnel lining being one inch each way. To interfere as little as possible with the traffic and business in Front Street, the contractor built an elevated bunker at the shafts where the soil could be stored for a short time or dumped directly into the trucks as desired. All pumps and hoists were operated by electricity.

From the time tunnel operations began the work ran continuously night and day until the concrete had been placed in the sewer,

the only shutdown for any reason was at the time of high water in the Willamette River and Christmas Day in 1927.

On completion of enough tunnel to keep a concrete crew working continuously, the contractor began the concrete lining or sewer barrel. One small mixer, moved from shaft to shaft as needed, constituted the entire mixing plant, the concrete material being delivered at the desired point as fast as used with not more than a few cubic yards of sand and gravel stored at the mixing site to keep the crew working in case of a delay in material delivery.

The sewer structure had been designed for construction in open trench, but no change of design was considered necessary for use in the tunnel. The amount of reinforcing steel in the structure greatly complicated the placing of concrete in the tunnel, and it was in this operation that the contractor received the greatest benefit from the increased size of the bore over that of the sewer cross-section as it gave more room to work the concrete between and outside of the steel bars.

The sequence of operations was to first set the steel in the tunnel for the entire distance between two shafts, the bottom concrete was then run by which time the steel had been placed in the next section. At the time the paving crew was placing the vitrified brick invert, the concrete crew was placing bottom concrete in the next section. As soon as sufficient invert had been placed the form crew began erecting forms for the side walls and arch. After completion of forms the concrete crew moved back and poured the side walls and arch to the key section. By this time the invert end forms were ready in the new section. After the move a small crew was left to key in, which usually took form from two to three hours after the concrete crew finished. Concrete was poured 14 hours or two shifts, the third shift set steel, laid brick, set forms and keyed in when necessary, if that operation ran over the concrete crew's time. This sequence of operation kept the work going continuously, gave a small number of men steady employment and developed a highly skilled crew for the work in hand, and reduced the labor turnover.

From the mixer the concrete was dumped directly through a vertical chute into buggies at the bottom of the shaft, from there conveyed to the desired spot and dumped onto a platform, from which place it was shoveled by hand into the forms and well tamped and worked around the steel reinforcing with especially prepared tamping bars. After placing the concrete as high as practical on the sides a rough skew back was formed with a stiffer mix, and the key placed.

For the key short pieces of loose lagging or form lumber was used to close the working space between two form ribs and the key concrete, made somewhat stiffer than that used for the walls and lower part of the arch, was worked back lengthwise of the sewer until the key space was entirely filled. Such a short time elapsed between placing the concrete in the sidewalls and key that all of the sewer above the bottom was practically one pour. On account of having to keep the ground water level below the concrete work, continuous operation of the pumps was necessary, which prevented the closing of the shafts until after all of the tunnel concrete had been placed. Closing the shafts began at the high end of the sewer and continued con-

secutively towards the lower end. The last shaft closed was the one yielding the largest amount of ground water. This shaft had been excavated to several feet below sewer grade to provide a reservoir large enough to keep the pumps working without a shutdown every few minutes. This shaft was also a few feet wider than the sewer structure. After the sub-drains had been stopped and the cutoff walls built, this sump was filled to subgrade with washed river gravel, a six-inch pump suction was put in a small sump outside the line of the sewer. This six-inch pump kept the water down long enough to let the concrete set for 72 hours, after that period the pump was shut down and the water allowed to raise over the sewer. Very few leaks developed after the pumps shut down, none of them serious, and were easily stopped. An unusually small amount of seeping water showed in the sewer after completion.

Public Works inspectors were in charge of the work at all times, the number employed depending on the amount of work under way. These men were the best available and especially selected for the position. One man on each shift was designated as chief of that shift and the other inspectors worked under his direction. The shift chiefs reported to one man in general charge, who in turn worked directly under the Engineer in charge of construction, this arrangement developed into a satisfactory organization and turned out an excellent quality of work.

No settlement of the sewer barrel has been detected where the segmental type of timbering was used, or where the quicksand was encountered in the tunnel, neither did precise leveling show any movement of the buildings or street surface at these points.

Whenever the wet sand and unstable soil came above the springing line of sewer arch, the contractor resorted to the open trench method of construction. Only 900 lineal feet of the sewer was built in open trench including all but 35 feet of the main trunk between the junction and the pumping station. In the open cut work from the surface of the street through the firm ground, the contractor used the ordinary method of timbering, excepting that the dimensions of the timber used were greater than usual on account of buildings along the street and the underground structures to be protected. A railroad track three feet from the edge of the trench further complicated the excavation.

After reaching the wet material, three-inch tongue and groove sheeting was used and driven from two to six feet below subgrade, depending upon the nature of the soil encountered. After excavating sufficient of the bad material to insure good work, the bottom of the trench was loaded with sufficient gravel to prevent any upward flow of the wet ground. Where necessary to permit excavation without allowing the wet soil to flow along the trench, transverse bulkheads of tongue and groove sheeting were used.

The flow of 27 of the 28 intercepted sewers was maintained without interruption until the completion of the work in Front Street, after which the entire 27 sewers were connected within 20 days. As the sewage pumping plant had not been built at this time, a by-pass or outlet was constructed connecting the unfinished trunk directly

with the river, permitting the Front Street sewer to function without interference with the construction of the pumping plant.

After completing the subsurface work, the contractor restored the pavement and sidewalks destroyed or damaged by the sewer construction completing all of the work excepting about 100 feet of the main trunk on April 30, 1928. During August, 1928, the low stage of water in the river and the completion of the pumping plant foundation made it advisable to complete the main trunk and connection with the pumping plant. The sewer contractor started on this short section August 29 and completed the sewer on October 13, 1928, 13 months after beginning the work. During that time 276 days were spent on the actual construction of the sewer and replacing the street surface, connecting with pumping plant, and closing temporary outlet to the river.

DRAFTING AND COMPUTING DIVISION

This division prepares maps of street improvements and sewer construction together with specifications and preliminary estimates to be filed with the City Auditor, prepares petitions for street improvements, sewer construction, or ornamental lighting systems, and checks said petitions for percentage, bonding value of property, etc., and prepares a report upon all Council documents forwarded to this division for checking.

New quarter section sheets are prepared when necessary, also revision of old quarter section sheets. Some work has been done upon the underground maps which show the dimensions and location of structures laid beneath the surface of city streets. These plats are very useful in locating sewers, water mains and other structures of the City or utility companies.

During the year 139 maps of street improvements were prepared; 124 tabulations of bids for street improvements were made; plans were prepared for 20 improvements completed under permit from this office. The City Ordinance allows persons to construct street and sewer improvements providing the fee for engineering and inspection is paid in advance. Upon receipt of this payment, plans and specifications are prepared and all work is inspected in the same manner as that constructed under regular street contract.

In the Sewer Division 56 plans for sewer construction were prepared with a total preliminary estimated cost of \$439,888.00. Seventy-eight petitions for new sewer construction were prepared and given out to the property owners for circulation. Thirty-two signed petitions were received and checked for percentage and bonding value. Plans were prepared for 12 sewer construction jobs under permit. The same method of procedure is followed in sewer permits as for street improvement work.

Forty-two ordinances for establishing grades on city streets were prepared and forwarded to the Council. Thirty-five ordinances changing curb lines were prepared and forwarded to the Council. Thirty-two ordinances changing street names were likewise prepared and forwarded to the Council for passage.

The Drafting Division prepared 11 new quarter section sheets

during the year and retraced 19. The official city map of Portland was completely revised.

A special appropriation of \$2000 was allowed in the budget for re-surveying in Linnton. Considerable work was done during the year, and data secured for platting street and property lines upon our regular city maps.

Plats submitted by utility companies showing the proposed layout of underground structures are submitted to the Drafting Division for inspection and approval prior to the issuance of a permit. In the year 1928, 3320 such maps were inspected by this division.

The number of plats submitted for approval by the various utility companies are listed in the following table:

Portland Gas & Coke Company.....	3,053
Pacific Telephone & Telegraph Co.....	138
Northwestern Electric Company.....	67
Portland Electric Power Co.....	57
Western Union Telegraph Co.....	3
Postal Telegraph Co.....	1
Miscellaneous.....	1
Total.....	3,320

Application for permits to construct sidewalks, curbs and driveways are filed with this division. There were 2540 such applications handled during the year, or an average of nine during each working day.

AVERAGE OF LOW UNIT BID PRICE OF ALL MATERIALS USED IN SEWER CONSTRUCTION FOR FISCAL YEARS 1925, 1926, 1927 AND 1928

	1925	1926	1927	1928
24 inch Sewer Pipe.....	2.41	2.49	3.200	2.75
21 inch Sewer Pipe.....	1.91	1.92	2.225	2.28
18 inch Sewer Pipe.....	1.61	1.52	1.782	1.69
15 inch Sewer Pipe.....	1.18	1.12	1.354	1.22
12 inch Sewer Pipe.....	.79	.81	.888	1.28
10 inch Sewer Pipe.....	.56	.58	.657	.72
8 inch Sewer Pipe.....	.44	.45	.489	.53
6 inch Sewer Pipe.....	.32	.33	.362	.38
Y Branches, 24x6 in.....	8.29	9.35	11.75	8.00
Y Branches, 21x6 in.....	6.77	7.11	7.90	7.75
Y Branches, 18x6 in.....	5.65	5.80	6.965	6.50
Y Branches, 15x6 in.....	3.86	4.59	4.95	4.90
Y Branches, 12x6 in.....	3.10	3.75	3.32	3.30
Y Branches, 10x6 in.....	2.26	2.38	2.46	2.75
Y Branches, 8x6 in.....	1.80	1.73	1.96	2.01
Y Branches, 6x6 in.....	1.28	1.14	1.40	1.36
One-eighth Bends, 6 inches in diameter.....	1.06	1.02	1.213	1.27
Concrete Manholes, complete.....	64.60	65.04	66.77	69.26
Concrete Catch Basins, complete.....	18.55	18.70	17.62	18.00
Concrete Inlets, complete.....	16.90	14.06	14.69	16.55
Complete connection with Sewer in.....	.71	.72	.765	.52
Excavations and Refillings, cu. yds.....	5.56	3.13	3.20	1.73
Excavations and Refillings, solid rock.....	20.00	19.17	14.60	13.50
Class A Concrete in place (1-2-4 mixture).....			10.13	10.00
Class B Concrete in place (1-2-4-8 mixture).....				
Crushed Rock or Gravel in place for Sewer Foundations (Cu. Yds.).....	3.91	2.79	1.16	1.30
Macadam Pavement taken up and relaid.....	1.29	.99		.64
Macadam Pavement taken up and new laid.....	1.44	1.50		
Concrete Pavement taken up and relaid.....	2.63	3.20	2.79	2.99
Connecting Inlet.....			9.44	
Oiled Macadam, Sq. Yd.....			1.10	
Bank Gravel, Cu. Yd.....			1.92	1.50
42 in. Mon. Concrete Sewer.....			5.80	7.00
36 in. x 36 in. Mon. Concrete Sewer.....			5.65	6.50
30-in. Circular.....	4.00	4.18	4.66	
30 in. x 30 in. Concrete Sewer.....	5.08	3.92		6.00
36 in. Concrete Sewer.....	5.00	5.08		
30 in. x 36 in. Sewer.....	6.00			
12 in. Sewer Pipe in Concrete as per plan.....				4.00
8 in. Sewer Pipe in Concrete as per plan.....				3.00
6 in. Sewer Pipe in Concrete as per plan.....				2.00
Reconstruction Sump into Manhole.....				50.00
48 in. x 48 in. Mon. Concrete Sewer.....				9.00
54 in. x 54 in. Mon. Concrete Sewer.....				10.00
60 in. x 60 in. Mon. Concrete Sewer.....				11.50
66 in. x 66 in. Mon. Concrete Sewer.....				14.50

DEPARTMENT OF PUBLIC WORKS

COMPARISON OF UNIT PRICES OF ALL MATERIALS USED IN
IMPROVING STREETS FOR FISCAL YEARS 1926, 1927, 1928

	1926	1927	1928
Average Unit Prices for Fiscal Year--			
Excavating Earth	\$.56	\$.435	\$.45
Excavating Old Macadam	.67	.955	.62
Excavating Concrete Sidewalks and Curbs	2 00	1 75	1 50
Excavating Trench	.79	.83	.74
Embankment, Common	.12	.0244	.40
Embankment, Rolled		.211	.50
Sidewalks, Concrete	.15	.144	.14
Sidewalks, Wood, 3 ft. wide		.496	.40
Curb, Concrete	.43	.388	.38
X Walks, Concrete		.199	.21
X Walks, Wood, 2 ft. wide	.48	.467	
X Walks, Wood, 4 ft. wide	1 25	.789	
Concrete, Class "A"	16.16	14 05	16 88
Steel	.07	.072	.06
Concrete Gutter Pipe	1.50		
Header, 4 in. x 12 in. Wood		.205	.20
Header, 3 in. x 8 in. Wood		.11	.12
3 in. Sewer Pipe, (Sidewalk Drain)	.21	.187	.19
6 in. Cement or Vit. Pipe	.35	.334	.31
8 in. Cement or Vit. Pipe	.44	.416	.40
Driveways, Concrete, 6 in. thick	2.01	1 758	1 71
Inlets	17 79	16 59	16 05
Gravel	2 11	1 54	1 25
Macadam C. R.	2 39	3.10	2 25
Concrete Pavement No. 1			
Concrete Pavement No. 3	1 74	1 469	1 43
Asphaltic Concrete No. 1 Top	.95	.93	.80
Asphaltic Concrete No. 2 Top	1 04	1 04	1 00
Base Crushed Rock 4 in.	.38	.354	.29
Redress No. 1		.84	.735
Redress No. 2		.90	.925
Concrete Pavement No. 3, 7 in. thick		1 59	1 43
Concrete Pavement No. 3, 8 in. thick		1 77	2 05
Bituminous Base, Lbs.		.0053	.004
Bituminous Base, 3½ in. thick		.81	.73
Bituminous Base, 4 in. thick		.96	.89
8 in. Corrugated Iron Pipe		.995	1 00
10 in. Corrugated Iron Pipe		1 40	
Fine Grading		.07½	.08

SURVEY DIVISION

During the year 12 field parties consisting of approximately 36 men handled the surveys in connection with the street improvement program, sewer construction, ornamental lighting systems, and viaducts. In addition to this considerable preliminary work was done by the field parties upon the street widening projects prior to the placing of the measure on the ballot in the November election. Much re-survey work was done during the year for the purpose of straightening out discrepancies in descriptions and surveys. The following table shows the amount of work done by this division during the year:

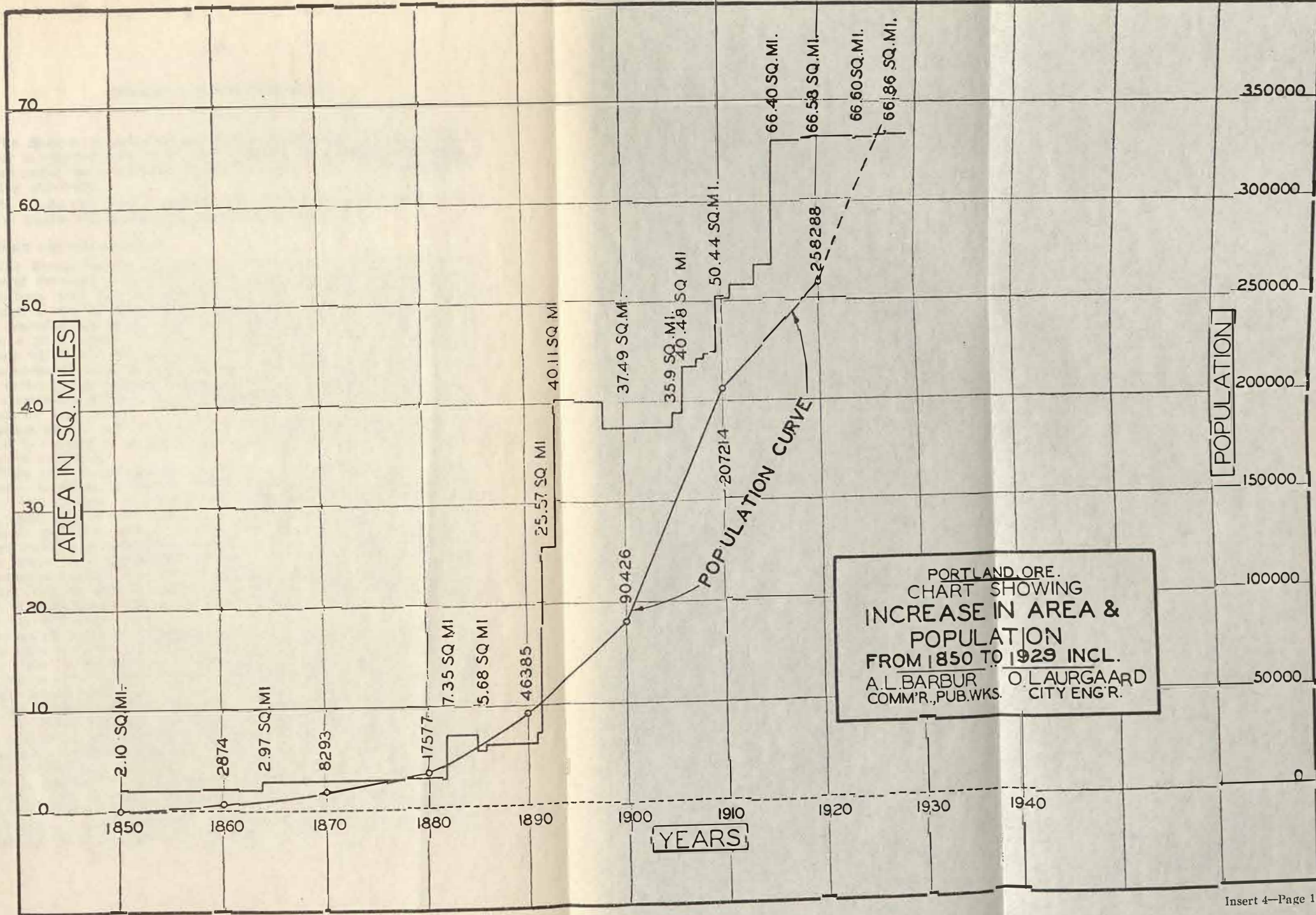
FIELD WORK COMPLETED DURING FISCAL YEAR 1928

	Lin. Ft.
Cross-sections	433,440
Grading stakes	188,670
Finishing stakes for grading	109,850
Sidewalk line and grade stakes	183,566
Gutter points for pavement	199,650
Profile levels	155,550
Street extension surveys	255,197
Looking up points for and retracing street lines	346,927
Surveys for placing of (a) monuments, (b) iron pipes	164,100
Miscellaneous survey work	489,300
Measuring up contract work done	188,535
General levels	104,800
Preliminary survey for line of sewer	35,300
Profile levels for sewer	47,600
Line and grade for sewer	173,746
Measuring sewer branches	113,965
Resurveys	252,822
Sub-grade points	12,200
Transverse line	293,880
Triangulation	25,400

LENGTH, SIZE AND KIND OF PIPE SEWER IN PLACE DECEMBER 1, 1928

Size	VITRIFIED				CEMENT			Total Sewer Pipe Laid in Place 12-1-28 Lin. Ft.	Total All Sewer Pipe in Place 12-1-28 Lin. Ft.
	Laid Prior to 12-1-28 Lin. Ft.	Laid in Fiscal Year 1928 Lin. Ft.	Total in Place Lin. Ft.	Laid Prior to 12-1-28 Lin. Ft.	Laid in Fiscal Year 1928 Lin. Ft.	Total in Place Lin. Ft.	Total Sewer Pipe Laid in Fiscal Year 1928 Lin. Ft.		
6"	727,528	11,469	438,907	425,444	40,064	465,508	51,533	1,204,505	
8"	1,014,967	9,172	1,024,139	530,885	43,215	574,100	52,387	1,508,230	
10"	487,267	10,062	497,329	254,879	12,811	267,690	22,873	965,019	
12"	388,088	748	388,836	131,568	14,210	148,778	14,958	537,614	
14"	.....	.....	.....	20,764	.....	20,764	.....	20,764
15"	67,361	610	67,974	61,549	12,537	74,486	13,547	142,460	
18"	60,718	780	70,498	47,790	7,329	55,128	8,109	125,626	
21"	18,580	3,208	21,797	21,266	2,548	23,814	5,756	45,611	
24"	69,547	.....	69,547	27,123	4,729	31,852	4,729	101,390
27"	3,090	.....	3,090	.....	.....	.....	.....	.....
Totals.....	2,847,058	36,049	2,883,107	1,324,277	137,843	1,662,120	173,892	4,545,227	

6-inch pipe sewer in place December 1, 1928..... 1,204,505 lineal feet — 228.1250 miles
 8-inch to 30-inch pipe sewer in place December 1, 1928..... 3,340,722 lineal feet — 632.7083 miles



BUREAU OF MAINTENANCE

The Bureau of Maintenance under the direction of the City Engineer is charged with the proper repair of the sewers, such bridges as are under the supervision of the City, and of the street surface including sidewalks.

To handle this work a regular force of 76 persons is required with nearly double this number in occasional emergencies.

STREET REPAIR DIVISION

The Street Repair Division has been under the supervision of General Foreman J. K. Carr for 20 years, and many of the laborers have been with him for the same period. Together they have developed a very effective system for the maintenance of the graveled and macadamized streets, some of which can scarcely be distinguished from a good quality of bituminous pavement. These naturally, are streets which still have plenty of good stone in them and which have been reshaped until they are firmly compacted for the full depth of the surfacing material, and then oiled for one or more seasons.

A macadam street is not usually reshaped until it has become quite rough or badly pitted. It is then broken up by a pressure scarifier mounted on the rear of a ten-ton steam roller, and the loosened material is brought to as good a crown as is possible with the amount of rock available.

This is done largely by means of a small scraper on two low wheels, drawn by a tractor. The machine work is supplemented by men with shovels. Sometimes it is necessary to break up some of the larger stones with hammers where the material was not properly graded originally; and there are streets in which the proportion of large rocks is so great it is cheaper to throw them aside and haul in new material of the proper fineness than to break the large rocks. Occasionally additional rock is added, if the old material has been worn away to such an extent that there is an insufficient amount left to make a good job, but usually the street surface is rebuilt with the material found in it.

When the surface has been brought nearly to the proper shape it is thoroughly wet by a sprinkling wagon hauled over it by the tractor, and rolled with the ten-ton roller until the fine material is brought to the surface. Laborers with heavy street brooms sweep the muddy water back towards the crown of the street, and with shovels pick off the surfacing material from high spots and fill the depressions.

The street remains open to traffic during and after this process. In a week or two, depending upon the weather, the street dries out and the surplus fine material wears away from the surface, leaving many of the stones in sight. If the weather is warm enough at this time a coating of oil is spread, and worked into the street by the traffic. This treatment will last on the average residence street for about two years with only an additional coat of oil the second year.

Under certain classes of traffic, the macadamized streets will ravel in spots forming ugly chuck holes.

If there are only a few of these holes in a block, they are painted with hot asphalt, filled with crushed rock, pressed down by the roller, then sprinkled with hot "E" grade asphalt, covered with a layer of sand and rolled again.

Patches made in this way blend nicely with the remainder of the street surface, and being of higher grade construction, are usually in place when the rest of the street is worn out.

In the outlying districts where property will not bear the cost or assessment for a regular macadam or higher grade pavement, gravel center strips are put in by contract by the Maintenance Bureau and paid for by the interested residents or by the residents themselves in private agreement with a graveling contractor. Roads built by this method are maintained by the City by reshaping or by adding more gravel. Gravel for this work is obtained by the Maintenance Bureau from an abandoned fill made by the Mt. Hood Railway at Hassalo and East Eighty-ninth Streets.

SEWER DIVISION

Experience has demonstrated that for the great majority of the smaller sewer repair jobs, a crew of two men in sufficient and more economical than men working singly or in larger groups. On special jobs, however, the force is increased to as large a number of men as the foreman can handle efficiently. At such times several of the two-man crews are assembled with their tool boxes, and if still more men are needed, temporary laborers are hired for the job.

Emergency work, such as stopped sewers, setting out temporary barricades and red lights is handled by two men with a ton-and-a-half truck. The truck carries several lengths of fire hose which is used in flushing sewers and about a hundred and fifty feet of inch and a half smooth rubber hose used in connection with a self-propelling nozzle for opening sewers that have become stopped with rubbish through which the self propelling nozzle can force its way. Several hundred feet of jointed sewer rods with various kinds of special tools for opening stopped sewers by working from a manhole or other opening below the stoppage form a part of the emergency equipment.

The work of this crew is of a very trying nature, as it often arrives at the scene of trouble when the person who has made the complaint is in a very irritable frame of mind. It speaks well for the men on this work that the office receives so few complaints and so many complimentary remarks about their service.

A foreman and three men equipped with a turbine sewer cleaning outfit are kept busy throughout the year in flushing and cleaning sewers.

Since the operation of the turbine requires water pressure through a line of hose, and because the hose wears out quickly in this service besides being very hard to handle when full of water under pressure, it is used only in cases than can not well be cleaned by the chain-drag method.

The chain-drag consists of a knot of heavy chains wired together into a bundle a little smaller in diameter than the inside of the sewer being cleaned. Sectional rods are first forced through the sewer from a manhole and a 3/16-inch wire cable is pulled through with the rods.

This cable is attached to a 3/4-inch cable which is next pulled through and fastened to the knot of chains which is dragged back and forth by windlasses over the manholes until the pipe is free of sand, gravel and tree roots, which are the main causes of stoppages. A stream of water from a hydrant is poured into the sewer above the drag and carries the loosened material down to the lower manhole where it is stopped and hoisted to the surface in buckets.

Forty-two and five-tenths miles of sewers varying in size from 8 to 24 inches in diameter were cleaned in this manner during 1928 at an average cost of \$153 per mile.

One foreman has one or more two-man crews employed almost continuously repairing house connections in the street area, where the connections have been found to be defective; and in locating or installing house connections between the main sewer and the curb lines when plumbers are not able to find them and where they have been assessed against the abutting property. Most of the cases of "lost" house branches are on old lines of sewers which were laid before the Construction Bureau began the practice of cutting a letter "S" in the curb over the end of the branch.

The Sewer Division constructed three "french drains" during the year. One was built in Westover Road to intercept seepage water that came up through cracks in the pavement and froze on the surface during the cold weather. A shallow drain along the south parking strip was put in and its lower end connected with the sewer, making a satisfactory solution of the trouble.

At Spring and Lownsdale Streets a drain was put in before the fill was made, to prevent movement of the fill. As the excavation was shallow at this location, the cost was comparatively low.

On Thirty-first Street south of Thurman Street the fill which was being made on the west slope of Balch Gulch had repeatedly slipped into the gulch. Attempts to remedy this difficulty by cutting drains into the face of the slope had proved to be of little value. During the year 1928, a drain 19 feet deep for a part of the length, was put in along the west parking strip with its outlet at the south end.

The cost of this job, a little more than \$2,360, appears to have been justified, as no further movement beyond a little material settlement has occurred since the completion of the drain, and a steady stream comes from the outlet at all times.

An 8-inch sewer in Champlain Drive was found to be completely stopped up. Sewage was coming out through the top of a manhole, flowing down the street and into an inlet about 200 feet further down the hill. As this street was uninhabited, it is unknown how long the condition had existed. The trouble was discovered when a new house was built a little above this stoppage. Attempts to open the sewer by ordinary means were made without success. The concrete pavement was cut. The sewer was uncovered and opened to find that it was more than half full of hardened cement, and filled for the rest of its diameter with sand, gravel and silt.

One hundred and sixty-eight feet of 8-inch pipe was replaced in shallow trench at a cost of nearly \$420. This included the necessary new pipe and the pavement patches.

At Seventeenth Street between Myrtle and Clifton Streets 62 feet

of 10-inch sewer was relaid owing to subsidence of the ground through which it had been built and the consequent breaking of the pipe. This job cost \$510. The excavation was in muddy ground that had to be thoroughly timbered.

In East Twelfth Street south of Hawthorne Avenue 420 feet of 21-inch sewer was found to be badly broken and was relaid where necessary to use new pipe, and reinforced with concrete where the pipe was not so badly crushed. This work cost \$2940.

Other jobs of repairs to main sewers were at East Oak Street and Grand Avenue, where 42 feet of 21-inch pipe cost \$905 to repair. At East Fiftieth and East Sherman Streets, a very bad quicksand area, \$526 was spent in reinforcing and relaying 135 feet of 8-inch pipe.

On Hood Street at Grant Street investigation of a depression in the pavement showed that a broken sewer was the cause. The building of 212 feet of 21-inch sewer cost \$1907.

Work was done at three sewer outfalls as follows: Columbia Street, Stevens Slough and Burlington Street. These jobs cost respectively, \$476, \$490, and \$797.

A 24-inch pipe sewer in Washington Park broke, causing the concrete walk above it to cave in. The repair of this sewer and walk cost \$262.

A private sewer at First and Sheridan Streets, to which several houses were connected, broke, forming a pond of sewage. Owing to the difficulty of locating the main sewer or the lower end of the private sewer, as well as on account of the mass of rubbish of all descriptions through which the excavation had to be made, this was an unusually expensive job for a small one, the cost being \$325. This was charged to the owners.

Many smaller jobs of all descriptions, and the usual routine cases were handled by the Sewer Division.

BRIDGE DIVISION

The normal organization of the Bridge Division consists of a general foreman and four bridge carpenters. This force is enlarged when necessary to an economical size for the work upon which the men are engaged, 11 men being the largest number on the roll at one time during the year 1928.

The work done by the Bridge Division comprises a greater variety than any other division in the Bureau. Probably the most important work is the maintenance of the several steel bridges across various gulches and railroad tracks which must be kept painted to prevent corrosion. On account of the fact that the best results in painting can be obtained in the dry season, the force is usually increased enough to handle the season's painting in three or more of the warmer months.

By caring for a part of this work each year it is not necessary to incur an abnormal expense at any one time, and by patching the paint as necessary, when the spots needing attention are small, the amount of material used is lessened and the corrosion of the metal is reduced to a minimum. The cost of erecting staging is nearly the same whether the bridge is cleaned and painted only in small spots or a complete repainting job is done.

Another function of this division is the erection and maintenance of permanent barricades at street ends and other places where motorists might be injured by driving off the roadway.

Repairs to wooden stairways in streets and alleys are cared for by the Bridge Division. In many cases it is cheaper to rebuild wooden stairways as often as necessary than to construct concrete ones. There is, however, an element of risk that the wooden steps may become broken and cause accidents before the City has knowledge of their defective condition.

During 1928 barricade fences were built on College Street and Smeltar Road, the iron fence on Vista Avenue was repaired and repainted, the Burgard Avenue viaduct over the Union Pacific Railway tracks was repaired temporarily, considerable time was spent erecting street signs for the Construction Bureau, a store room in the basement of the City Hall was fitted with shelves, and Grand Avenue viaduct over Sullivan's Gulch was repainted, besides doing innumerable small jobs which could be best handled by this crew.

SIDEWALK DIVISION

At Jersey and Mohawk Streets an offset in the street was relieved by cutting back two corners on a long slant, leaving only four feet width of sidewalk at the property corner. At Jersey and Buchanan Streets the southwest corner was cut back to a long radius making it safer for vehicles en route to Portland from St. Johns.

A narrow throat at the intersection of Clifton Street and Broadway was widened about five feet allowing vehicles to pass in both directions at the same time without danger of collision.

At East Thirty-fifth and Clinton Streets, where the street car track was so close to the curb that motorists were forced to drive up on the curb to avoid collision with east-bound cars, and were sometimes caught against the curb by west-bound cars, the curb was cut back far enough to allow safe passage at all times.

At Twenty-fourth and Cornell Streets a fence that was frequently broken by automobiles skidding against it was removed and the wall extended in height an additional foot, making a more sightly as well as a safer type of construction.

Some extensive alterations were made in sidewalk and concrete paving around the Jefferson High School grounds, for School District No. 1, which paid for the work.

The sidewalks in Westmoreland were in particularly bad condition on account of the action of tree roots, so a very thorough job of repairing these was done after posting all defective walks in the district.

Numerous repairs were made to sidewalks after they had been posted and owners notified. This division attempts to keep the sidewalks of the City in a safe condition at all times.

OFFICE DIVISION

The Office Division issues permits for the use of streets, the bulk of these being for permission to open the streets for laying sewer or water connections and for gas, electric, steam and other conduits. The activities of this division are set forth in the tables of permits issued.

Two men were busy for most of the year inspecting sidewalks for defects and posting them for repairs. Re-inspections were made after 20 days from posting dates and if the required repairs had not been made, letters were written asking the owners whether or not they wished the City to do the work and stating that it would be done and assessed if not attended to before our crews could reach it. In a large majority of cases the letters were the cause of owners making their own repairs. Many asked the Bureau to do the work for them, and a few ignored both posted notices and letters so the repairs were made and the costs assessed.

The practice of sending letters following the posting of notices has reduced the friction with owners to a minimum. It has been demonstrated that this work is well worth the extra effort involved.

STORAGE YARD

The work at the Stanton Street Storage Yard is largely of a routine nature and consists principally in keeping on hand small stocks of such supplies as are in constant demand and of the tools frequently needed, and in issuing these on request of foremen and accounting for them.

TRACK WORK AND MISCELLANEOUS

During this year there has been some reconstruction of tracks of the Portland Electric Power Company, which was made necessary on account of the widening of Larrabee Street north of the Broadway Bridge, and also some new construction in Williams Avenue, due to the extension of this street to connect with the Railroad Bridge. There has also been considerable reconstruction in connection with other street improvement projects, but otherwise only maintenance work has been carried on by the crews of this company. There is still great need for complete reconstruction on many of the lines, such as Washington Street, Morrison Street, Third Street, Fifth Street, and First Street on the West Side, and Grand Avenue and Belmont Street on the East Side.

The other railroad companies have performed above the usual amount of maintenance work but no reconstruction has been undertaken. As a matter of fact, there is much agitation for the removal of interurban lines from Fourth Street, Salmon Street, Tenth Street, and Front Street, and it is reasonably certain that most if not all of these lines will be removed from the streets within the next few years, in which event it will simplify the track problem in the business district considerably.

The following gives a list of the special inspections, investigations and reports on special items made by the bureau:

DRIVEWAYS

Special driveways for gasoline service stations, garages, etc., were supervised to the number of 65.

GASOLINE CURB PUMPS

Applications for gasoline curb pumps have been investigated and reported upon to the number of 47.

GASOLINE AND FUEL OIL TANKS

Applications for gasoline and fuel oil storage tanks have been investigated and reported upon as follows: Gasoline tanks, 189; fuel oil tanks, 263.

LINES AND POLES

The placing of poles and guys by the public service corporations has, as usual, been the subject of considerable controversy at times, and it requires considerable time and diplomacy to adjust matters to the satisfaction of all concerned.

These cases have been handled to the number of 44.

APPLICATIONS

Under this heading comes a great variety of requests for use of the street areas, to construct new pole lines, to blast within the city limits, to construct spur tracks, etc.

These have been investigated to the number of 64.

HARD SURFACE PAVEMENTS

Many of the hard surface pavements are now passing out of the contractors' maintenance period and have to be carefully inspected for defects, which have to be made good by the contractor. Quite a number of other pavements have also been inspected for special purposes, and the total of these inspected have been 166.

HOUSE NUMBERS

The correction of house numbers, as well as the requirement that numbers be displayed, has required numerous trips and much time to adjust. In some instances, it has been necessary to readjust the numbers on an entire street in order to avoid confusion.

These cases have been handled to the number of 39.

OTHER MATTERS

Under this heading, there have been special investigations into claims for damages on account of accidents, Council documents, drainage conditions, street encroachments, etc.

These have been investigated to the number of 173.

MISCELLANEOUS COMPLAINTS

As usual, a great variety of complaints have been brought to the attention of this office. In many cases a correction was found necessary and obtained; in others an investigation would disclose merely personal animus on the part of neighbors. We have been careful to avoid involving the City in matters which were not legitimate, although all matters have been given careful attention.

The number of these complaints has been 149.

BUREAU OF STANDARDS

CHEMICAL DIVISION

Report of operations during fiscal year 1928:

Analyses of asphaltic pavement mixtures.....	141
Test of asphalt.....	70
Test of aggregates for paving mixtures.....	15
Test of lubricating oils—Samples.....	21
Flash point tests.....	15
Miscellaneous tests.....	12

PHYSICAL TESTING DIVISION

STRENGTH OF MATERIALS' TESTS FOR YEAR 1928

Classification	No. of Tests	Classification	No. of Tests
Belting	1	Loadometer	1
Black pipe	1	Logging block	1
Bronze	26	Rope	27
Building brick	12	Sand	138
Cable clamp	1	Sewer pipe, concrete.....	333
Cast iron	24	Ship plate	6
Cement	1,031	Steel, alloy	15
Chain	10	Steel, cast	51
Clay building tile.....	10	Steel, forged	24
Clay sewer pipe.....	1	Steel, manganese.....	9
Coil springs	3	Steel, mild	2
Concrete	592	Steel, reinforcement.....	47
Concrete building blocks.....	2	Steel, semi	1
Connecting links	2	Steel, structural.....	5
Diatomaceous earth.....	4	Swivels	3
Ferrules	9	Swivel butt hooks.....	2
Gravel	69	Truck wheels	2
Hydraulic jack	1	Welds	5
Inlet grates	2	Wire, copper	1
Jetty stone.....	5	Wire rope	1
Lifting arms	2	Wood pulp	1
Lime mortar	1		
		Total	2,484

CONCLUSION

In conclusion permit me to express appreciation to the many loyal employes of this department who by their co-operation have been instrumental in the successful completion of the work undertaken by this office.

Respectfully submitted,

O. LAURGAARD, CITY ENGINEER.

AVERAGE RESULTS OF TESTS OF PORTLAND CEMENT FOR YEAR 1928

Brand	Fineness % Passing		Time of Set		Accelerated Test 5 Hours Steam 212 F.	Tensile Strength 1 Cement: 3 Standard Sand		Number of Barrels Tested
	100 Mesh	200 Mesh	Initial Hrs. Min.	Final Hrs. Min.		7 Days Lbs. per Sq. In.	28 Days Lbs. per Sq. In.	
Beaver.....	98.0	87.8	2	4	OK	282	380	117,205
Cannon (Belgium).....	97.7	85.8	3	5	OK	343	417	33,000
F. C. W. H.....	98.7	89.2	2	5	OK	305	383	8,200
Golden Gate.....	98.6	87.3	2	4	OK	314	396	130,760
Good Hope (Belgium).....	98.6	86.7	2	6	OK	321	412	9,000
Haccourt (Belgium).....	98.7	87.4	2	5	OK	269	401	3,000
Lanaye (Belgium).....	98.5	90.0	3	4	OK	312	380	12,000
Mount Diablo.....	97.5	80.4	2	5	OK	300	408	29,000
Northwestern.....	97.8	83.3	2	4	OK	313	413	3,628
OK (Danish).....	98.5	89.8	4	8	OK	309	390	3,000
Oregon.....	97.8	86.9	3	5	OK	313	401	34,412
Santa Cruz.....	97.6	86.3	3	6	OK	326	420	62,401
Sum.....	98.4	89.7	2	5	OK	299	429	24,088
Vise (Belgium).....	98.4	86.2	3	6	OK	270	344	9,120

BUREAU OF BUILDINGS

ANNUAL REPORT FOR THE YEAR 1928

GENERAL OBSERVATIONS

Building operations for the year 1928 have shown a decrease in number and value, as compared to the year 1927. The major portion of this decrease occurred in the construction of dwellings and in quasi-public buildings, which are office buildings, hotels, stores, etc., with a slight decrease in the valuation of apartment houses. A comparison of the number of residences built in 1927 and 1928 shows that the number was reduced from 2353 to 1660, and the valuation decreased from \$10,050,450.00 to \$7,489,825.00. The volume of residence construction which has been, in previous years, running about one-half of the total building operations—in 1928 decreased to one-third. In view of the fact that there were some tendencies toward over-building residences, this reduction is probably a good thing. The decrease in the number and value of quasi-public buildings is occasioned by the reduction in the number and valuation of office buildings constructed. As construction in this line has been active for a number of years, this reduction is a good thing, as, without it, there would be an over-supply of office buildings.

In the construction of apartment houses, the number for 1928 is practically the same as for 1927, but the valuation was reduced. Some of this decrease in valuation is due to a slight reduction in the cost of building operations and some to the tendency to build small apartment houses rather than large ones.

OCCURRENCES DURING THE YEAR

The Housing Code, which was amended late in 1927, was printed in 1928 and copies of the same were available for the building public. As it had been impossible to obtain Housing Codes for some time previous to 1928, the building public were very much benefited.

The smoke ordinance which was passed in 1927 has been found beneficial and helpful. The smoke committee was appointed and has shown an interest in the work of reducing the amount of smoke emitted in the city. Many complaints were made relative to conditions at the Linnton plant of the Portland Gas & Coke Co., and, on account of the technical nature of the difficulties involved, Prof. R. B. Boals, of the Oregon Agricultural College, was employed to make a thorough investigation of this plant during the summer. The investigation made by him was a very thorough one and a very excellent report was turned in by him. The company, during the time the investigation was carried on, installed a smoke eliminator in their briquet plant, which eliminator was very effective in doing away with some of the conditions complained of. The Gas Company are to be commended for their co-operation with the City, with the Smoke Committee and with Prof. Boals.

The survey started by the Building Division in 1927 of existing wooden roof trusses was completed during the year. A number of

trusses were found to be in a condition where minor repairs were necessary to insure their safety. The owners of the buildings in which these trusses were located showed very fine spirit of co-operation in eliminating the hazards involved.

After a great deal of work and investigation on the part of a number of organizations in the building industry, an ordinance was recommended to the Council covering the licensing of general building contractors. This ordinance, after some discussion and changes, was passed, becoming effective July 1st. The general opinion seemed to be that this ordinance would be a protection to the public and would tend to improve conditions in the building industry. The experience that has been had in connection with this ordinance, although it does not extend over a long period, indicates that these expectations will be, in a measure, realized.

In the Plumbing Division, an ordinance was prepared covering the examination and registration of Plumbing Supervisors. This ordinance was passed April 25, 1928, and can confidently be expected to produce the same beneficial results that have followed the passage and enforcement of a similar ordinance in the Electrical Division.

OUTLOOK FOR 1929

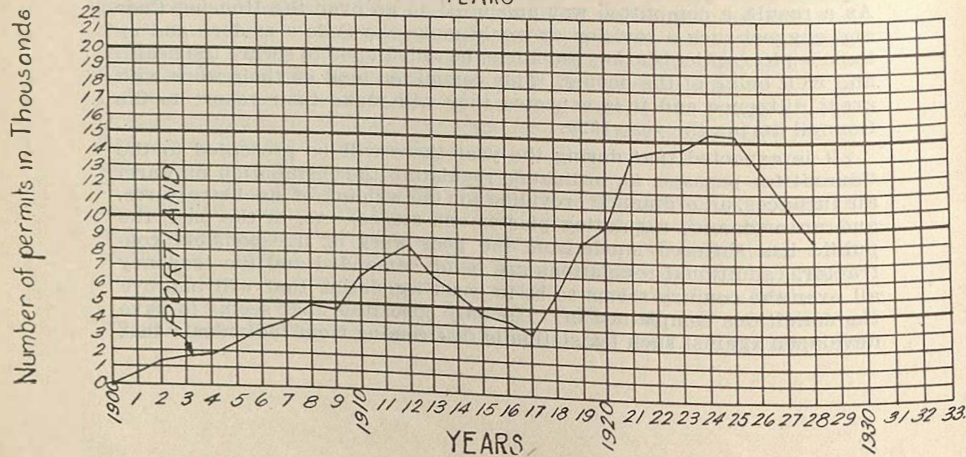
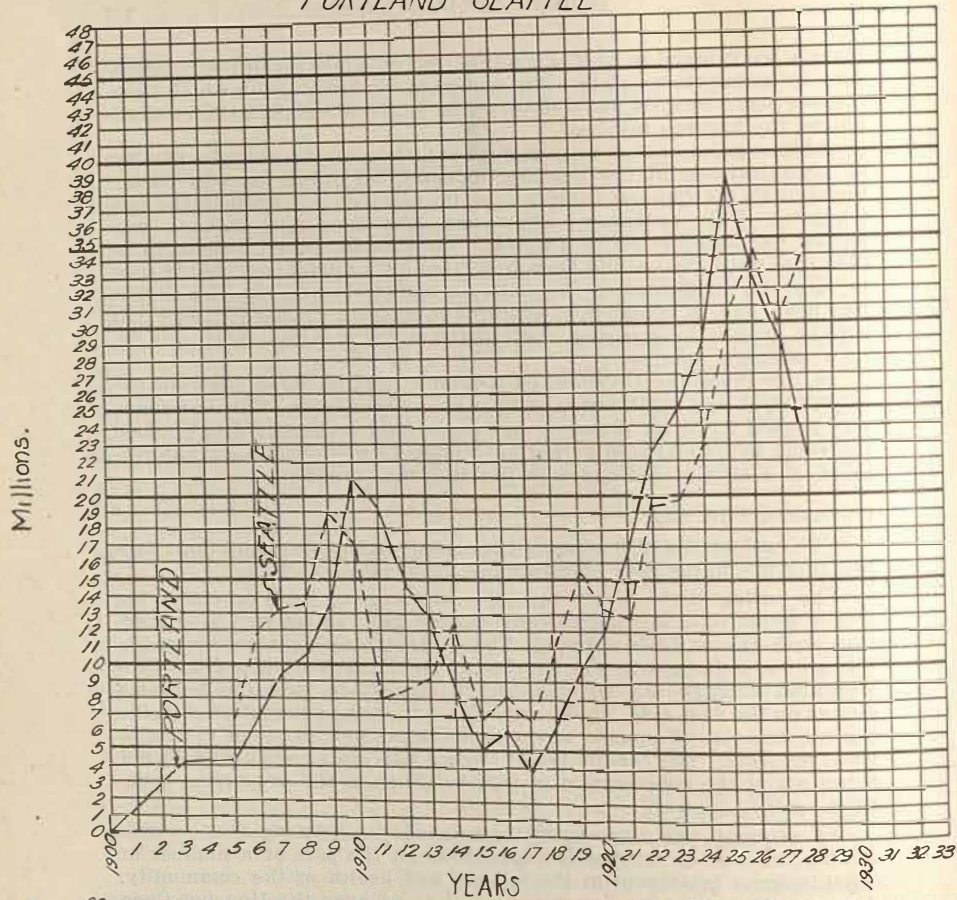
The outlook for 1929 appears to be good, as business conditions usually improve in the year following the Presidential election.

The voting of the people favorably on the bond issue providing for street widenings, will insure considerable building activity in connection with the widened streets. There appears to be, however, something of a reduction in the number of large buildings planned. Considerable activity can be expected in connection with the business center on the east side, which activities will, in the near future, involve the construction of a public market building, as well as one or two large hotel projects. The completion of the sea-wall on the west side should bring about the construction of new buildings in the properties benefited by this sea-wall.

An attempt was made to further amend the Housing Code, which attempt stirred up very active opposition on the part of a number of organizations interested in the welfare and health of the community. As a result, a committee was appointed to go over the Housing Code and suggest such a revision as would make the Code a modern and up to date piece of legislation which can be relied upon to secure the health and well being of the people. This committee took up their work with great diligence and it is expected they will make their report to the Council during the year 1929.

It is expected that during the year there will be presented to the Council for passage, an ordinance regulating the installation of warm air furnaces, an ordinance providing for the welding of steel structures, and an ordinance regulating plaster and stucco. As, in the past, the public has suffered much from the poor work of irresponsible contractors, additional regulations are being demanded and the tendency all over the country seems to be to enact legislation that will improve the conditions complained of. The only opposition that seems to have developed against such legislation is that coming from individuals that

COMPARATIVE BUILDING OPERATIONS BY YEARS
in Valuation by Millions
PORTLAND - SEATTLE



feel that our city governments should not enact legislation of a paternalistic character.

COMPARISON OF PORTLAND WITH OTHER PACIFIC COAST CITIES

Portland retains its position among the cities on the Pacific Coast the same in 1928 as in 1927, holding fourth place. Los Angeles is in the lead with \$101,678,768.00, followed by San Francisco with \$37,696,363.00, followed by Seattle with \$34,813,200.00. It is of interest to note that Los Angeles and San Francisco showed decreases in the volume of building operations in the year 1928. Portland's valuation of \$21,265,970.00 was well in the lead of Oakland, with its valuation of \$19,596,240.00.

BUILDING DIVISION

The work in the Building Division continued active in spite of the fact that there was a decrease in the volume of building operations, the total number of inspections for 1928 being 45,937 as compared with 47,629 in 1927. The activities of the Building Division are expanding. The enforcement of the Zoning Ordinance and the increased inspection involved in the approving of foundation forms before the concrete is poured means more inspections and more work per building.

Activities in connection with the Smoke Ordinance also involved some work and the enforcement of the General Contractors License Ordinance does the same. The passage of the amendment to the Building Code, extending the fire limits and creating a new fire limit, involves more work, as more work is involved in the regulation of buildings in the fire limits than outside.

ELECTRICAL DIVISION

The number of permits issued in the Electrical Division decreased in 1928 over 1927, the valuation remaining practically the same. These figures are 15,870 permits in 1928, with a valuation of \$2,226,155.00, and 16,029 in 1927, with a valuation of \$2,234,305.00.

PLUMBING DIVISION

The valuation and number of plumbing permits decreased in 1928 as compared to 1927, this decrease being somewhat proportionate to the general decrease in building operations. In 1928, there were 6,255 permits, with a valuation of \$1,477,215.00, while in 1927 there were 7,504 permits with a valuation of \$2,070,310.00. There was a decrease in the number of inspections made in the Plumbing Division proportionate to a reduction in the force, which was one inspector less in 1928 than in 1927. The number of inspections per man per day showed a slight increase.

PERMIT DIVISION

No occurrences in the Permit Division require special mention.

BUILDING CODE

The Building Code, which was passed in 1918, has been amended from time to time to modernize it. It is probably desirable to consider the question of preparing a new Building Code, as it is hardly reasonable to expect a Code to be good for more than ten or fifteen years without a complete revision.

The preparation of a Uniform Building Code by the Pacific Coast Building Officials Conference has occasioned wide interest and this Code has been adopted by a considerable number of the smaller communities. This Code is more up to date in many particulars than any other code, and it is probably desirable to consider the appointment of a committee to undertake the revision of the Portland Building Code, making use of the uniform code as a standard.

Since the Housing Code was amended, in 1927, there has been a reduction in the number of special ordinances granting exceptions to some regulation of the Housing Code. The number of these ordinances is 56.

Respectfully submitted,

H. E. PLUMMER,
INSPECTOR OF BUILDINGS.

BUILDING PERMITS ISSUED DURING THE PAST YEARS

	No.	Total Valuation	Average Value Per Permit
1900	392	\$ 944,985	\$2,410
1901	745	1,529,143	2,050
1902	1,244	2,730,660	2,195
1903	1,628	4,281,056	2,630
1904	1,720	4,029,225	2,340
1905	2,318	4,183,368	1,805
1906	3,166	6,902,032	2,180
1907	3,890	9,446,982	2,430
1908	4,849	10,405,151	2,145
1909	4,739	13,481,380	2,845
1910	6,525	20,886,202	3,200
1911	7,686	19,152,370	2,495
1912	8,224	14,652,071	1,780
1913	6,244	12,316,350	1,970
1914 (Dec. 1, 1913, to Nov. 30, 1914)	6,166	7,373,285	1,195
1915 (Dec. 1, 1914, to Nov. 30, 1915)	4,633	6,210,255	1,345
1916 (Dec. 1, 1915, to Nov. 30, 1916)	4,506	6,335,590	1,406
1917 (Dec. 1, 1916, to Nov. 30, 1917)	3,371	3,804,340	1,128
1918 (Dec. 1, 1917, to Nov. 30, 1918)	5,610	5,950,302	1,060
1919 (Dec. 1, 1918, to Nov. 30, 1919)	8,782	9,463,258	1,078
1920 (Dec. 1, 1919, to Nov. 30, 1920)	10,313	12,206,755	1,183
1921 (Dec. 1, 1920, to Nov. 30, 1921)	14,032	17,004,126	1,212
1922 (Dec. 1, 1921, to Nov. 30, 1922)	14,602	22,779,930	1,560
1923 (Dec. 1, 1922, to Nov. 30, 1923)	14,225	24,603,000	1,730
1924 (Dec. 1, 1923, to Nov. 30, 1924)	15,343	28,782,095	1,875
1925 (Dec. 1, 1924, to Nov. 30, 1925)	15,166	38,565,115	2,543
1926 (Dec. 1, 1925, to Nov. 30, 1926)	13,361	32,759,955	2,452
1927 (Dec. 1, 1926, to Nov. 30, 1927)	11,383	29,425,650	2,585
1928 (Dec. 1, 1927, to Nov. 30, 1928)	9,723	21,134,785	2,174
Totals	204,586	\$390,682,416	\$1,909

BUILDING PERMITS ISSUED FROM DECEMBER 1, 1927, TO NOVEMBER 30, 1928

Months	FIREPROOF BUILDINGS					
	Absolutely Fireproof Construction		Reinforced Concrete Construction		Alterations and Repairs	
	No.	Value	No.	Value	No.	Value
December, 1927	1	\$ 175,000.00	1	\$ 15,000.00	14	\$ 24,400.00
January, 1928			1	20,000.00	17	58,180.00
February			3	8,700.00	15	73,420.00
March			5	1,120,000.00	14	33,890.00
April			3	43,000.00	11	4,450.00
May			3	868,000.00	6	105,000.00
June			3	665,000.00	9	34,150.00
July			1	1,350,000.00	6	36,500.00
August			4	241,000.00	12	15,625.00
September			1	340.00	6	6,735.00
October			2	90,000.00	9	48,265.00
November			2	12,500.00	6	31,960.00
Totals	1	\$ 175,000.00	29	\$4,433,540.00	125	\$ 472,575.00

Months	NON-FIREPROOF BUILDINGS					
	Mill Construction		Ordinary Construction		Alterations and Repairs	
	No.	Value	No.	Value	No.	Value
December, 1927	2	\$ 55,000.00	9	\$ 193,500.00	56	\$ 59,730.00
January, 1928			5	53,000.00	68	89,660.00
February	1	15,000.00	9	67,900.00	62	33,860.00
March	2	1,300.00	21	586,100.00	67	63,565.00
April	2	65,000.00	25	195,000.00	51	51,020.00
May	2	77,000.00	14	655,500.00	42	91,075.00
June	1	1,500.00	8	308,340.00	40	126,915.00
July	2	76,000.00	15	275,650.00	38	70,380.00
August	1	250.00	9	317,800.00	56	70,395.00
September			16	433,250.00	46	71,820.00
October			16	250,735.00	63	94,955.00
November	4	16,900.00	9	201,435.00	30	31,445.00
Totals	17	\$ 307,950.00	156	\$3,548,210.00	619	\$ 854,820.00

Months	FRAME BUILDINGS			
	Frame Construction		Alterations and Repairs	
	No.	Value	No.	Value
December, 1927	288	\$ 515,095.00	273	\$ 78,830.00
January, 1928	277	696,930.00	184	59,205.00
February	476	1,217,280.00	331	98,745.00
March	518	979,960.00	315	116,350.00
April	413	1,118,400.00	323	95,135.00
May	431	997,535.00	349	101,825.00
June	412	904,985.00	58	243,150.00
July	314	870,520.00	293	90,985.00
August	374	750,480.00	390	104,410.00
September	372	645,805.00	473	112,305.00
October	355	732,645.00	433	122,170.00
November	279	420,505.00	238	63,245.00
Totals	4,509	\$ 9,850,140.00	3,960	\$ 1,286,355.00

BUILDING PERMITS ISSUED FROM DECEMBER 1, 1927, TO
NOVEMBER 30, 1928—Continued

Months	MISCELLANEOUS			
	Docks		Alterations and Repairs	
	No.	Value	No.	Value
December, 1927.....			1	\$ 3,000.00
January, 1928.....				
February.....			1	2,500.00
March.....				
April.....			3	9,805.00
May.....				
June.....			1	10,000.00
July.....			2	3,900.00
August.....	1	\$ 18,000.00	2	1,800.00
September.....			3	2,145.00
October.....			4	23,645.00
November.....				
Totals.....	1	\$ 18,000.00	17	\$ 56,795.00

Months	MISCELLANEOUS					
	Wrecks		Move		Excavation and Foundation	
	No.	Value	No.	Value	No.	Value
December, 1927.....	3	\$ 1,175.00	4	\$ 100.00	4	\$ 2,680.00
January, 1928.....	11	1,625.00			5	1,600.00
February.....	15	5,515.00			9	9,920.00
March.....	19	810.00	2	525.00	6	2,880.00
April.....	14	675.00	1	35.00	12	16,780.00
May.....	8	4,225.00	1	50.00	16	20,925.00
June.....	13	740.00	2	55.00	13	3,950.00
July.....	15	3,100.00	2	50.00	11	13,845.00
August.....	12	950.00	3	6,525.00	15	6,225.00
September.....	8	390.00	8	275.00	9	8,505.00
October.....	13	2,775.00	3	80.00	12	4,565.00
November.....	7	1,350.00	4	100.00	9	8,400.00
Totals.....	138	\$ 23,330.00	30	\$ 7,795.00	121	\$ 100,275.00

BUILDINGS GRADED ACCORDING TO OCCUPANCY FROM DECEMBER
1, 1927, TO NOVEMBER 30, 1928

Months	GRADE I		GRADE II		GRADE III	
	Public Utilities		Quasi-Public Buildings, Hotels, Office Buildings, Stores, Etc.		Tenements	
	No.	Value	No.	Value	No.	Value
December, 1927.....	3	\$ 187,700.00	9	\$ 136,500.00	5	\$ 148,000.00
January, 1928.....	4	65,400.00	10	84,200.00	3	83,000.00
February.....			18	202,400.00	4	114,000.00
March.....	8	777,500.00	23	740,895.00	6	256,500.00
April.....	1	20,000.00	18	229,700.00	5	205,000.00
May.....	2	185,300.00	20	1,227,500.00	6	305,000.00
June.....	2	507,200.00	17	378,450.00	2	146,000.00
July.....	5	1,522,000.00	26	271,660.00	5	190,200.00
August.....	4	271,000.00	29	354,465.00	3	154,000.00
September.....	2	65,000.00	17	110,100.00	6	387,000.00
October.....			18	185,015.00	5	232,500.00
November.....	1	12,000.00	10	116,500.00	1	100,000.00
Totals.....	32	\$3,613,100.00	215	\$2,037,385.00	51	\$ 2,321,200.00

Months	GRADE IV		GRADE V	
	Dwellings and Flats		Stables, Sheds and Small Garages	
	No.	Value	No.	Value
December, 1927.....	101	\$ 439,600.00	183	\$ 41,795.00
January, 1928.....	122	512,450.00	144	24,880.00
February.....	214	932,600.00	253	59,890.00
March.....	200	842,100.00	309	70,365.00
April.....	167	826,225.00	252	140,475.00
May.....	180	794,075.00	242	96,160.00
June.....	171	775,000.00	232	73,175.00
July.....	111	549,000.00	185	39,310.00
August.....	108	490,775.00	245	57,290.00
September.....	95	446,050.00	269	71,245.00
October.....	107	504,650.00	243	151,215.00
November.....	84	377,300.00	198	45,540.00
Totals.....	1,660	\$ 7,489,825.00	2,755	\$ 871,330.00

ELECTRICAL PERMITS ISSUED DURING THE PAST YEARS

Year	No.	Valuation	Average Value Per Permit
1912	2,161	\$ 127,951.00	\$ 59.20
1913	7,336	652,810.00	88.98
1914	7,859	506,050.00	64.45
1915	6,496	464,510.00	72.72
1916	6,241	547,820.00	87.77
1917	4,875	654,610.00	134.33
1918	5,588	832,295.00	149.12
1919	7,761	902,149.00	117.00
1920	9,527	1,365,216.00	143.30
1921	12,061	1,765,070.00	146.30
1922	16,424	1,582,720.00	96.37
1923	16,580	2,021,285.00	108.89
1924	18,241	2,454,300.00	134.54
1925	18,097	2,423,945.00	134.00
1926	18,467	2,349,070.00	127.20
1927	16,029	2,234,305.00	139.39
1928	15,870	2,226,155.00	140.27
Total	189,613	\$23,110,261.00	\$121.88

ELECTRICAL PERMITS ISSUED

Month	1927			1928		
	No.	Total Valuation	Average Value per Permit	No.	Total Valuation	Average Value per Permit
December, 1927	1,229	\$ 222,630.00	\$ 181.14	1,366	\$ 141,900.00	\$ 103.15
January, 1928	1,117	172,975.00	154.85	975	142,040.00	145.68
February	971	115,390.00	118.84	1,110	121,895.00	109.81
March	1,380	180,435.00	130.75	1,426	191,440.00	134.25
April	1,554	159,565.00	102.68	1,321	286,725.00	217.05
May	1,404	177,275.00	125.55	1,441	194,615.00	135.06
June	1,436	175,420.00	122.16	1,458	202,350.00	138.79
July	1,275	219,120.00	171.85	1,306	245,140.00	187.70
August	1,348	161,770.00	120.00	1,448	190,470.00	131.54
September	1,289	159,770.00	123.95	1,260	163,020.00	129.38
October	1,502	277,585.00	184.81	1,503	190,085.00	126.47
November	1,524	212,370.00	139.36	1,256	156,475.00	124.53
Totals	16,029	\$2,234,305.00	\$ 139.39	15,870	\$2,226,155.00	\$ 140.28

ELECTRICAL SIGN PERMITS ISSUED

1927		1928	
No.	Value	No.	Value
646	\$197,315.00	917	\$381,885.00

PLUMBING PERMITS ISSUED DURING PAST YEARS

Year	No.	Valuation	Average
1917	2,640	\$ 348,790.00	\$132.12
1918	3,439	548,463.00	159.48
1919	4,369	801,554.00	183.46
1920	4,754	1,084,641.00	228.15
1921	7,941	1,779,218.00	224.06
1922	9,709	2,320,790.00	239.03
1923	8,920	2,239,800.00	251.10
1924	9,718	2,452,445.00	252.35
1925	9,352	3,582,495.00	383.07
1926	8,809	2,719,415.00	308.70
1927	7,504	2,070,310.00	275.89
1928	6,255	1,477,215.00	236.17
Totals	83,410	\$21,425,136.00	\$256.87

PLUMBING PERMITS ISSUED

Month	1927			1928		
	No.	Total Valuation	Average Value per Permit	No.	Total Valuation	Average Value per Permit
December, 1927	534	\$ 152,390.00	\$ 285.37	435	\$ 99,845.00	\$ 229.53
January, 1928	436	106,210.00	243.60	335	74,805.00	223.28
February	655	191,050.00	291.68	620	141,855.00	228.80
March	876	267,135.00	304.93	689	160,845.00	274.48
April	748	238,250.00	318.52	586	140,835.00	240.33
May	677	176,565.00	260.80	610	157,150.00	257.62
June	657	192,090.00	292.37	584	147,905.00	253.26
July	564	160,775.00	285.06	544	141,285.00	259.71
August	658	208,055.00	317.71	538	140,000.00	260.22
September	592	127,255.00	214.95	409	101,395.00	247.95
October	620	132,790.00	214.18	511	109,475.00	214.24
November	487	117,745.00	241.78	394	61,820.00	156.90
Totals	7,504	\$2,070,310.00	\$ 275.89	6,255	\$1,477,215.00	\$ 236.17

GENERAL REPORT OF BUILDING DIVISION

	1927	1928
Total days' inspection.....	2,540	2,477
Total number of inspections.....	47,629	45,934
Ordinance violations discovered.....	4,277	3,558
Municipal Court prosecutions.....	44	24
Circuit Court prosecutions.....	8	14
Jobs started without permits.....	259	179
Elevator inspections.....	.....	7
Complaints investigated.....	229	218
Billboard inspections.....	305	292
Sign inspections.....	811	1,442
Fire reports.....	9	9
Accident reports.....	13	11
Dangerous buildings.....	.....	2
Average value of daily permits.....	\$98,085.50	\$76,024.40
Average number of permits per day.....	38	35
Average daily inspections per man.....	(20.8% Dec.) 22.9	(8% Dec.) 22.3
Fees for building permits.....	7.7% Dec.)	(2.6% Dec.)
Fees for billboard permits.....	\$33,973.80	\$25,556.50
Letters written.....	\$253.40	\$213.00
Circulars and bulletins.....	5,000	4,280
Reports, ordinances, etc.....	6,503	8,300
	652	257

GENERAL REPORT OF ELECTRICAL DIVISION

	1927	1928
Total days' regular inspections.....	2,283	2,329.5
Total number regular inspections.....	45,160	38,705
Total days' special inspections.....	725	768.5
Total number special inspections.....	5,003	4,856
Ordinance violations discovered.....	10,959	8,848
Municipal Court prosecutions.....	14	9
Circuit Court prosecutions.....	.....	.....
Jobs without permits.....	.....	.....
Defective wiring—Fire Marshal's reports....	684	544
Car tickets.....	541	113
Average value of daily permits.....	1,483	1,151
Average number of permits per day.....	\$8,037.00	\$7,894.17
Average regular inspections per man.....	58	57
Receipts—Fees for permits.....	18.5	18.5
Receipts—Fees for sign permits.....	\$29,442.89	\$25,606.91
Total receipts from other sources.....	\$321.50	\$453.50
Total receipts from all sources.....	\$5,524.50	\$5,711.51
Letters written.....	\$35,288.89	\$31,866.91
Circulars and bulletins.....	1,014	870
	6	3,000

GENERAL REPORT OF PLUMBING DIVISION

	1927	1928
Total days' inspection.....	1,658	1,421
Total number of inspections.....	22,241	18,871
Ordinance violations.....	2,994	2,326
Municipal Court prosecutions.....	9	11
Circuit Court prosecutions.....	.....	.....
Supreme Court prosecutions.....	.....	.....
Complaints investigated.....	1,138	1,145
Average value of daily permits.....	\$6,901.03	\$5,313.72
Average number of permits per day.....	25	22.2
Average daily inspections per man.....	13.5	13.9
Total fees for plumbing permits.....	\$24,296.00	\$18,692.00
Number of letters written.....	3,942	3,654
Form letters, notices, etc.....	574	600

MUNICIPAL PAVING PLANT

Portland, Oregon, March 1, 1929.

MR. A. L. BARBUR, COMMISSIONER OF PUBLIC WORKS, PORTLAND, OREGON.

Dear Sir: There is submitted herewith the annual report of the Municipal Paving Plant, for the fiscal year ended November 30, 1928.

There is included in the report, a complete copy of the Report on Annual Audit, of Peat, Marwick, Mitchell & Co., Accountants and Auditors, for the fiscal year 1928.

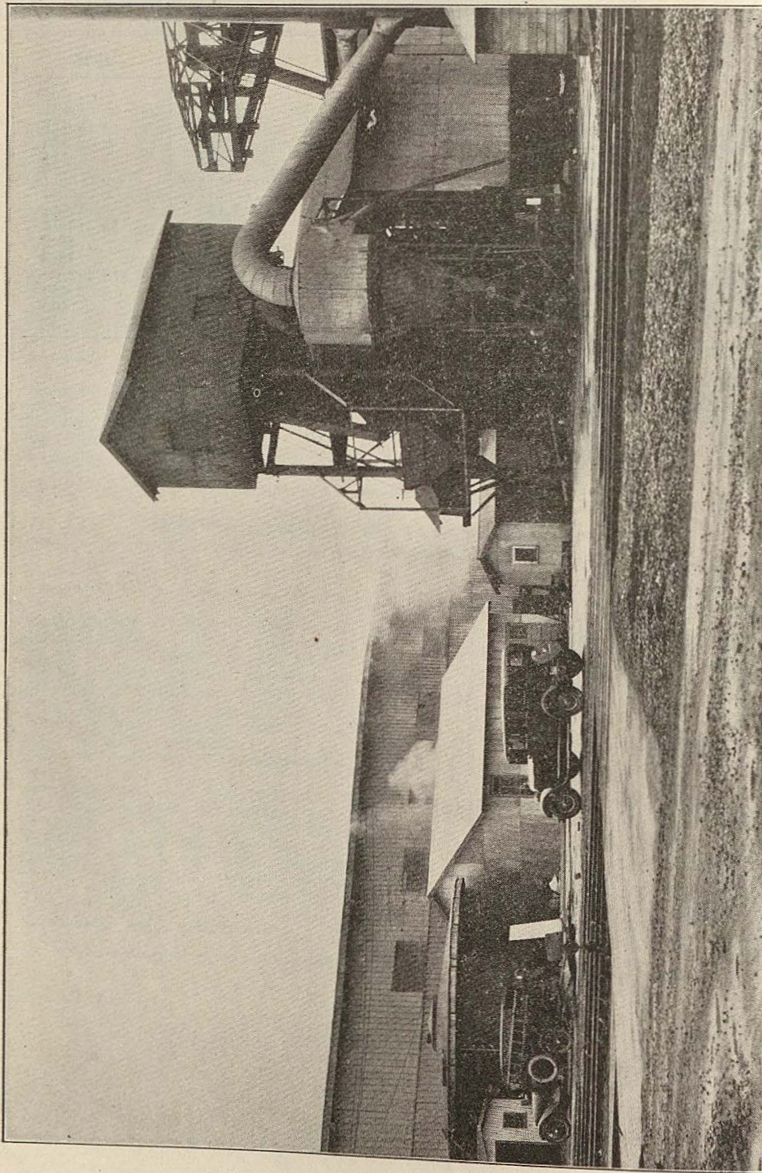
In addition, there are included certain statements compiled by the Paving Plant Division as enumerated in the index.

Respectfully submitted,

R. S. DULIN,
SUPERINTENDENT, MUNICIPAL PAVING PLANT.

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MUNICIPAL PAVING PLANT

PEAT MARWICK, MITCHELL & CO.
Accountants and Auditors,
Northwestern Bank Bldg., Morrison St., Cor. Broadway

Portland, Oregon, February 16, 1929.

HON. A. L. BARBUR, COMMISSIONER OF PUBLIC WORKS, PORTLAND, OREGON.

Dear Sir: In accordance with your instructions, we have audited the accounts of the City of Portland pertaining to the operations of the Municipal Paving Plant for the year ended November 30, 1928, and now submit our report thereon, together with the statements enumerated in the index appended hereto.

The Municipal Paving Plant is operated as a division of the Bureau of Standards under the Department of Public Works. Its operations consist in the laying of new pavements, repairing pavement cuts for the Bureau of Maintenance and for public utility companies, and doing small paving jobs for commercial concerns or individuals. Charges for laying new pavement are based on flat prices for materials and labor with a fixed charge per square yard for overhead costs. In addition to this, the City adds a 10 per cent surcharge before passing the assessment on to the property owners. This surcharge is not included in the accounts of the Paving Plant. Repair work and miscellaneous services are charged for at more or less fixed prices. Cost records are maintained which show that the rates charged are in excess of cost. On all new improvement work, five cents per square yard of pavement laid is reserved to provide for its maintenance for a period of five years.

Our audit embraced the verification, as hereinafter described, of the assets and liabilities of the Department as at November 30, 1928, and also a review of the operating accounts for the year then ended. In that connection, and in order to satisfy ourselves regarding the general accuracy of the accounts, we made a series of tests of the transactions relating to cash receipts and disbursements, purchases, expenses, sales and other matters of detail.

OPERATIONS

After meeting all operating expenses, including maintenance of physical properties and provision for their depreciation, and after providing for the estimated cost of maintaining for five years all new pavement laid during the period, the net income for the year ended November 30, 1928, amounted to \$55,875.29. The following is a condensed comparative statement of operations for the years ended November 30, 1928, and 1927, together with a table of percentages based on net revenue:

Particulars	1928	1927	% NET REVENUE	
			1928	1927
Net Revenue.....	\$ 265,760.93	\$ 272,547.75	100.00	100.00
Expenses.....	212,502.98	219,796.88	79.96	80.62
Net Operating Profit.....	\$ 53,257.95	\$ 52,750.87	20.04	19.38
Miscellaneous Income or *Charges (Net).....	2,617.34	*15,166.88	.98	*5.63
Net Income.....	\$ 55,875.29	\$ 37,583.99	21.02	13.75

* Charges.

The miscellaneous charges of the preceding year included approximately \$20,000.00, representing losses in abandoning an old plant and expenses in moving machinery to a new location.

Further particulars of the operations for the year under review will be found in the Profit and Loss Account, Exhibit "A", appended to this report. The net income has been transferred to Surplus Account, a statement of which is presented below:

Surplus as at November 30, 1927.....		\$110,108.38
Add net income for the year ended November 30, 1928		55,875.29
		\$165,983.67
Deduct:		
Cash transferred to General Fund—		
August 22, 1928, Ordinance No. 55112.....	\$ 10,000.00	
August 22, 1928, Ordinance No. 55118	30,000.00	40,000.00
		\$125,983.67
Surplus as at November 30, 1928.....		\$125,983.67

The composition of the November 30, 1928, balance of surplus is as follows:

Total net earnings to November 30, 1928.....	\$ 301,183.67
Less amounts transferred by ordinance to other City funds.....	175,200.00
	\$125,983.67

FINANCIAL POSITION

The financial position of the Municipal Paving Plant at November 30, 1928, is set forth in detail in the Balance Sheet, Exhibit "B", appended to this report. The following statement presents a Condensed Balance Sheet at November 30, 1928, in contrast with that of November 30, 1927:

CONDENSED BALANCE SHEET

	November 30		Increase
	1928	1927	
Assets			
Current Assets—			
Municipal Paving Rotary Appropriation Account...	\$ 2,133.90	\$ 30,141.32	*\$ 28,007.42
Accounts receivable—Repairs and special jobs....	18,579.09	11,484.96	7,094.13
Inventory of materials and plant stores	9,881.41	2,942.04	6,939.37
Total current assets...	\$ 30,594.40	\$ 44,568.32	*\$ 13,973.92
Prepaid expenses	939.38	432.75	506.63
City of Portland.....	92,993.93	114,638.12	*21,644.19
Plant and equipment.....	119,804.03	111,923.36	7,880.67
Total	\$244,331.74	\$271,612.55	*\$ 27,280.81
Liabilities			
Current Liabilities—			
Notes payable—Bank (secured)		\$ 40,000.00	*\$ 40,000.00
Accounts payable—Trade creditors	\$ 570.50	2,394.46	*1,823.96
Accrued interest		186.67	*186.67
Total current liabilities	\$ 570.50	\$ 42,581.13	*\$ 42,010.63
Reserve for maintenance of pavement	26,185.44	27,330.91	*1,145.47
Appropriations from General Fund	91,592.13	91,592.13	.....
Surplus	125,983.67	110,108.38	15,875.29
Total	\$244,331.74	\$271,612.65	*\$ 27,280.81

* Decrease.

Contingent Liabilities—None.

In connection with our analysis and verification of the accounts relating to assets and liabilities at November 30, 1928, the following comment is submitted:

ASSETS

The Rotary Fund balance (\$2,133.90) was verified by inspection of the controlling accounts in the general ledger of the City of Portland and the ledger accounts of the City Treasurer.

The accounts receivable consist of accounts due from other City bureaus, contractors and corporations for work done by the Paving Plant. All accounts appear to be in process of collection.

We verified the footings and extensions of the inventory of materials and supplies, and obtained a certificate from the Superintendent as to quantities and values. The articles are priced at cost, and from

our examination we believe the inventory is correctly stated in the books and on the Balance Sheet.

The prepaid expenses, consisting of unexpired insurance premiums of \$939.38, were verified by us.

Amounts due from the City of Portland are as follows:

Warrants on hand for payment improvements.....	\$ 908.34
Warrants to be received from the City Auditor.....	57,008.72
Loan to the Engineering Rotary Fund.....	30,000.00
Loan to the Auditorium Fund.....	4,000.00
Uncompleted maintenance	1,076.87
Total	\$92,993.93

Cash is received for warrants as monies are received by the City of Portland from property owners, or from the sale of bonded assessments. The warrants bear interest at 6 per cent per annum from date until called. The completed assessments for which warrants have not been issued also bear interest at 6 per cent for a 48-day period from the date of completion of the work. All warrants were produced for our inspection or were otherwise satisfactorily accounted for. We verified those assessments for which warrants had not been issued by inspection of the City records.

The loan of \$30,000 made to the Engineering Rotary Account for the purpose of aiding in financing the Front Street Intercepting Sewer and Drainage System was unpaid at November 30, 1928. The loan was made June 29, 1927, and bears no interest. During the year a loan of \$4000 was made to the Auditorium Fund. This loan was made October 24, 1928, and bears no interest. We inspected the ordinances authorizing these loans.

Uncompleted maintenance, \$1076.87, consists of uncompleted work for other City Departments which will be finished and billed to the departments shortly after the close of the year. We verified these charges from production records.

The property, plant and equipment is stated at cost after deducting appropriate allowances for depreciation to November 30, 1928. Particulars of the fixed asset accounts included under this caption and the depreciation reserves provided there against, will be found in Schedule "I", appended to this report. During the period under review, the gross expenditures on additions to property, plant and equipment aggregated \$21,096.72, for which properly approved vouchers and other documents were submitted, while the depreciation provision amounted to \$13,145.11. The expenditures were for the completion of the new paving plant at River and Essex Streets and for sundry equipment.

LIABILITIES

The records were carefully examined as to current liabilities, and from such examination we believe they are fully disclosed in the books and on the Balance Sheet at November 30, 1928.

The loan of \$40,000 obtained from the Security Savings & Trust Company in November of last year was repaid during the year under review, and no other indebtedness of this nature existed at November 30, 1928.

We obtained a certificate from the Superintendent of the Paving Plant that no contingent liabilities existed as at the date of the Balance Sheet and our audit did not disclose any liabilities of that nature.

The reserve for maintenance of pavement (\$26,185.44) is the balance remaining after crediting the account with 5 cents per square yard charged on all new pavement laid and charging the account with repair costs. The account includes \$3588.67 unused balances for pavement maintenance of streets on which the five-year period has elapsed.

The appropriations from general funds, \$91,592.13, is the balance of the original appropriation from the general funds of the City to erect the plant and provide working capital.

The Paving Plant loan account in the general ledger of the City of Portland shows that this appropriation has been fully returned by transfers of surplus funds from the Paving Plant and by surcharges to property owners of 10 per cent per square yard on new pavement laid, these surcharges having been collected directly by the City without passing through the Paving Plant books. During the year, the collections made by the City of 10 per cent surcharges on new pavement amounted to \$2,515.28, of which \$333.01 was credited to the Paving Plant loan account and the balance to the General Fund of the City. The following statement shows how the appropriation was returned:

Credits made by City Auditor to Paving Plant Loan Account instead of to General Fund, covering transfers of funds from Paving Plant Surplus to the General Fund.....	\$15,200.00
Collections made by the City of 10% surcharges on new pavement and credited to Paving Plant Loan Account, but which were not passed through the accounts of the Paving Plant.....	76,392.13
Total	\$91,592.13

We examined the insurance policies. Fire insurance to the extent of \$30,750 is carried on the buildings, dock and machinery, the net book value of which at November 30, 1928, was approximately \$71,500. Liability insurance is carried on auto trucks, steam rollers and boilers, and the Paving Plant also operates under the Workmen's Compensation Act of Oregon.

The accounts have been kept in a careful and accurate manner. The accounting is on the accrual basis, while the records of the City of Portland include only cash receipts and disbursements, and for this reason the surplus and the appropriation accounts on the Paving Plant books are not reflected in the City accounts.

GENERAL

We have observed that from time to time cash has been transferred from the funds of the Paving Plant to the General Fund of the City. We would point out that while the accounts of the Paving Plant show a surplus of \$125,983.67, this is not a surplus of cash but is represented by money invested in plant and equipment, sums due from the City of Portland, and other amounts due to the Paving Plant. It would appear from the accounts that the operations of the

Paving Plant might be hampered if the working capital were depleted to a small sum by diverting funds. We would suggest that the working capital be the only basis for considering the transfer of funds in the future.

Yours truly,

PEAT, MARWICK, MITCHELL & CO.

INDEX TO STATEMENTS

Profit and loss account for the year ended November 30, 1928.....	Exhibit "A"
Balance sheet as at November 30, 1928.....	"B"
Property, plant and equipment as at November 30, 1928.....	Schedule "I"

EXHIBIT "A"

PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED
NOVEMBER 30, 1928

Revenue—			
New paving		\$ 72,189.63	
Less maintenance reserve.....		2,220.85	
		<u>\$ 69,968.78</u>	
Repairs to hard surface streets.....		144,882.96	
Miscellaneous work		50,909.19	
Net revenue		<u>\$265,760.93</u>	
Expenses—			
Direct expenses:			
Direct labor	\$ 50,069.05		
Superintendence	12,785.40		
Hired trucks and teams.....	8,345.35		
Plant trucks—Supplies, re- pairs and depreciation.....	7,005.20		
Passenger autos—Supplies, repairs and depreciation....	1,425.37		
Road rollers—Supplies, repairs and depreciation	3,768.60		
Subcontracts	28,236.05		
Sand	5,031.76		
Gravel	2,142.31		
Screenings	8,513.79		
Crushed rock	9,760.87		
Cement and rock dust.....	919.65		
Asphalt	33,610.17		
Filler sand	2,561.19		
Coal oil	1,046.25		
Fuel oil	7,257.89		
Lubricating oil	413.29		
Distillate	1,954.76		
Fuel	36.90		
Power and light at plant.....	1,017.08		
Sundry materials and supplies	37.40		
Total direct expenses.....	<u>\$185,938.33</u>		
Indirect expenses:			
Unproductive time	\$ 5,752.00		
Watchmen	1,566.47		
Office expenses, including de- preciation	1,181.16		
Carfare	51.10		
Insurance, liability	1,443.86		
Insurance, fire	346.30		
Telephone	131.69		
Small tools	809.40		
Plant supplies	2,410.56		
Plant maintenance and re pairs	3,491.58		
Crane maintenance and re- pairs	477.07		
Plant depreciation	8,852.35		
Sundry expenses	1,604.86		
Total expenses	<u>\$214,056.73</u>		
Less Expenses Applicable to New Plant—			
Construction work	1,553.75		
Total expenses (net).....		212,502.98	
Net operating profit.....		<u>\$ 53,257.95</u>	

EXHIBIT "A"—Continued

PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED
NOVEMBER 30, 1928—Continued

Miscellaneous Income—			
Interest Income:			
From bank deposits.....	\$ 1,089.26		
From improvement warrants.....	1,988.59		
Salvage from old plant, pre- viously written off.....	125.00		
Profit on sale of steam road roller	499.00		
Profit on sale of Ford roadster.....	142.77		
	<u>\$ 3,844.62</u>		
Less Miscellaneous Charges—			
Interest	\$ 1,164.57		
Loss on sale of Maxwell auto....	62.71	1,227.28	
Miscellaneous income (net).....			2,617.34
Net income			<u>\$ 55,875.29</u>

SURPLUS ACCOUNT

Surplus as at November 30, 1927.....		\$110,108.38
Add—		
Net income for the year ended November 30, 1928		55,875.29
		<u>\$165,983.67</u>
Deduct cash transferred to the General Fund—		
August 22, 1928, Ordinance No. 55112.....	\$ 10,000.00	
August 22, 1928, Ordinance No. 55118.....	30,000.00	40,000.00
Surplus as at November 30, 1928.....		<u>\$125,983.67</u>

EXHIBIT "B"

BALANCE SHEET AS AT NOVEMBER 30, 1928

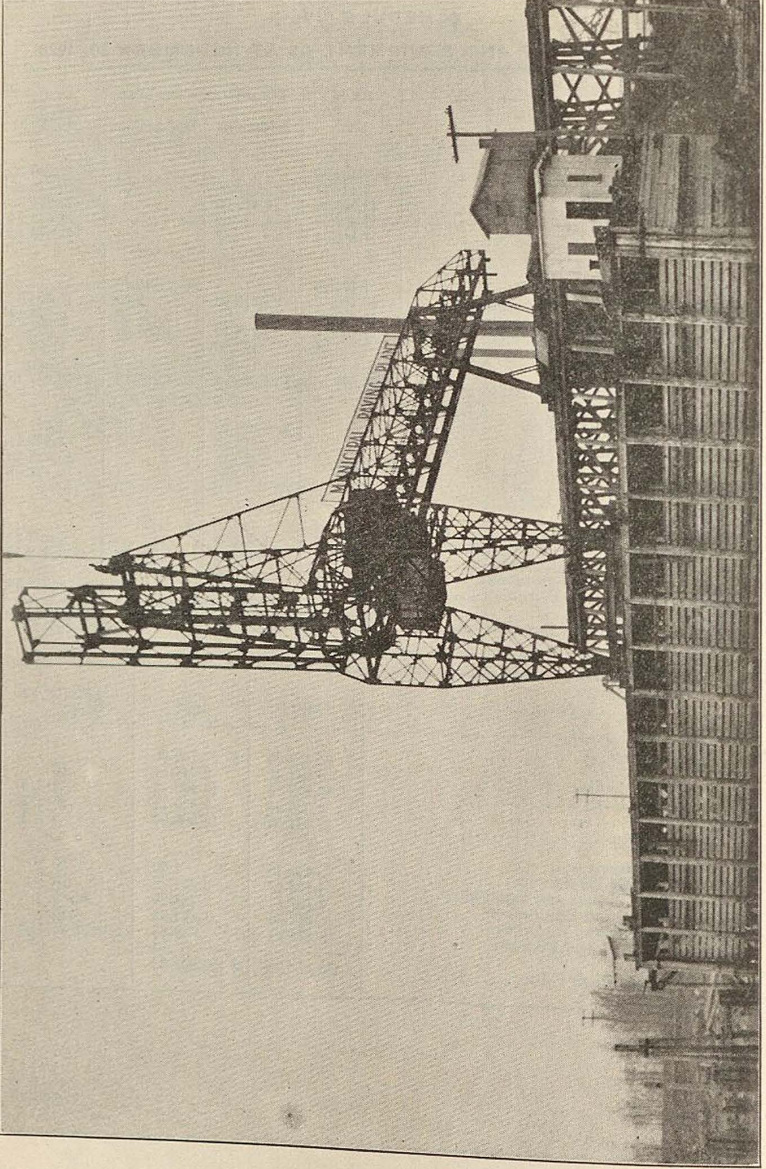
Assets—		
Current Assets:		
Municipal Paving Rotary Appropriation Account	\$ 2,133.90	
Accounts Receivable—Repairs and special jobs	18,579.09	
Inventory of material and plant stores	9,881.41	
Total Current Assets.....		\$ 30,594.40
Prepaid Expenses:		
Insurance	939.38	
City of Portland.....	92,993.93	
Plant and Equipment:		
Land and land improvement	\$ 33,416.23	
Building and docks.....	52,871.26	
Machinery	33,334.31	
Equipment	23,451.65	
	\$148,073.45	
Less reserve for depreciation.....	28,269.42	119,804.03
		\$244,331.74
Liabilities—		
Current Liabilities:		
Accounts payable—trade creditors.....	570.50	
Reserve for maintenance of pavement.....	26,185.44	
Appropriations from General Fund.....	91,592.13	
Surplus	125,983.67	
		\$244,331.74
Contingent Liabilities—None.		

SCHEDULE "I"

PROPERTY, PLANT AND EQUIPMENT AS AT NOVEMBER 30, 1928

	As at Nov. 30, 1927	Transactions for Year		As at Nov. 30, 1928
		Additions	Deductions	
Gross Book Value—				
Land	\$ 27,700.00			\$ 27,700.00
Land Improvements.....	6,633.27	\$ 4,082.96		10,715.23
Buildings and Dock.....	42,998.26	9,873.00		52,871.26
Machinery.....	13,662.59	1,986.62		15,649.21
Gantry Crane.....	17,684.58	.52		17,685.10
Sundry Equipment—				
Street Working Equipment.....	1,194.40		\$ 1,193.40	1.00
Steam Road Rollers and Equipment.....	10,160.37	3,215.00	1.00	13,374.37
Motor Trucks and Equipment.....	11,538.39		5,361.25	6,177.14
Passenger Cars and Equipment.....	1,759.38	1,745.37	1,509.38	1,995.37
Office Furniture and Fixtures.....	1,710.52	193.25		1,903.77
Total Gross Book Value.....	\$135,041.76	\$ 21,096.72	\$ 8,065.03	\$ 148,073.45
Reserve for Depreciation—				
Land Improvements.....		\$ 1,071.62		\$ 1,071.62
Buildings and Docks.....		3,375.14		3,375.14
Machinery.....	\$ 7,656.15	2,432.35		10,088.50
Gantry Crane.....		1,177.05		1,177.05
Sundry Equipment—				
Street Working Equipment.....	747.14	446.26	\$ 1,193.40	7,122.65
Steam Road Rollers and Equipment.....	6,056.70	1,065.95		7,122.65
Motor Trucks and Equipment.....	6,480.98	2,632.42	5,361.25	3,752.15
Passenger Cars and Equipment.....	1,141.82	594.39	1,439.44	296.77
Office Furniture and Fixtures.....	1,035.61	349.93		1,385.54
Total Reserve for Depreciation.....	\$ 23,118.40	\$ 13,145.11	\$ 7,994.09	\$ 28,269.42

	1927	1928	Depreciation Rates %
Net Book Value—			
Land	\$ 27,700.00	\$ 27,700.00	
Land Improvements.....	6,633.27	9,644.61	10
Building and Dock.....	42,998.26	49,496.12	6-2/3
Machinery.....	6,006.44	5,560.71	16-2/3
Gantry Crane.....	17,684.58	16,508.05	6-2/3
Sundry Equipment—			
Street Working Equipment.....	447.26	1.00	50
Steam Road Rollers and Equipment.....	4,103.67	6,251.72	10
Motor Trucks and Equipment.....	5,057.41	2,424.99	20-25
Passenger Cars and Equipment.....	617.56	1,698.60	25
Office Furniture and Fixtures.....	674.91	518.23	10-20-33-1/3
Total Net Book Value.....	\$ 111,923.36	\$ 119,804.03	



MUNICIPAL PAVING PLANT — RIVER-FRONT VIEW

MUNICIPAL PAVING PLANT, PORTLAND, OREGON, PRODUCTION REPORT FOR FISCAL YEAR 1928 ENDED NOVEMBER 30, 1928

Job No. P.	Street	Limits	Cost of Sub-grade and Extras	Cost of 4" Crushed Rock Base	Cost of 2" Asphaltic Concrete Top	10% Cost of Top for General Fund	Total Cost of Top Inc. 10% General Fund	Total Charge	Lowest Private Contractor's Bid	Saving To Property Owners	Sq. Yds. of Top
	Section No. 1—New	Improvements Completed—									
1	Clatsop Ave.	E. 17th St.—E. 19th St.	\$ 1,090.35	\$ 88.61	\$ 1,369.23	\$ 136.92	\$ 1,506.15	\$ 2,685.11	\$ 2,389.32	(Loss) \$295.79	2,146
2	S.S. of E. Morrison St.	Grand Ave.—E. 6th St.	638.35	**259.09		**25.91	**285.00				
	S.S. of E. Morrison St.	Grand Ave.—E. 6th St.			320.83	32.08	352.91	1,276.26	1,311.40	35.14	560
3	Intersection	E. Yamhill St. and E. 30th St.	Discontinued								
4	Pacific St.	Adams St.—First St.	868.49	**823.32		**82.33	**905.65				
	Pacific St.	Adams St.—First St.			857.04	85.70	942.74	2,716.88	2,967.86	250.98	1,606
4½	Pacific St.	E. 2nd St.—E. 3rd St.	134.33	*34.86	397.39	39.74	437.13	606.32	974.75	368.43	667
5	Birch St.	Spruce St.—Elliott St.	Remonstrated Out.								
6	Multnomah St.	E. 26th St.—E. 27th St.	222.57	*100.44	720.32	72.03	792.35	1,115.46	1,415.35	299.89	1,219
7	E. 15th St.	Killingsworth—Ainsworth	***								
8	Hyde St.	E. 9th St.—E. 10th St.	***								
9	Greenwich St.	Portland Blvd.—Dekum Ave.	***								
10	Albina Ave.	Ainsworth Ave.—Lombard St.	1,309.21	*869.79	4,630.34	463.03	5,093.37	7,272.37	9,674.04	2,401.67	7,050
11	Bryant St.	Willard—Greeley	***								
12	Ivanhoe	Buchanan—Alma	***								
13	Jarrett	E. 11th St.—E. 12th St.	***								
14	Baldwin	Minnesota—Mississippi	***								
15	E. 3rd St.	Weidler St.—Broadway	154.94	*53.29	477.45	47.75	525.20	733.43	946.04	212.61	800
16	E. 22nd St.	Prescott St.—Wygant St.	***								
17	Klickitat, et. al.	E. 47th—E. 56th—Mason St.	***								
18	Hood St.	Lane St.—Grover St.	14,219.53	*291.33	2,302.12	230.21	2,532.33	17,043.19	19,251.71	2,208.52	3,520
19	Oatmen Ave.	Willamette Blvd.—Saratoga St.	***								
20	Kellogg St.	Buchanan St.—Burr St.	Discontinued								
21	E. Madison St.	E. 24th St.—E. 26th St.	***								
22	Russett St.	Mississippi—Minnesota	***								
23	Concord	Portland Blvd.—Bryant	***								
24	Williams Ave., et. al.	Cleveland—Portland—Dekum	611.05	1,225.85	2,163.57	216.36	2,379.93	4,218.83	4,730.02	513.19	3,629
25	E. 20th St.	Yukon Ave.—Harold Ave.	1,657.49	1,314.93	2,503.84	250.39	2,754.23	5,726.65	6,288.24	561.59	3,776
26	E. 45th St.	Burnside St.—Laurelhurst	***								
27	Durham	Dekum—Holman	***								
28	Ainsworth Ave.	E. 17th St.—E. 33rd St.	8,435.95	**10,692.17		**1,069.22	**11,761.39				
	Ainsworth Ave.	E. 17th St.—E. 33rd St.			11,115.62	1,111.56	12,227.18	32,424.52	39,241.27	6,816.75	19,444
		Totals—New Improvements Completed.....	\$ 29,342.36	\$ 15,753.68	\$ 26,857.75	\$ 3,863.23	\$ 42,495.56	\$ 75,817.02	\$ 89,190.00	\$ 13,372.98	44,417

Legend—

- * Crushed Rock Embankment for Redress.
- ** Bituminous Base.
- *** Concrete Pavement authorized by Council after bids were opened.
- **** Bitulithic Warrenite authorized by Council after bids were opened.

MUNICIPAL PAVING PLANT

STATEMENT SHOWING (1) EARNINGS FOR GENERAL FUND FROM 10% SURCHARGE. (2) TRANSFERS TO GENERAL FUND IN CASH FROM PAVING PLANT EARNINGS. (3) RECAPITULATION.

1. Earnings for General Fund of City from 10% Surcharge on Asphaltic Concrete Top—		
Fiscal Year	1919.....	\$ 538.19
	1920.....	11,702.20
	1921.....	16,227.22
	1922.....	6,800.32
	1923.....	8,939.93
	1924.....	13,914.39
	1925.....	9,563.92
	1926.....	9,275.87
	1927.....	3,900.46
	1928.....	3,863.23
	Total earnings from 10% surcharge.....	<u>\$ 84,725.73</u>
Status of Collections of 10% Earnings—		
	Amount paid to General Fund in cash.....	\$ 78,978.86
	Amount due from new improvement warrants in hands of City Auditor.....	4,847.33
	Amount due from accounts receivable.....	899.54
	Total earnings	<u>\$ 84,725.73</u>
2. Transfers to General Fund in Cash from Paving Plant Earnings—		
Fiscal Year	1922.....	\$ 5,200.00
	1923.....	10,000.00
	1924.....	25,000.00
	1925.....	25,000.00
	1926.....	30,000.00
	1927.....	40,000.00
	1928.....	40,000.00
	Total paid in cash from paving plant earnings to General Fund by ordinances.....	<u>\$175,200.00</u>
3. Recapitulation—		
	Earnings for General Fund 10% surcharge...	\$ 84,725.73
	Cash transfers to General Fund from paving plant earnings	175,200.00
	Total amount of earnings and transfers to General Fund	<u>\$259,925.73</u>

COMPARISON OF PRIVATE CONTRACTORS' LOWEST BIDS AND MUNICIPAL PAVING PLANT COST, ON ALL MUNICIPAL PAVING PLANT PAVING CONTRACTS, 1920 TO 1928 INCLUSIVE.

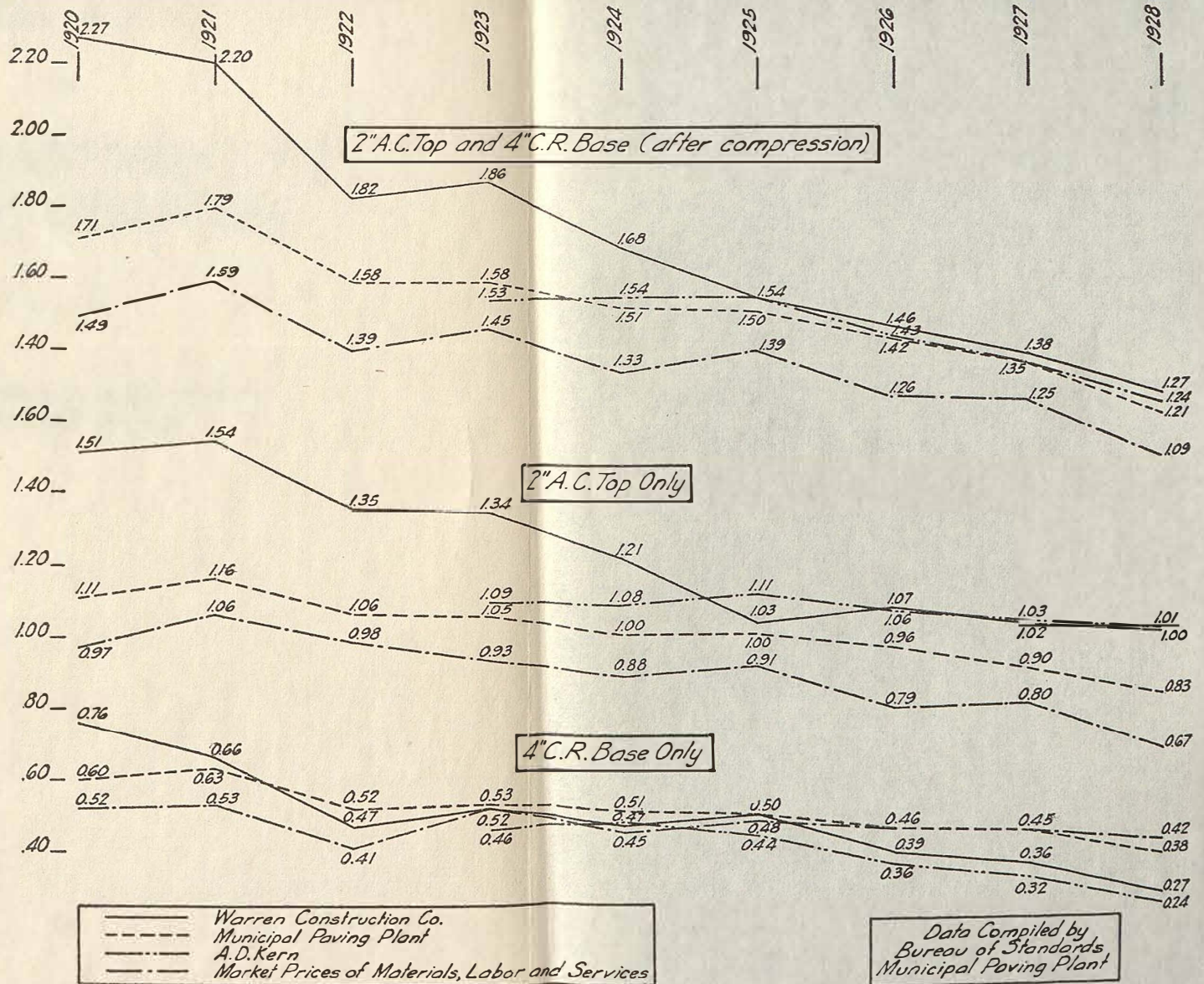
The schedule which follows shows the number of square yards of pavement laid by the Municipal Paving Plant each year for the nine years from 1920 to 1928 inclusive. It also shows the total amount of private contractors' lowest bids on the same work. The bids of private contractors were adjusted to the final estimate of the City Engineer for each contract. Therefore, the amounts shown as private contractors' lowest bids are the amounts which would have been received by the private contractors had the work been awarded to them, instead of to the low bidder, the Municipal Paving Plant. In the third column is shown the actual cost of the work, as performed by the Municipal Paving Plant, plus 10 per cent of the cost of top, a surcharge which is added to the Municipal Paving Plant cost and which is paid into the General Fund of the City. This extra 10 per cent charge is added only to Municipal Paving Plant costs, and not to private contractors' contracts.

The difference between the private contractors' lowest bids, as adjusted to the final estimate and the cost (plus 10 per cent of top), of the work as performed by the Municipal Paving Plant, is shown in column four. In the fifth and sixth columns are shown the average bids of private contractors, per square yard of Asphaltic Concrete top and base and the average unit cost of the same work by the Municipal Paving Plant. These unit figures are for top and base only, and do not include other miscellaneous paving jobs, such as redress, bituminous base, etc.

The chart on following page shows graphically the average bids per square yard of all contractors, including the Municipal Paving Plant for the years 1920 to 1928 inclusive, and also the market price of materials, labor and service plus overhead at 15 cents per square yard from year 1920 to 1925 inclusive and 12 cents per square yard for the years 1926, 1927 and 1928, also plus the surcharge, 10 per cent of cost of top.

Fiscal Year	Sq. Yds. Top, Base, Redress	Private Contractor's Lowest Bids	Municipal Paving Plant Cost	Saving to Property Owners	Asphalt Concrete 2-in. Top with 4-in. Crushed Rock Base	
					Contractor's Bid Per Sq. Yd.	Mun. Pav. P. Cost Per Sq. Yd.
1920	111,257.4	\$ 245,852.67	\$ 196,330.90	\$ 49,471.77	\$ 2.27	\$ 1.49
1921	151,236.0	435,476.89	340,144.29	95,332.60	2.20	1.59
1922	58,286.8	91,212.94	82,698.48	8,514.46	1.82	1.39
1923	84,281.0	159,258.68	141,320.97	17,937.71	1.86	1.45
1924	154,059.0	308,309.61	261,874.48	46,435.13	1.68	1.33
1925	112,962.0	195,344.07	173,941.47	21,402.60	1.53	1.39
1926	125,816.0	177,434.20	159,781.11	17,653.09	1.41	1.25
1927	45,828.0	107,772.02	92,984.61	14,787.41	1.41	1.24
1928	44,417.0	89,190.00	75,817.02	13,372.98	1.21	1.09
9 Years...	888,143.2	\$1,809,851.08	\$1,524,943.33	\$ 284,907.75		

City of Portland, Oregon
 DEPARTMENT OF PUBLIC WORKS
 Bureau of Standards Paving Division
HARD SURFACE IMPROVEMENT CONTRACTS
 Average Bids per Square Yard
 Fiscal Years 1920-1928



ANNUAL REPORT
OF
THE DEPARTMENT OF
PUBLIC UTILITIES

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

DEPARTMENT OF PUBLIC UTILITIES

JOHN M. MANN
COMMISSIONER

BUREAU OF WATER WORKS—

L. S. KAISER, Superintendent
BEN S. MORROW, Engineer

BUREAU OF HEALTH—

DR. JOHN G. ABELE, Health Officer

CITY LIGHTING—

H. A. GOODE, Assistant to Commissioner

BUREAU OF WEIGHTS AND MEASURES—

E. D. JONES, Sealer of Weights and Measures

BUREAU OF WATER WORKS

SUPERINTENDENT'S REPORT

ANNUAL REPORT FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

Portland, Oregon, January 23, 1929.

HON. JOHN M. MANN, COMMISSIONER OF PUBLIC UTILITIES:

Dear Sir: Herewith please find annual report of the Superintendent of the Bureau of Water Works for the fiscal year ending November 30, 1928:

BULL RUN CONDUITS

During the past year nothing of a serious nature has occurred to any of the three conduits. At Bull Run Hill just west of the town of Bull Run no movement of ground around Conduits No. 1 and 2 has been detected. This portion of these conduits is given daily inspection, readings of the amount of surface water through the drains being recorded daily. In the past year 24 leaks were found on the three steel conduits as follows:

Conduit No. 1, 14 pit leaks.
Conduit No. 2, 8 pit leaks.
Conduit No. 3, 2 rivet leaks.

During July, August and September the temperature of water varied from 51° to 60° and the use fluctuated from 40,300,000 gallons to 96,500,000 gallons per day.

Herewith statement showing the cash receipts and disbursements of the Bureau of Water Works, for the fiscal year ending November 30, 1928; also a detailed statement of the bonded indebtedness of the Bureau of Water Works at the end of the fiscal year.

In accordance with the Charter provisions and the itemized schedules prepared covering the setting aside of sufficient funds each year to retire the bonds issued by this department there was transferred from the Water Fund to the Water Bond Sinking Fund the sum of \$279,838.13.

The operating revenue, consisting of water sales receipts for 1928 shows an increase of \$55,491.52 over 1927. The miscellaneous receipts of \$315,623.58 were increased by \$200,000 on account of a loan from the General Fund, which loan will be repaid with money received from the sale of bonds. The operating expenses show a balance of \$576,563.73, being an increase over 1927 of \$21,865.20.

The surplus and special reserve account for the period ending November 30, 1928, was charged with \$35,393.70 and credited to annual income profit and loss account, leaving a balance of \$8,167,482.85 to the surplus account—the 1927 charge being \$66,488.86 against the surplus account.

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

	Receipts	Disbursements
Balance on hand December 1, 1927.....	\$1,280,679.02	
Received from sale of water.....	1,454,848.70	
Interest on current fund deposits.....	17,846.59	
Interest on Sinking Funds.....	129,950.99	
Accrued interest on bonds sold.....	1,333.33	
Sale of water bonds.....	961,690.00	
Sinking Fund bonds redeemed.....	88,759.00	
Sale of property.....	9,014.71	
Interest on property sale contracts.....	1,185.49	
Miscellaneous receipts.....	315,623.58	
	\$4,260,931.41	
Operating expenses.....		\$ 576,563.73
Interest on water bonds.....		719,105.00
Bonds redeemed.....		3,000.00
Construction expenses.....		1,910,259.90
Sinking Fund investments.....		305,949.03
Miscellaneous expenses.....		32,850.07
Balance on hand November 30, 1928.....		713,203.68
		\$4,260,931.41

FUNDS

Current Fund cash.....	\$280,144.20
Construction Fund cash.....	143,326.88
Bond Sinking Fund cash.....	289,732.60
	\$713,203.68

GENERAL BONDS OUTSTANDING NOVEMBER 30, 1928

Date of Issue	Due	Rate	Amount of Issue	Amount Outstanding
Jan. 2, 1911..	Jan. 2, 1936..	4	\$ 500,000	\$ 500,000
Mar. 1, 1911..	Mar. 1, 1936..	4	500,000	500,000
Oct. 1, 1911..	Oct. 1, 1936..	4	500,000	500,000
Mar. 1, 1912..	Mar. 1, 1937..	4	500,000	500,000
Nov. 1, 1912..	Nov. 1, 1937..	4	250,000	250,000
June 1, 1913..	June 1, 1938..	4	242,000	242,000
Aug. 1, 1913..	Aug. 1, 1938..	4	75,000	75,000
Sept. 1, 1913..	Sept. 1, 1938..	4	250,000	250,000
Nov. 1, 1913..	Nov. 1, 1938..	4	22,000	22,000
Dec. 1, 1913..	Dec. 1, 1938..	4	285,000	285,000
Feb. 2, 1914..	Feb. 2, 1939..	4	175,000	175,000
Dec. 1, 1914..	Feb. 1, 1939..	4	135,000	135,000
Mar. 1, 1915..	Mar. 1, 1940..	4	460,000	460,000
May 1, 1915..	Serial.....	5½	50,000	28,000
April 1, 1916..	April 1, 1941..	4	125,000	125,000
April 1, 1917..	April 1, 1942..	4	75,000	75,000
Feb. 1, 1919..	Feb. 1, 1944..	4	100,000	100,000
July 1, 1921..	July 1, 1946..	4	500,000	500,000
Dec. 1, 1921..	Dec. 1, 1946..	4	200,000	200,000
Mar. 1, 1922..	Mar. 1, 1497..	4	300,000	300,000
Mar. 1, 1923..	Serial.....	4	500,000	500,000
July 1, 1923..	Serial.....	4½	2,200,000	2,200,000
Oct. 1, 1923..	Serial.....	4	500,000	500,000
April 1, 1924..	Serial.....	4	1,000,000	1,000,000
May 1, 1924..	Serial.....	4	60,000	60,000
Sept. 1, 1924..	Serial.....	4	1,000,000	1,000,000
Nov. 1, 1924..	Serial.....	4	1,500,000	1,500,000
May 1, 1925..	Serial.....	4	1,000,000	1,000,000
Oct. 1, 1925..	Serial.....	4	500,000	500,000
Mar. 1, 1926..	Serial.....	4	2,000,000	2,000,000
April 1, 1927..	Serial.....	4	1,000,000	1,000,000
Oct. 1, 1927..	Serial.....	4	1,000,000	1,000,000
July 1, 1928..	Serial.....	4	1,000,000	1,000,000
Total.....				\$18,482,000

The activities of the Revenue Division of the Bureau of Water Works for the fiscal year ending November 30, 1928, were as follows:

	1928	1927	Increase
Billing for water.....	\$1,578,798.51	\$1,495,914.03	\$82,884.48
Revenue collected, gross receipts	\$1,575,527.31	\$1,492,240.97	\$83,286.34
Accounts receivable.....	\$34,230.14	\$30,958.95	\$3,271.19
Service Count—			
Revenue earnings	85,347	83,850	1,497
Non-revenue earning.....	639	620	19
Private Water Companies—			
Cubic feet water consumed...	78,683,100	70,266,200	8,416,900
Revenue received and earned.	\$116,895.31	\$109,263.52	\$7,631.79
Pay Stations—			
Number in operation.....	19	19	.....
Number of bills collected exclusive of No. 1 and No. 2 and City Treasurer.....	65,405	62,767	2,638
Revenue collected.....	\$156,167.60	\$144,748.91	\$11,418.69
Commissions earned.....	3,123.31	\$2,894.92	\$228.39
Commissions paid.....	2,792.09	\$2,600.93	191.16
Meters—			
Acquired	4	10,033	*10,029
Cost of meters.....	.....	\$70,675.00	*\$70,675.00
Number in stock.....	2,343	5,387	*3,044
Number in Service—			
Owned by City.....	81,676	80,115	1,561
Owned by consumers.....	2,999	2,883	116
Installed during 1928.....	2,994	.....	.....
Changed during 1928.....	4,170	.....	.....

* Decrease

REVENUE

Earnings—		
Consumers' accounts due and unpaid December 1, 1927.....		\$ 30,958.95
Total charges to accounts during 1928.....	\$1,583,753.61	
Less adjustments prior to payment.....	4,955.10	
Net charges to consumers' accounts.....		1,578,798.51
Total to account for.....		\$1,609,757.46
Revenue—		
Gross collections for fiscal year 1928—		
Meter rates	R1a	\$1,274,751.57
Ship water	R1c	2,692.85
Flat rates	R2a	47.01
Building	R2c	16,788.27
Municipal	R7	168.65
Public buildings	R8	40,806.37
Water companies	R9	116,666.11
Turn ons	R10a	3,886.00
Taps	RE207	55,509.94
Miscellaneous	A61c	64,210.54
Total		\$1,575,527.31
Accounts receivable November 30, 1928, as shown by consumers' ledgers.....	34,230.15	\$1,609,757.46
Gross collections for fiscal year 1928.....		1,575,527.31
Refunds from Water Fund Account—		
Meter deposits	3.40	
Accrued revenue account overcharge, duplicate payments, etc.....	2,830.69	2,834.09
Net collections for fiscal year 1928.....		\$1,572,693.22
Gross collections for fiscal year 1928.....		\$1,575,527.31
Gross collections for fiscal year 1927.....		1,492,240.97
Gross increase (5.58%).....		\$ 83,286.34
Net collections for fiscal year 1928.....		\$1,572,693.22
Net collections for fiscal year 1927.....		1,486,050.79
Net increase (5.83%).....		\$ 86,642.43

Increase in outstanding balances 10.5%.

The following is a summary of all active and inactive accounts:

	ACTIVE ACCOUNTS			VACANT ACCOUNTS			Grand Total
	Const. Prior to 1928	Const. 1928	Total	Const. Prior to 1928	Const. 1928	Total	
Dwellings.....	68,721	1,509	70,230	5,803	118	5,921	76,151
Dwellings and Stores.....	826	4	830	56	1	57	887
Apartments.....	859	25	884	14		14	898
Hotels, Lodging and Rooming Houses.....	591	1	592	33		33	625
Stores, Restaurants, etc.....	2,511	47	2,558	479	1	480	3,038
Churches.....	228	4	232	11		11	243
Schools.....	135	4	139				139
Office and Business Buildings.....	189	3	192	12	2	14	206
Manufactories.....	297	5	302	42		42	344
Laundries.....	36		36	7		7	43
Elevators.....	118		118	67		67	185
Filling Stations.....	271	26	297	9		9	306
Vacant Lots.....	24	2	26	38		38	64
Garages.....	503	15	518	77	2	79	597
Miscellaneous.....	1,354	40	1,394	226	1	227	1,621
Totals.....	76,663	1,685	78,348	6,874	125	6,999	85,347

Grand Total—Active..... 78,348
 Grand Total—Inactive..... 6,999
 Grand Total—Places Supplied of all Classifications..... 85,347

Approximately 305 services were lost during the past year on account of two or more services being combined or the service "killed".

METERS IN SERVICE NOVEMBER 30, 1928 (OWNED BY CITY)

Make	SIZE							No.
	5/8"	3/4"	1"	1 1/2"	2"	6"	8"	
Arctic.....	421							421
Badger.....	50							50
American Buffalo.....	95							95
Enare.....	1							1
Crown.....		1						1
Empire.....	32	2	715				1	750
Hersey.....	1,164	1	14					1,179
King.....	11							11
Keystone.....	361	5	1					367
Nash.....	49	15	11					75
Niagara.....	1							1
Trident.....	7,793	538	371	14	8			8,724
Watch Dog.....	61,336	4,226	203					65,765
Worthington.....	4,081	116	38					4,235
Hersey Det.....						1		1
Totals.....	75,395	4,904	1,353	14	8	1	1	81,676

TOTAL OF EACH SIZE METER IN SERVICE

	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	Total
City.....	75,395	4,904	1,353		14	8				1	1	81,676
Private.....	1,755	38	76	53	226	135		10	4	2	1	2,300
Private—Compound.....					29	238	1	167	121	121	22	699
Totals.....	77,150	4,942	1,429	53	269	381	1	177	125	124	24	84,675

INSPECTION

Number of turn ons, shut offs, rereads and miscellaneous orders, etc. 20,433
 Number of plumbing permits reported on..... 4,752
 Total number of bills delivered by inspectors..... 163,203
 Number of inspectors on duty..... 33
 Amount collected by inspectors for building purposes..... \$17,300.17

PERMITS

Permits for connections to new premises (installing services)..... 1,667
 Permits for connections to new premises (curb service in)..... 387
 Permits for change of service (installing service)..... 127
 Permits for change of service (curb service in)..... 148
 Permits for curb services only..... 19
 Permits for additional fixtures..... 2,195
 Permits for replacing of fixtures..... 289
 Permits for removal of fixtures..... 3
 Permits issued—Killing service at main..... 29
 Total number of permits issued..... 4,864
 Total number of services installed..... 1,803
 Number of plumbers from whom bonds were required..... 181

Respectfully yours,

L. S. KAISER, SUPERINTENDENT.

ENGINEER'S REPORT

ANNUAL REPORT OF ENGINEER OF WATER BUREAU FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

Portland, Oregon, December 1, 1928.

HON. JOHN M. MANN, COMMISSIONER OF PUBLIC UTILITIES, CITY OF PORTLAND, OREGON:

Dear Sir: Herewith I respectfully submit for your consideration a summary of construction operations and maintenance activities of the Bureau of Water Works as carried out under the direction of the engineering staff during the fiscal year ending November 30, 1928:

GENERAL

The major construction activity of the Department during the past year has been the Bull Run Storage Project. Although weather conditions during the fall of 1927 were most unfavorable for such work, the contractor on the dam was able to meet his contract requirement of partial storage for the summer demand.

This past season has been most favorable for construction work and both the dam and storage basin clearing will be finished within a short time.

The completion of this project will insure the City a sufficient supply to meet the demand for many years hence.

During the fiscal year 1928 a total of 17.86 miles of cast iron (4 inch and over) and 6.6 miles of galvanized pipe (all 2 inch) was added to the distribution system. Also, there were removed or abandoned 3.47 miles of mains 4-inch and over in diameter and 11.53 miles under 4-inch diameter, mainly 2-inch galvanized. There is thus a net increase during the year of 14.39 miles of cast iron mains, and a net decrease of 4.93 miles of galvanized mains.

In addition to the above there were installed 0.90 miles of 6-inch and 2.08 miles of 8-inch cast iron mains within the City limits for private parties, eight different jobs being involved. These mains form an integral part of the distribution system being operated and maintained by our forces. It is anticipated that ownership will eventually pass to the City through purchase when conditions so warrant.

There is at present a total mileage of 1121.10 miles of all sizes of water mains now in use and owned by the City. In addition there are 23.65 miles of cast iron, 0.103 miles of 6-inch wood and 24.929 miles of galvanized mains owned privately but maintained and operated by the Water Bureau, making a grand total of 1169.69 miles of mains in use at the close of the fiscal year.

SECONDARY DISTRIBUTION MAINS FROM RESERVOIRS

In line with the policy of the Department in having duplicate supply lines out of each distribution reservoir, a new 8-inch main from the Portland Heights tank was completed on June 7, and a 24-inch main out of Reservoir No. 2 will be completed in December, or early January, 1929.

All of the East Side distribution areas, with the exception of "Mt. Tabor pump" and "High Gravity, South of Division Street" now have two or more major supply lines and the latter, supplied by a 24-inch main, can be augmented with a 12-inch and 8-inch supply in case of necessity.

For the West Side high and low areas, a secondary supply line should be installed. At present the low can always be supplied through the high, and the high-low supplied direct from the Mt. Tabor supply line.

EXTENSIONS PROPOSED FOR 1929

Aside from the nominal quantity of 6-inch and 8-inch mains that will be installed during the coming year, materials have been purchased and provisions made for the installation of the following large mains (12-inch and over):

West Side—

Macadam Road, Dakota Street to Lowell Avenue, 2980 feet of 20-inch.

Morrison Street, Front to Tenth Streets, 2613 feet of 16-inch.

Sixth Street, Salmon to Stark Streets, 1550 feet of 16-inch.

Twenty-fourth Street, Johnson to Lovejoy Street; Lovejoy Street, Twenty-fourth to Twenty-fifth Streets; Twenty-fifth Street, Lovejoy to Pettygrove Streets; Pettygrove Street, Twenty-fifth to Twenty-sixth Streets, 2560 feet of 12-inch.

East Side—

East Eighty-second Street, Fremont to Brazee Streets, 3200 feet 12-inch. This main is highly essential at this time to augment the supply for the district bounded by Fremont, Halsey, East Seventy-second and East 102nd Streets, now having only a single supply line. A shut-down in this area frequently causes a large number of services to be without water, which condition will be practically eliminated with the installation of this main.

Reservoir No. 1 to East Seventy-second Street; East Seventy-second Street, 73 feet south of Hall to Harrison Streets; East Harrison Street, Seventy-second to Seventy-fourth Streets; East Seventy-fourth Street, Harrison to Clay; East Clay Street, Seventy-fourth to Seventy-sixth Streets; East Seventy-sixth Street, Clay to Yamhill Streets, 5160 feet of 12-inch.

This main is planned as a replacement of the old 12-inch wooden main installed in the fall of 1907, which has badly deteriorated and requires frequent repairs.

East Seventy-second Street, Fifty-fifth Avenue to Sixty-fifth Avenue, 2590 feet of 20-inch.

Holgate Street, East Forty-first Street to East Fifty-second Street, 2705 feet of 12-inch.

East Salmon Street, East Twenty-eighth to East Thirtieth Streets; East Twenty-eighth Street, Salmon to Hawthorne; Hawthorne Avenue, East Twenty-third to East Twenty-ninth Streets, 2786 feet of 12-inch.

**PROPOSED PIPE LINES ON ROSS ISLAND BRIDGE FOR THE
WEST SIDE SUPPLY**

It is the hope of the Department that arrangements can be made during the coming year for the installation of two 24-inch pipe lines on the Ross Island Bridge for the supply of the West Side. The bridge is of sufficient strength to carry the proposed mains.

Such an installation would connect the 32-inch supply line at East Tenth and Division Streets with the 32-inch line at Water and Mill Streets. The installation of these mains would insure a continuity of supply for the West Side which is at present supplied through two submerged lines under the Willamette River.

ADDITIONAL AREA ANNEXED TO THE CITY

At the last election, held November 6 the territory bounded by East Forty-second Street, East Fifty-second Street, Fremont and Prescott Streets, was officially voted into the City, thereby adding one-quarter of a square mile to the area thereof.

There are 258 services in this area supplied by five water companies, as follows:

	No. of Services
Beaumont Annex Water Company.....	125
Calman Water Company.....	44
Prescott Mutual Water Company.....	64
King-Martin Water Company (partial).....	15
Englewood Park Water Company (partial).....	10
	258

RESERVOIRS

During the past year, Reservoirs 1, 2, 3, 4, 5 and 6 were drained and thoroughly cleaned. Also all cracks and seams were given a thorough coating of waterproof "Black Cat" paint over a new inlay of muslin.

With the exception of Reservoir No. 2, all of the reservoirs were found to be in good condition, showing little apparent leakage.

Reservoir No. 2 is in need of repairs, the easterly half of the same having, through years of gradual settlement, broken down so that it will soon be necessary for a reconstruction program of considerable extent.

On several occasions during the winter and early spring months, this reservoir was drained and repairs made.

The following reservoirs, standpipes and tanks are in use in connection with the distribution system:

		Eleva- tion	Gallons Capacity	When Built
Reservoirs—				
Reservoir No. 1, Mt. Tabor.....	Concrete.....	411.6	12,000,000	1894
Reservoir No. 2, Mt. Tabor.....	Brick.....	229.2	20,500,000	1894
Reservoir No. 3, City Park.....	Concrete.....	299.5	16,400,000	1894
Reservoir No. 4, City Park.....	Concrete.....	229.5	17,600,000	1894
Reservoir No. 5, Mt. Tabor.....	Concrete.....	411.6	49,000,000	1911
Reservoir No. 6, Mt. Tabor.....	Concrete.....	305.0	75,000,000	1911
Standpipes—				
Vernon Standpipe.....	Steel.....	362.39	1,000,000	1921
Burlingame Standpipe.....	Steel.....	635.00	114,800	1912
Council Crest Standpipe.....	Steel.....	1,096.50	60,000	1909
St. Johns Standpipe.....	Steel.....	246.75	360,000	1921
Tanks—				
Kings Heights.....	Concrete.....	865.00	200,000	1911
Mt. Tabor.....	Concrete.....	590.00	200,000	1911
Portland Heights.....	Concrete.....	865.00	600,000	1908
Willamette Heights.....	Concrete.....	445.62	60,000	1907
South Portland.....	Concrete.....	475.00	60,000	1907
Upper Linnton.....	Concrete.....	538.90	130,000	1913
Lower Linnton.....	Concrete.....	192.90	130,000	1913
Upper Whitwood.....	Concrete.....	566.70	130,000	1913
Lower Whitwood.....	Concrete.....	192.10	130,000	1913
*Upper Willbridge.....	Concrete.....	768.30	65,000	1913
*Lower Willbridge.....	Concrete.....	189.90	130,000	1913
**Willallitan Park.....	Concrete.....	1,065.60	130,000	.....

* Not in use.

** Never in use.

PORTLAND HOMESTEAD STANDPIPE

On September 19 a contract was awarded to the Steel Tank & Pipe Company, of Oregon, for the construction of a 285,000-gallon tank on Marquam Hill. This tank will be completed in January, 1929, and will provide storage for the various hospitals, medical school and other consumers in that locality.

An additional storage unit is still needed on Portland Heights. An it is hoped that a reinforced concrete tank of 500,000 gallons capacity, together with a new force main will be constructed during the coming year.

DRAINAGE TUNNELS — SLIDING GROUND

The average movement of the sliding ground for the year 1928 was 0.088 of a foot, being 0.012 less than the average for the previous year.

Due to earth pressure, breaking of the timbering in the tunnels was so extensive that it was decided to backfill with river gravel, first placing concrete culvert pipe on the bottom of the tunnels. This work was started in February, 1928, and by the end of the fiscal year, 1880 cubic yards of gravel had been used to backfill 1900 feet of tunnel and 200 feet of shaft.

**PUMPING STATIONS
COUNCIL CREST UNIT**

City Park Pump No. 5 (Fairbanks-Morse centrifugal) was moved to this station during the past summer, replacing the Gould Triplex pump which was installed in 1909. With this change the maximum daily pumpage capacity to Council Crest was increased from 720,000 to 1,500,000 gallons.

CITY PARK UNIT

Pump No. 5 (Fairbanks-Morse centrifugal) was replaced in early summer with a 1,000,000-gallon capacity Allis-Chalmers centrifugal pump. The old pump which is replaced was moved to the Council Crest unit.

The following is a list of the pumping stations and equipment operated by the Department:

	Style of Motor	Elevation	Elevation Supplied	Gallons per Day Capacity
City Park No. 1.....	Hydraulic	236	445	1,000,000
City Park No. 2.....	Hydraulic	236	865	500,000
City Park No. 3.....	Electric	235	865	500,000
City Park No. 4.....	Electric	235	445	1,000,000
City Park No. 5.....	Electric	235	865	1,000,000
City Park No. 6.....	Electric	238	865	1,200,000
Greenway No. 1.....	Elec. (Auto.)	865	1,096.5	1,000,000
Greenway No. 2.....	Elec. (Auto.)	865	1,096.5	500,000
Fulton No. 1.....	Elec. (Auto.)	230	635	650,000
Fulton No. 2.....	Elec. (Auto.)	230	635	500,000
Fulton No. 3.....	Elec. (Auto.)	230	635	1,600,000
Mt. Tabor No. 1.....	Hydraulic	230	590	108,000
Mt. Tabor No. 2.....	Hydraulic	230	590	108,000
Mt. Tabor No. 3.....	Electric	230	590	500,000
Linton No. 1.....	Elec. (Auto.)	190	537	108,000
Whitwood No. 1.....	Elec. (Auto.)	190	565	108,000

On March 1, 1923, a "Simplex" Pitometer with recorder was installed on the 24-inch distribution main out of the Vernon standpipe; and on July 10, 1927, a second "Simplex" Pitometer and recorder was installed at Vernon, on the new 30-inch distribution main.

REGULATING VALVES

Due to the contour of the City it is necessary to regulate the pressures in certain of the distribution areas in order to avoid excessive pressure. In all 38 pressure-reducing valves, varying in size from 2-inch to 24-inch, are in use in the system.

These regulators are inspected at least once a week and are kept in repair and adjustment.

AUTOMATIC PRESSURE RECORDING GAUGES

Bristol recording pressure gauges are maintained at various points in the system.

The records from these gauges have been of valuable assistance in determining low pressure areas and general pressure conditions of the several systems throughout the city. These records also indicate

the exact time of serious breaks and shut-downs, as well as recording the time when the service was restored. The charts are filed as part of the office records.

CHARACTER OF WATER

In the report for the year 1914 reference was made to the analysis of Bull Run water and the report thereon forming a part of Water Supply Paper No. 363, issued by the U. S. Geological Survey in the year 1914. Extracts from this paper were given in the report for last year and are repeated herein in part as follows:

"Bull Run River flows from a small lake formed by a morainal dam lying across an upland valley near Mt. Hood. The lake discharges through its surface outlet only at high stages, the usual outflow being by seepage through the boulder of the moraine. The outflowing stream flows northwestward a few miles, then southwestward to its junction with the Sandy River. A long, low rise separates this basin from the Mt. Hood glaciers, and no glacial water reaches the river. The basin comprises 222 square miles, of which the greater part is heavily forested.

"The mean annual precipitation at Bull Run postoffice which is 647 feet above sea level and above which there are 96 square miles of drainage basin, is 76 inches. Much of this falls as snow in winter, but storage in the lake tends to equalize the run-off somewhat and to increase the volume of the low water flow.

"The annual run-off from the drainage basin probably averages more than 100 inches in depth over the area.

"The quality of the water of this river is important because the City of Portland diverts water from it near the town of Bull Run through two lines of pipe for a municipal supply. The entire drainage basin above the intake of the pipe lines is included in the Bull Run Forest Reserve, and trespass is prohibited by efficient policing. Because of the remoteness of the upper Bull Run basin, and the ideal sanitary conditions and effective patrol in it, Portland's water supply may be considered primarily pure and above criticism."

**ANALYSIS OF BULL RUN WATER, MAY 3, 1918
(By Dr. E. C. Callaway, Chemist, Bureau of Health)**

Two samples were collected for analysis as follows:

May 3rd, Sample No. 1, from Bull Run River at the Headworks; 6 gallon sample.

May 4th, Sample No. 2, from faucet at the City Hall; 6 gallon sample.

This report covers the careful analysis of two representative samples. These analyses have been checked to the extent that we may safely conclude they are approximately close to a mean of any series of similar samples that might be collected during the spring, and not far from a mean of any series of samples that might be collected during the year.

In reporting the composition of solids dissolved in surface water, it is the practice of modern chemists to report only facts and make no inference. For instance, lime is reported as Calcium, and not as

Calcium Sulphate or Calcium Carbonate. It is only an inference to say that lime exists as a sulphate, carbonate, etc., since we do not actually determine that as a fact.

Table I gives the report of the complete mineral analysis of the water. The results are expressed in parts per million in all of the tables.

Table II gives the industrial and engineering interpretation of the analysis of Bull Run water (according to Stabler) as it is delivered in the City, and makes a comparison with Columbia River water sampled at Cascade Locks in 1912.

Table III compares these analyses with the mean of a series of analyses of Oregon streams made in 1911 and 1912 by the U. S. Geological Survey.

Table IV gives a sanitary analysis of Bull Run water and an interpretation of the same.

Bull Run water will perhaps be found to be the cheapest water for all factory purposes in the long run, and especially for boiler use. When the life of boilers and machinery, the cost of softening the water and other factors are considered Bull Run water may be found to be more economical than well water or river water.

For instance, for laundry use Bull Run water will require less than one-third the amount of soap that would be required for Columbia River water (Table II-I). Bull Run water requires practically no softening for any industrial use, and foams very little in the boiler. It is non-corrosive to metal and produces a very slight soft scale in boiler tubes. If tubes are cleaned often it ought not to be necessary to use a boiler compound.

The analyses given in Table III are set forth in the order of purity from first to last. Bull Run is found by the U. S. Geological Survey to be the purest stream of water in Oregon, and as far as I have been able to find in the records of analyses, it is the purest stream of water in the United States large enough to be utilized by a large city as a water supply.

This table indicates just how free from impurities it is compared with other streams of Oregon. If water from the Owyhee or Crooked Rivers, with its excess of alkali carbonates and suspended matter, should be turned into the Bull Run pipes there would be no end of loud complaints from the water consumers of Portland.

TABLE I

	Parts Per Million	
	Sample No. 1 from Bull Run River at the Headworks	Sample No. 2 from Faucet at the City Hall Chemical Laboratory
Suspended Matter (floating moss, etc.)	2.0	1.1
Colloidal Matter (sand, grit, dirt, etc.)	5.1	4.8
Silica (Si O ₃)	0.02	0.05
Iron Oxide (Red iron rust) Fe ₂ O ₃		
Aluminum Oxide (Clay)		
Dissolved Gas—		
Carbon Dioxide (CO ₂)	2.0	2.0
Total Dissolved Solids	26.2	25.0
Calcium (Ca)	2.5	2.8
Magnesium (Mg)—Metals	0.12	0.15
Sodium (Na)	3.7	3.1
Potassium (K)	0.9	0.7
Carbonates (CO ₃)	0.0	0.0
Bicarbonates (HCO ₃)	11.7	10.2
Sulphates (SO ₄)	3.2	4.2
Chlorines (Cl)	2.0	1.7
Nitrates (NO ₃)	0.31	0.41

There is a remarkably slight difference in the composition of the water in Bull Run River and the water delivered to the consumer in the City. There is a slight reduction in some ingredients in transit, due perhaps to sedimentation and precipitation in the reservoir.

As a whole the analyses show that Bull Run water is remarkably free from mineral impurities.

TABLE II
INDUSTRIAL INTERPRETATION OF ANALYSIS COMPARING BULL
RUN WATER WITH COLUMBIA RIVER WATER

	Sample Bull Run Water from Faucet at City Hall	Columbia River Water at Cascade Locks
1. Soap Costs. (Cost in cents. 1916 prices for soap, to produce lather with 1,000 gallons).....	17.0 cts.	67.0 cts.
2. Softening Water— No. lbs. 90% lime needed for 1,000 gals..... No. lbs. 95% soda ash needed for 1,000 gals....	0.071 None	0.441 None
3. Foaming Coefficient (F=2.7 Na + 2.K) from to Sodium and Potassium.....	9.7	33.8
4. Coefficient of corrosion in boiler tubes, etc., due to Aluminum, Magnesium and Iron content— not in form of Carbonates—C=.....	-0.155	-0.815
5. Coefficient of corrosion, .0503 Ca=.....	-0.0146 (Non-corrosive)	+0.04 (Semi-corrosive)
6. Pounds of Scale formed on boiler tubes from 1,000 gals. of water.....	+0.121	+0.922
7. Pounds of Hard Scale formed on boiler tubes from 1,000 gals. of water.....	None	0.152
8. Coefficient of hardness.....	Not hard	0.15

TABLE III

Analysis of Bull Run Water Compared with other Streams of Oregon. Analyses U. S. Geological Survey, 1911-12.	Bull Run— 1918	Siletz River	Sandy River	McKenzie River	Clackamas River	Willamette River	Deschutes River at Bend	Columbia River at Cascade Locks	John Day River at Dayville	Snake River	Owyhee River	Crooked River
	Suspended matter.....	2.0	5.6	39.0	4.0	2.7	16.0	2.5	40.0	241.0	104.0	165.0	122.0
Colloidal matter.....												
Silica (SiO ₂).....	5.1	9.4	16.0	17.0	19.0	15.0	24.0	14.0	33.0	26.0	31.0	34.0
Iron and Aluminum Oxide.....	.03	.03	.07	.06	.05	.1	.04	.06	.06	.04	.12	.09
Total dissolved solids.....	26.2	42.0	49.0	50.0	50.0	51.0	66.0	97.0	166.0	230.0	230.0	240.0
Calcium (Ca).....	2.5	4.5	4.6	4.4	5.3	5.3	5.1	17.0	22.0	33.0	26.0	26.0
Magnesium (Mg).....	.12	.9	1.3	1.1	1.4	1.4	1.6	3.9	11.0	9.6	6.4	11.0
Sodium (Na).....	3.7	5.5	4.2	4.1	4.2	3.8	6.7	7.5	13.0	22.0	35.0	38.0
Potassium (K).....	.9	.7	.8	1.2	.8	.8	1.6	1.8	2.1	3.5	4.6	5.2
Carbonates (CO ₂).....	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Bicarbonates (HCO ₃).....	11.7	17.0	18.0	24.0	26.0	23.0	34.0	69.0	143.0	130.0	139.0	199.0
Sulphates (SO ₄).....	3.2	4.6	7.2	3.8	3.9	3.7	3.6	12.0	8.9	3.5	3.5	17.0
Chlorine (Cl).....	2.0	4.2	1.7	1.3	1.7	1.9	1.2	3.2	2.2	17.0	13.0	11.0
Nitrates (NO ₃).....	.13	1.6	.23	.18	.23	.36	.22	.48	.76	.6	.74	.32

TABLE IV

**SANITARY ANALYSIS OF BULL RUN WATER COMPARED WITH
WILLAMETTE RIVER WATER TAKEN NEAR PORTLAND
FLOURING MILLS BELOW CITY**

	Bull Run	Willamette Below City
Reaction	Faintly alkaline	Alkaline
Free and saline ammonia.....	0.01	0.20
Albuminoid ammonia	0.02	0.12
Oxygen to oxidize organic matter.....	0.08	1.00
Total solid matter	36.00	283.00
Total hardness	10.00	26.00
Chlorine	2.00	45.00
Nitrogen as nitrates and nitrites.....	3.00	7.50

From a sanitary standpoint the bacteriological and biological character of the water is a better index to its purity than a chemical analysis. From the analyses of Table IV by the method of chemical analyses used a few years ago and still in use in some places, Bull Run water would be pronounced a perfect water for drinking purposes; whereas, Willamette River water would be considered very dangerous indeed.

By E. C. CALLAWAY, Chemist, Bureau of Health.

I also wish to again emphasize the fact that Bull Run water is not glacial and that the water is not the cause of any of the ills sometimes attributed to something in the water, or the lack of some mineral element. As a health resort Portland should stand above all others insofar as its water supply is concerned.

The watershed in the Bull Run Reserve is without doubt the best to be had and ample protection from fire and pollution should be carefully continued.

BULL RUN CONDUITS

The report of Mr. T. J. Maupin, inspector of pipe lines, shows that during the year 13 pit holes were plugged and one lead joint in blow-off connection recalked on Conduit No. 1.

Six pit holes were plugged, one rivet calked and one manhole tightened on Conduit No. 2. Two leaking rivets, both at the same joint, were calked on Conduit No. 3.

BULL RUN RESERVE

Some repairs were made to the dike at Bull Run Lake, due to the damage caused by the winter storms. A log boom was reconstructed in front of the dike to prevent further damage. A spillway was constructed around the end of the dike.

BULL RUN RESERVE STORAGE

As previously noted, the past season was most favorable for construction work in the Reserve. The contractors on the storage project

have made excellent progress and the work should be completed within two months.

This project is located five miles above the Headworks on the Bull Run River. The dam is a concrete gravity section, 200 feet in height and curved in plan to a 600-foot radius. It contains 220,000 cubic yards of concrete. The overflow section, 120 feet in width, is located over the middle of the dam and the overflow is carried over a reinforced concrete apron to a point 150 feet down stream from the toe of the dam, where inclined dentals will throw the discharge a considerable distance beyond the end of the apron.

Water supply for the system can be taken from the reservoir at any desired depth through sluice gates in a gate tower, and the discharge is controlled by three 48-36-inch needle valves having a combined capacity of 500 cubic feet per second.

The storage capacity of the reservoir is 31,000 acre feet, which, added to the minimum flow of the Bull Run River, is sufficient to supply a million people, or 2½ times the present population on our lines.

Bent Brothers, Inc., of Los Angeles, are the contractors for the dam. Cement was furnished by the Santa Cruz Portland Cement Company.

The contract for the clearing of the 440 acres in the reservoir area was awarded to Heller Brothers of this City. This work consisted of the removal of all timber, brush, logs, etc., although it did not include removal of stumps, which are cut low to the ground.

The wagon road from the Headworks road to the site was constructed by the J. F. Shea Company of Portland.

The total cost of the project will be approximately \$3,000,000.

Two forest fires have occurred at the site during construction operations. Fortunately neither of them caused very serious damage to timber, although the delay and expense occasioned in putting out the fires was rather serious.

POPULATION SUPPLIED

At the close of the fiscal year (November 30) there were a total of 85,347 services connected to the water mains of the City, 1616 of which are beyond the City Limits. Using 4.38 as a multiplier in each case would give the total population supplied as 373,820, of which 7078 live outside the City and 366,742 within.

In addition to this there are 12,086 services supplying 52,937 people in the 59 "Water Districts" and water companies purchasing Bull Run water from the City.

The total population supplied as of November 30 is estimated to be 426,757, an increase of 19,321 during the past year.

WATER CONSUMPTION

Total number of places supplied, as per Water Bureau ledgers (not number of services).....	85,347
Number actually in use, November 30, 1928.....	78,348
Vacancies and shut-offs.....	6,999
Meters installed during the year (all sizes).....	2,994
Average number of meters in use, past year.....	78,116
*Total consumption through metered services (gallons).....	9,458,236,400
*Total gallons per day through metered services.....	25,842,174

*Does not include water sold to outside companies and Water Districts, for which see separate table.

The rather extensive program carried out by the Department during the past several years of the reinforcement of the major supply lines of the distribution system has shown a satisfactory result during the past season. Complaints as to low pressures under peak rate demand were negligible. On several occasions some trouble was caused by the discoloration of the water due to the sand and gravel digging operations of the contractors on the Bull Run River. Everything was done by the contractors to reduce this condition to a minimum and the water users in the main realized the situation and complaints were not as numerous as was anticipated.

Respectfully submitted,

BEN S. MORROW, CHIEF ENGINEER.

WATER CONSUMPTION DATA (DOES NOT INCLUDE WATER SOLD TO OUTSIDE COMPANIES OR DISTRICTS), NOVEMBER 30, 1927, TO NOVEMBER 30, 1928

Districts	Average Number Services in Use	Total Consumption per Day in Gallons	Population Supplied*	Average Gallons per Day per Capita Through Services	Total Average Consumption per Day in Gallons as Shown by Dist. Meters	Average Gallons per Day per Capita for All Purposes
West Side—						
High Gravity.....	3,630	1,800,433	15,899	117.02	2,171,861	136,605
Low Gravity.....	6,496	6,782,134	28,452	238.30	† 8,043,022	314,319
Intermediate S. Jefferson.....	482	86,412	2,111	40.93	† 124,458	58,956
Intermediate N. Jefferson.....	421	235,021	1,844	127.45	† 372,311	201,904
Council Crest Pump.....	171	41,718	749	55.69	† 78,270	104,499
Portland Heights Pump.....	763	295,789	3,342	88.50	† 376,427	112,635
Burlingame Standpipe.....	283	47,821	1,240	38.56	† 62,632	50,509
Linnton Pumps.....	97	16,838	425	39.61	† 31,142	73,275
Kings Heights Pump.....	255	85,405	1,117	76.45	85,413	76,466

* 4.38 used as Multiplier.

† Linnton, Burlington, Burlingame and Oswego not included in West Side Low Gravity.

‡ Add Council Crest to Portland Heights for total Portland Heights Pump.

Total Services November 30, 1928—85,347.

Average number Services—84,594 X 4.38 = 370,522. Total average population supplied November 30, 1928 exclusive of outside Districts and Companies but including 7,078 outside City Lines owned by City.

WATER CONSUMPTION DATA (DOES NOT INCLUDE WATER SOLD TO OUTSIDE COMPANIES OR DISTRICTS).
NOVEMBER 30, 1927, TO NOVEMBER 30, 1928—Continued

	1927	1928	1927	1928	1927	1928	1927	1928	1927	1928
East Side—										
Intermediate Gravity	18,954	4,846,144	88,019	88,377	4,463,237	53,76				
Low Gravity	9,920	3,640,618	45,450	53,78	4,463,237	101,35				
Vernon Standpipe	20,608	3,901,482	90,263	43,22	5,285,104	91,80				
High Gravity N. Division	11,867	2,526,974	51,977	48,71	9,775,104	53,39				
High Gravity S. Division	9,263	1,387,693	40,572	34,20	2,078,841	51,24				
Mt. Tabor Pump	336	87,692	1,472	39,57	180,562	122,66				
Totals	83,546	25,842,174	365,932	52,44	34,433,133	94,10				
Excluding West and East Low Gravity	16,416	10,422,752	71,902	52,44	13,346,871	71,71				
Town of Resham	67,130	15,419,422	294,030		21,086,262					
Powell Valley Water District No. 2		93,868								
P. E. F. Co. (Bull Run) Kelly's Butte, Etc		16,317								

	Consumption in Gallons	
	Daily	Yearly
City of Portland as shown by District Meters	35,914,849	13,144,835,190
Gresham, Powell Valley Water District No. 2, P. E. F. Co. (Bull Run)	127,174	46,545,796
Kelly's Butte, Etc	36,042,025	13,191,380,986
Totals		

BULL RUN CONDUITS

Conduit No. 1—Headworks to Mt. Tabor	Miles	Total Miles
42-inch Steel, Riveted	10.022	24.299
35-inch Steel, Riveted	7.772	
33-inch Steel, Riveted	6.505	
Conduit No. 2—Headworks to Mt. Tabor	Miles	Total Miles
52-inch Steel, Lock Bar	10.018	24.760
44-inch Steel, Lock Bar	14.742	
Conduit No. 3—Headworks to Mt. Tabor	Miles	Total Miles
58-inch Steel, Lock Bar	9.954	25.099
50-inch Steel, Lock Bar	15.055	
Mt. Tabor to City Park	Miles	Total Miles
24-inch Steel, Submerged	0.387	0.774
30-inch Steel, Submerged	0.387	
32-inch Cast Iron, Shore Connections	6.020	6.457
30-inch Cast Iron, Shore Connections	0.437	
Grand Total		81.299

PIPE EXTENSIONS COMPLETED DURING THE FISCAL YEAR
ENDING NOVEMBER 30, 1928

(By Department Forces)

Size Inches	Cast Iron	Wood	Steel Galv.	Steel Black	Total Miles
16	1.414				1.414
12	1.446				1.446
8	13.102				13.102
6	1.754				1.754
4	0.169				0.169
Total—4" and over	17.885				17.885
2			6.605		6.605
Total—Under 4"			6.605		6.605
Total—All Sizes	17.885		6.605		24.490

PIPE ACQUIRED BY PURCHASE DURING THE FISCAL YEAR
ENDING NOVEMBER 30, 1928

Street and Limits	Size Inches	Kind	Length Feet
East 31st Street, Knott Street to 330 ft. South	8	C. I.	327

SUMMARY

Size Inches	Cast Iron	Wood	Steel Galv.	Steel Black	Total Miles
8.....	0.062				0.062

PIPE EXTENSIONS LAID OR ACQUIRED DURING THE FISCAL YEAR ENDING NOVEMBER 30, 1928

Size Inches	Cast Iron	Wood	Steel Galv.	Steel Black	Total Miles
16.....	1.414				1.414
12.....	1.446				1.446
8.....	13.164				13.164
6.....	1.754				1.754
4.....	0.169				0.169
Total—4" and over.....	17.947				17.947
2.....			6.605		6.605
Total—Under 4".....			6.605		6.605
Total—All Sizes.....	17.947		6.605		24.552

PIPE REMOVED OR ABANDONED DURING THE FISCAL YEAR ENDING NOVEMBER 30, 1928

Size Inches	Cast Iron	Wood	Galv. Steel	Steel Black	Total Miles
12.....		0.008			0.008
8.....	0.108	0.376			0.484
6.....	0.367	0.323		0.071	0.761
4.....	1.087	0.311		0.207	1.605
3.....		0.254		0.119	0.373
2½.....			0.240		0.240
2.....		0.398	8.316		8.714
1½.....			1.254		1.254
1¼.....			0.285		0.285
1.....			0.772		0.772
¾.....			0.393		0.393
½.....			0.112		0.112
Totals.....	1.562	1.670	11.372	0.397	15.001

SUMMARY OF WATER MAINS IN USE NOVEMBER 30, 1928

OWNED BY CITY

Size Inches	Cast Iron	Wood	Steel Galv.	Steel Black	Total Miles
48.....				0.231	0.231
40.....				4.224	4.224
36.....				0.033	0.033
32.....	5.640				5.640
30.....	10.778			4.358	15.136
24.....	15.071	1.039		4.896	21.006
20.....	12.027			0.422	12.449
18.....	0.514			0.917	1.431
16.....	35.185			0.004	35.189
14.....	8.209				8.209
12.....	78.644	1.281		1.922	81.857
10.....	16.810			1.970	18.780
8.....	397.035			0.233	397.268
6.....	163.991			0.959	164.950
4.....	46.789	0.464		0.558	47.811
Total—4" and Over.....	790.693	2.784		20.737	814.214
3½.....			0.111		0.111
3.....		0.754	1.675		2.429
2½.....			1.954		1.954
2.....		3.183	156.967		160.150
1½.....			43.149		43.149
1¼.....			15.152		15.152
1.....			53.703		53.703
¾.....			18.140		18.140
½.....			0.032		0.032
¼.....			12.068		12.068
Total—Under 4".....		3.937	302.951		306.888
Total—All Sizes.....	790.693	6.721	302.951	20.737	1,121.102

SUMMARY OF WATER MAINS IN USE NOVEMBER 30, 1928 NOT OWNED BY CITY

Sizes Inches	Cast Iron	Wood	Steel Galv.	Steel Black	Total Miles
12.....	0.023				0.023
8.....	8.296				8.296
6.....	13.024	0.103			13.127
4.....	2.304				2.304
Total 4" and over.....	23.647	0.103			23.750
3.....		0.513	0.335	0.522	1.370
2.....			15.050		15.050
1½.....			2.528		2.528
1¼.....			1.926		1.926
1.....			3.381		3.381
¾.....			0.646		0.646
½.....			0.028		0.028
Total under 4".....		0.513	23.894	0.522	24.929
Total all sizes.....	23.647	0.616	23.894	0.522	48.679

STATISTICS RELATING TO DISTRIBUTION SYSTEM

1. Kind of pipe—Cast iron, steel and wood.	
2. Sizes—From $\frac{1}{2}$ -inch to 48-inch.	
3. Extended:	
4 inches and over in diameter (miles).....	17.947
Under 4 inches in diameter (miles).....	6.605
Total (miles)	24.552
4. Discontinued (miles)	15.001
5. Total now in use (miles).....	1,121.102
6. Cost of repairs per mile for 4-inch and larger.....	\$10.25
7. Number of leaks per mile for 4-inch and larger.....	32
8. Length of pipe, less than 4 inches in diameter (miles).....	306.888
9. Number of hydrants added during the year.....	108
Number added on mains owned by City.....	97
Number added on mains laid by private parties under city supervision, not yet taken over by City.....	11
Total	108
10. Number of hydrants (public and private) now in use (9 removed)	6,299
11. Number of stop gates added during the year.....	387
Number added on mains owned by City.....	372
Number added on mains laid by private parties under City supervision, not yet taken over by City.....	15
Total	387
12. Number of stop gates now in use (90 removed).....	12,106
13. Number of stop gates smaller than 4-inch diameter (80 removed)	4,005
14. Number of blow-offs.....	595
15. Range of pressure on mains, 20 to 125 pounds.	

SERVICES

16. Kind of pipe: Galvanized iron.	
17. Sizes: $\frac{1}{2}$ -in., $\frac{3}{4}$ -in., 1-in., 1 $\frac{1}{4}$ -in., 1 $\frac{1}{2}$ -in., 2-in. and 3-in.	
18. Extended, feet	
19. Discontinued, feet	
20. Total mains now in use, feet.....	
21. Number of service taps added during the year.....	
22. Number of services connected, total.....	85,347
23. Average length of service, feet.....	
24. Average cost of service for the year (installation).....	
25. Number of meters added during past year.....	2,994
26. Total meters now in use (including privately owned).....	84,675
27. Percentage of all services metered.....	99.21%
28. Percentage of receipts from metered water.....	
29. Number of motors and elevators added.....	
30. Number now in use.....	

STATISTICS ON CONSUMPTION OF WATER

(*Inside City Limits)

1. Estimated total population of City (Nov. 30, 1928).....	363,444
2. Estimated population on City-owned lines (Nov. 30, 1928) ..	370,522
3. Consumption for the year, gallons.....	13,144,835,190
4. Passed through meters, gallons.....	9,458,236,400
5. Percentage of consumption metered.....	100%
6. Average daily consumption, gallons.....	35,914,849
7. Gallons per day to each inhabitant.....	94.10
8. Gallons per day to each tap.....	412.16

* Includes approximately 1,650 services outside of City but paying direct to the Water Bureau.

(Outside City Limits)

(From 59 Water Companies and Water Districts, 4 of which obtain water through resale.)

9. Estimated population outside City served by City mains...	7,078
10. Estimated population outside City served by private water companies, Water Districts, etc.....	46,450
11. Consumption for year, gallons.....	588,033,696
12. Average daily consumption, gallons.....	1,608,054
13. Gallons per day to each inhabitant.....	34.6
14. Gallons per day to each tap.....	151.6
15. Percentage of total consumption.....	4.46

SUMMARY

16. Total estimated population supplied.....	416,972
17. Total consumption for the year, gallons.....	13,191,380,986
18. Total average daily consumption, gallons.....	36,042,025

BUREAU OF HEALTH

January 1, 1929.

HONORABLE JOHN M. MANN, COMMISSIONER OF PUBLIC UTILITIES, PORTLAND, OREGON:

Dear Sir: I have the honor to submit herewith the Annual Report of the Health Bureau and its subdivisions for the year ending December 31, 1928.

I wish to express my hearty appreciation for the co-operation extended me by yourself and the Council, and also to the members of the Bureau for their efficiency and loyalty.

Respectfully,

JOHN G. ABELE, M. D.,
CITY HEALTH OFFICER.

ANNUAL REPORT BUREAU OF HEALTH FOR 1928

The prevalence of epidemic diseases during the year showed but little variation from 1927.

In December, 1928, the total deaths in the city were 429. This was more than a hundred above the monthly average. The unusual number of deaths in this one month was due in part to the mild influenza outbreak which has continued in this month (January). Similar outbreaks occurred in 1920 with 137 deaths, and in 1922 with 102 deaths. The major epidemic in the fall of 1918 and 1919 resulted in 1352 deaths. Our death rate for the year per 1000 of population 10.9, total deaths 3672, as compared with a rate of 10.6 and a total of 3552 deaths in 1927. This rate is considerably below the national average which is about 12. The hospitals in the city are attracting each year more people from outside towns and districts who come here for treatment, resulting in a steadily increasing non-resident death list in our city. The non-resident deaths in the city by months for 1927-1928 were as follows:

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1928.....	49	54	43	57	56	49	50	53	53	51	50	60	625
1927.....	46	61	46	51	48	45	52	33	39	44	57	56	578

This increase of 47 non-resident deaths in 1928 over 1927 accounts, in part, for the slightly increased death rate.

The infant mortality rate for the year was 42.8, which was lower than in 1927 with a rate of 46.2. This rate of 42.8 for the year might be compared with the Oregon State rate of 47.5 for 1927, which was the lowest state rate in the Union. The highest rate in any state in 1927 was 125.8. In 1926 our rate was the lowest of any city in the United States in the 250,000 or over class. In 1927 we were tied for second place with Minneapolis, Seattle having the lowest rate.

There was a marked decrease in deaths from tuberculosis and a 15% increase in pneumonia deaths. Cancer and diseases of the heart and circulatory system showed no increase over the previous year. There was a considerable decrease in deaths from communicable diseases prevalent among children of school age. This was no doubt due in some degree to the work in the schools of doctors and nurses of our School Division.

The Sanitary Division has continued the inspection service of previous years, paying particular attention to housing, markets and general sanitation. Nineteen hundred and twenty-eight was the eleventh year that employes in food establishment have been required to obtain health cards.

Rodent control work has been continued, and we believe that our rat population is much less than it was five years ago, or before we started an intensive rat campaign. We particularly wish to thank the members of the Biological Survey stationed here for their help and co-operation.

CAUSES OF DEATH 1928 — Continued

Causes of Death	Total	SEX		COLOR					NATIVITY				
		Male	Female	White	Black	Indian	Chinese	Japanese	Others	Oregon	U. S.	Foreign	Unknown
77. Other Forms of Mental Alienation.....	6	3	3	6						1	4	1	
78. Epilepsy.....	2	1	1	2						1	2		
79. Infantile Convulsions.....	1	1	1	1						1			
80. Softening of the Brain.....	1	1	1	1						1			
81. Other Diseases of the Nervous System.....	31	15	16	31						7	18	6	
82. Diseases of the Eye and Annexa.....	1	1	1	1						1			
83. Diseases of the Ear and Mastoid Process.....	22	14	8	22						11	8	3	
84. Diseases of the Eye and Annexa.....	1	1	1	1						1			
85. Diseases of the Ear and Mastoid Process.....	22	14	8	22						11	8	3	
86. Diseases of the Eye and Annexa.....	1	1	1	1						1			
87. Diseases of the Eye and Annexa.....	5	2	3	5						2	1	1	
88. Endocarditis and Myocarditis (Acute).....	17	9	8	17						3	13	1	
89. Angina Pectoris.....	50	33	12	49			1			2	28	18	
90. Other Diseases of Heart.....	581	320	261	565	6		8	1		53	306	213	9
91a. Aneurysm.....	10	10	27	10						1	5	4	
91b. Arteriosclerosis.....	71	44	3	70			1			2	39	29	1
91c. Other Diseases of the Arteries.....	7	7	18	7						7	60	18	4
92. Embolism and Thrombosis (not Cerebral).....	89	41	2	89						1	2	2	
93. Diseases of the Veins.....	4	1	1	4						1			
94. Diseases of Lymphatic System.....	1	1	1	1						1			
95. Hemorrhage Without Specified Cause.....	1	1	1	1						1			
96. Other Diseases of Circulatory System.....	1	1	1	1						1			
97. Diseases of the Respiratory System—	4	3	1	4						1	1	2	
98. Diseases of Nasal, Tossae and their Annexa.....	1	1	1	1						1			
99a. Diseases of the Larynx.....	5	5	4	4			1			2	1	1	
99b. Bronchitis, Acute.....	4	1	3	4						2	2		
99c. Bronchitis, Chronic.....	3	2	1	3						2			
99d. Bronchitis, Unspecified, 5 Years and Over.....	119	72	47	116			1	1		34	48	31	6
100a. Bronchopneumonia.....	1	1	1	1						33	73	42	4
100b. Capillary Bronchitis.....	152	98	54	149	1		2			3	10	9	1
101a. Pneumonia, Lobar.....	15	5	10	15						3	10	2	
101b. Pneumonia, Unspecified.....	17	14	3	17						3	4	9	1
102. Pleurisy.....	12	7	5	12						5	3	4	
103. Congestion and Hemorrhagic Infarct of Lung.....	1	1	1	1						1			
104. Gangrene of the Lung.....	1	1	4	9						1	7	1	
105. Asthma.....	9	5	4	9						1	7	1	
106. Diseases of the Mediastinum.....	1	1	1	1						1			
107a. Diseases of Respiratory System, Others.....	2	1	1	2						1			
107b. Diseases of Respiratory System, Others.....	2	1	1	2						1			

CAUSES OF DEATH 1928 — Continued

Causes of Death	Total	SEX		COLOR					NATIVITY				
		Male	Female	White	Black	Indian	Chinese	Japanese	Others	Oregon	U. S.	Foreign	Unknown
109. Diseases of the Digestive System—	8	5	3	8						4	4		
110. Diseases of Pharynx and Tonsils.....	2	1	1	2						2			
111a. Diseases of the Esophagus.....	20	15	5	10	1					2	11	7	
111b. Ulcer of the Stomach.....	22	16	6	22						4	10	6	2
112. Other Diseases of the Duodenum.....	6	4	2	6						2	5	2	
113. Other Diseases of the Stomach.....	10	8	2	10						8	2		
114. Diarrhea and Enteritis (under 2 Years of Age).....	49	31	18	49	1					13	26	9	1
115. Diarrhea and Enteritis (2 Years and Over).....	11	6	5	11						1	5	5	
116. Appendicitis and Typhilitis.....	26	10	19	28	1					10	14	5	
117a. Hernia.....	6	2	4	6						2	3	1	
117b. Intestinal Obstruction.....	3	1	3	3						1	2		
118a. Other Diseases of the Intestines.....	3	1	3	3						1	1	1	
118b. Acute Yellow Atrophy of Liver.....	18	9	9	17				1		1	10	7	
119. Cirrhosis of Liver, Specified as Alcoholic.....	6	3	3	6						3	5	1	
120. Cirrhosis of Liver, Specified as Alcoholic.....	24	14	10	24						3	14	7	
121. Biliary Calculi.....	8	6	2	8						2	5	1	
122. Other Diseases of the Liver.....	16	4	12	16						7	6	3	
123. Diseases of the Pancreas.....	1	1	1	1						1			
124. Diseases of the Pancreas.....	1	1	1	1						1			
125. Diseases of the Pancreas.....	1	1	1	1						1			
126. Peritonitis Without Specified Cause.....	16	4	12	16						7	6	3	
127. Peritonitis Without Specified Cause.....	11	6	5	11						1	6	4	
128. Acute Nephritis (Unspecified under 10 Years).....	297	164	103	264			2	1		18	162	82	5
129. Chronic Nephritis (Unspecified under 10 Years and Over).....	20	13	7	20						7	10	3	
130. Other Diseases of Kidneys and Annexa.....	4	3	1	4						1	2	1	
131. Calculi of the Urinary Passages.....	3	2	1	3						2	2	1	
132. Diseases of the Bladder.....	27	27	8	27						1	13	13	
133. Diseases of the Prostate.....	8	8	8	8						2	4	2	
134. Salpingitis and Pelvic Abscess (Female).....	8	8	8	8						3	4	1	
135. Benign Tumors of the Uterus.....	8	8	8	8						3	4	1	
136. Nonpuerperal Uterine Hemorrhage.....	1	1	1	1						1			
137. Other Diseases of Female Genital Organs.....	4	1	4	4						1			

VII.—Nonvenereal Diseases of the Genitourinary System and Annexa—

- 128. Acute Nephritis (Unspecified under 10 Years).....
- 129. Chronic Nephritis (Unspecified under 10 Years and Over).....
- 130. Other Diseases of Kidneys and Annexa.....
- 131. Calculi of the Urinary Passages.....
- 132. Diseases of the Bladder.....
- 133. Diseases of the Prostate.....
- 134. Salpingitis and Pelvic Abscess (Female).....
- 135. Benign Tumors of the Uterus.....
- 136. Nonpuerperal Uterine Hemorrhage.....
- 141. Other Diseases of Female Genital Organs.....

CAUSES OF DEATH 1928 — Continued

Causes of Death	Total	SEX		COLOR					NATIVITY				
		Male	Female	White	Black	Indian	Chinese	Japanese	Others	Oregon	U. S.	Foreign	Unknown
VIII.—The Puerperal State—													
143a. Abortion.....	4		4	4						1	3	2	
143c. Accidents of Pregnancy, Others.....	4		4	4						1	3	1	
144. Puerperal Hemorrhage.....	4		4	4						3	2		
146. Puerperal Septicemia.....	5		5	5						1	2	2	
147. Puerperal Pileg. Alba Dolens, Embolus, etc.....	1		1	1						2	1		
148. Puerperal Albuminuria and Convulsions.....	1		1	1						1			
149. Following Childbirth (not otherwise defined).....													
IX.—Diseases of Skin and Cellular Tissue—													
151. Gangrene.....	7	5	2	7						2	5		
152. Furuncle.....	3	2	1	3						1	2		
XI.—Malformations—													
159a. Congenital Hydrocephalus.....	2	2		2						2			
159b. Congenital Malformations of Heart.....	8	8		8						8			
159c. Spina Bifida, etc.....	5	2	3	5						5			
XII.—Early Infancy—													
160. Congenital Debility, Icterus and Sclerema.....	2	1	1	2						2			
161a. Premature Birth.....	68	41	27	66			1			67	1		
161b. Injury at Birth.....	13	7	6	13						13			
162. Other Diseases Peculiar to Early Infancy.....	11	7	4	10			1			11			
XIII.—Old Age—													
164. Senility.....	23	7	16	23						15	8		
XIV.—External Causes—													
166. Suicide by Solid or Liquid Poisons.....	8	4	4	8						3	4	1	
166. Suicide by Corrosive Substances.....	6	1	5	6						2	2	1	
167. Suicide by Poisonous Gas.....	12	11	1	12						12	5	3	4
168. Suicide by Hanging or Strangulation.....	12	11	1	12						12	5	5	2

CAUSES OF DEATH 1928 — Continued

Causes of Death	Total	SEX		COLOR					NATIVITY				
		Male	Female	White	Black	Indian	Chinese	Japanese	Others	Oregon	U. S.	Foreign	Unknown
169. Suicide by Drowning.....	15	15	4	15						2	4	2	9
170. Suicide by Firearms.....	27	23	4	24	1					2	14	5	6
171. Suicide by Cutting or Piercing Instruments.....	6	6		6						1	3	2	2
172. Suicide by Jumping from High Places.....	6	2	4	6						2	3	1	
173. Suicide by Crushing.....	1	1		1						1	1		
174. Other Suicides.....	1	1		1						1	2		
177. Other Acute Accidental Poisonings.....	1	1		1						1	2		
179. Accidental Burns (Conflagration excepted).....	8	4	4	6	1					5	1	2	
180. Accidental Mechanical Suffocation.....	2	2		2						2	2		
181. Accidental Absorption of Irritable Gas.....	7	7		7						5	2		
182. Accidental Drowning.....	8	8		8						3	5	1	3
183. Accidental Traumatism by Firearms.....	2	2		2						1	1		
184. Accidental Traumatism by Piercing Instruments.....	3	3		3						1	2		
185. Accidental Traumatism by Fall.....	45	39	6	44			1			8	22	13	2
187. Accidental Traumatism by Machines.....	9	9		9						1	6	2	
188a. Railroad Accidents.....	8	8		8						1	5	2	
188b. Street Car Accidents.....	5	2	3	4						1	2	2	
188c. Automobile Accidents (City).....	51	36	15	51			1			31	14	2	1
188c. Automobile Accidents (Outside City).....	15	10	5	13	2					8	4	1	3
188c. Motorcycle Accidents.....	2	2		2						3	1		
188f. Injuries by other Vehicles.....	3	3		3						1	1	1	
188g. Landslides, other Crushing.....	10	10		10						3	3	3	1
190. Other Accidental Electric Shocks.....	8	5	3	6			2			1	3	3	1
197. Homicide by Firearms.....	1	1		1						1	3		
198. Homicide by Cutting or Piercing Instruments.....	1	1		1						1	3		
199. Homicide by Other Means.....	1	1		1						1	3		
201. Fracture (cause not specified).....	26	12	14	26						2	14	10	
202. Other External Violence.....	7	5	2	7						1	3	2	1
XV.—Ill Defined Diseases—													
205. Cause of Death Ill-defined.....	2		2	2							2		
Totals.....	3,672	2,103	1,569	3,576	26	4	39	21	6	658	1,898	1,010	106

INFANT MORTALITY—DEATHS UNDER ONE YEAR, 1928--Continued

Causes of Death	Total	Male	Female	Under 1 Hour	1 to 24 Hours	1 to 6 Days	7 to 31 Days	MONTHS																			
								1	2	3	4	5	6	7	8	9	10	11									
100a. Bronchopneumonia.....	15	10	5				2	1	1	2	2	2	3	3	2	2	1	1	1	1	1	1	1	1	1	3	
101a. Pneumonia, Lobar.....	9	4	5				1																				
101b. Pneumonia, Unspecified.....	2	2					1																				
103. Congestion and Hemorrhagic Infarct of Lung.....	4	4				1	1	1	1	1	3	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	3
110. Diseases of the Esophagus.....	3	3				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
113. Diarrhea and Enteritis.....	8	6	2			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
118b. Intestinal Obstruction.....	3	3				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
124. Other Diseases of the Liver.....	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
126. Peritonitis without Specified Cause.....	5	1	4			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
128. Acute Nephritis.....	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
131. Other Diseases of the Kidneys.....	3	2	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
159a. Congenital Hydrocephalus.....	8	1	7			3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
159b. Congenital Malformations of Heart.....	5	2	3			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
159c. Spina Bifida, etc.....	2	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
160. Congenital Debility, Icterus.....	68	41	27			8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
161a. Premature Birth.....	13	7	6			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
161b. Injury at Birth.....	11	7	4			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
162. Other Diseases Peculiar to Early Infancy.....	11	7	4			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Totals.....	193	123	70	10	48	44	28	6	13	5	3	8	6	8	6	2	2	2	4	6	8	2	2	4	4	6	

TOTAL DEATHS, ALL CAUSES, 1915 TO 1928, INCLUSIVE, AND NUMBER OF DEATHS EACH YEAR FROM PRINCIPAL EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES

Year	Total Deaths	Typhoid Fever	Small-pox	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Tuberculosis
1915.....	2,283	14	1	4	1	5	23	11	230
1916.....	2,307	14		2	2	8	7	35	232
1917.....	2,427	16		19	5	3	10	7	200
1918.....	3,540	18		24	7	16	12	658	246
1919.....	3,582	11		11	4	1	22	694	204
1920.....	3,193	8	2	11	3	19	16	137	175
1921.....	2,843	8	1	6	3	8	51	9	129
1922.....	3,188	9	1	1	4	9	24	102	148
1923.....	3,055	6		2	1	12	31	53	206
1924.....	3,201	17		11	6	2	31	4	157
1925.....	3,325	6		4	3	17	38	10	174
1926.....	3,377	8		4	6	4	24	32	156
1927.....	3,552	7		5	2	10	12	50	174
1928.....	3,672	7	3	3	2		10	58	144

ISOLATION HOSPITAL — 1928

	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Total Cases	Total Hospital Days	
	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days			
Diphtheria	6	127	11	104	10	94	14	86	12	50	7	36	13	70	3	12	19	114	37	236	31	197	35	223	204	1349	
Scarlet Fever	2	6	6	118	13	89	4	59	11	114	10	143	4	31	3	29	7	89	8	93	6	40	10	181	88	1118	
Smallpox	4	40	4	596	73	816	55	481	53	425	31	243	21	209	17	112	10	106	17	128	29	288	26	173	413	4074	
Epidemic Meningitis	4	2	13	2	17																					30	
Mumps	4	2	13	2	17																					6	
Erysipelas	1	1	4	32	1	3			1	2	1	4	1	2	2	2	1	1	1	1	1	10	1	3	10	56	
Vincents Angina																										3	
Polomyelitis																										2	
Gonorrhoeal Opth.																										1	
Food Rash																										1	
Scabies																										1	
Measles																										1	
Influenza																										1	
Tonsillectomy																										1	
Observation																										1	
Totals	19	61	775	64	867	97	1002	73	626	77	591	50	428	40	314	28	160	38	315	64	461	72	563	81	612	745	6714
Deaths by Months:																											
Residents	13	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
Non-resident	6			1																							

BACTERIOLOGICAL REPORT — YEAR 1928
Submitted by R. L. Benson, M. D.

The functions of the Bacteriological Laboratory and the scope of its work have been outlined in previous reports and need not be repeated here.

The past year has, however, been signalized by several distinct achievements, one of the more important of which is the freedom from any outbreak of communicable disease traceable to water, milk or other foods.

The diphtheria situation has shown noteworthy improvement over previous years. The incidence of the disease has steadily declined under the influence of rigid school inspection and culturing, with increasing use of the Schick test and Toxin-Antitoxin. The year has witnessed no outbreaks beyond sporadic cases.

Safeguarding of the City's water supply during construction of the great Bear Creek storage dam has been accomplished by daily routine examination of the water at various points, and frequent special examinations; also by personal inspection of the health of the large force of employes at the construction camps. The result has been entirely gratifying.

The swimming tanks of the city have been examined at least once a month. Contamination of these has decreased to a marked degree.

The study of the pollution of the Willamette River, which has been carried on over the past two years in conjunction with the Bureau of Public Works and the United States Public Health Service, is nearing completion and will be given a special report at a later date.

SPECIMENS EXAMINED

Diphtheria cultures positive	960
Diphtheria cultures negative	10,459
Sputum T. B. examinations positive	24
Sputum T. B. examinations negative	94
Agglutination tests for typhoid positive	5
Agglutination tests for typhoid negative	6
Feces and urine examinations for typhoid	1,353
Gonorrhoea smears positive	100
Gonorrhoea smears negative	372
Wasserman tests positive	42
Wasserman tests negative	155
Water analysis	1,639
Milk bacterial counts	4,808
Urine examinations for Civil Service	52
Miscellaneous examinations	180
Swabs prepared	21,000
Klebs Loeffler tubes prepared	20,650
Willamette River pollution tests	650

SCHOOL DIVISION — YEAR 1928
By Helen A. Cary, M. D.

Our statistical report has brought out some interesting facts. We felt that much improvement had been made in our contagious situation last year in the need for decreased class room inspection. The same is true for this year as 92,735 were made instead of 96,000 of the previous year. With more constant observation on the part of the class room teacher in the early detection of contagious conditions

and the vigilance in regard to re-admittance, the need of class room inspection is gradually decreasing.

The routine work has been carried on satisfactorily throughout the year. With regard to the physical examinations, it has been gratifying to note the number of parents present at these examinations. There has been greater interest shown in the school health work and an increased understanding of our aims. We find that the parents, the teachers, the principals, and the child are seeking the nurse more frequently for conferences. The nurse is able many times to give information that brings an understanding to a knotty problem, and a solution to the condition. Behavior problems are often corrected in this way.

The first-aid classes have increased in number and are greatly appreciated both by the teachers and the children. It is the upper grade groups of children who are given this instruction. A play was written by the nurse at one of the schools where first aid was taught. All the main points of the course were brought out so that the other children were eager to take these classes.

This year has seen an increase in the work in a new department. The Oregon T. B. Association has financed a demonstration of health work in two of the high schools, Benson Polytechnic and Franklin High School. In Benson the work has been organized along first-aid classes. Those students who are A in their class room work are allowed to take first aid.

Vision testing has been carried on there in an effort to eliminate poor eyesight as a possible cause of accident. Some physical examinations have been given to determine the heart condition for competitive exercise. In Franklin High the work has been approached from a different angle. Because of the previous work carried on in the science and civic classes the students had a broader and better background for health work. A nutritional program has been stressed, for we know that the high school student neglects his general diet with a resultant malnutrition and susceptibility to tuberculosis. A full health week program was put on just before Christmas with every class participating. Even themes on health were written in Spanish.

For this year, 1929, we have started a new project. We have been making an effort to give all the children in the grade schools a vision test. From this survey we hope to gain the necessary information that will make it possible to begin sight conservation classes in certain centers of the city.

We are looking forward to even a greater expansion of our work for the coming year owing to an increase of personnel.

ANNUAL REPORT OF SCHOOL HEALTH DIVISION — YEAR 1928

Schools visited 4,490

Exclusions and Re-Admissions	E	A
Colds and sore throat.....	3,749	12,053
Grippe	278	2,079
Pneumonia	43	169
Miscellaneous	2,201	6,789
Dermatitis	282	669
Impetigo	565	787
Scabies	740	609
Ring worm	211	242
Poison oak	104	548
Pediculosis	72	52
Inflamed eye	931	1,101
Chickenpox	726	1,751
Measles	268	691
Mumps	293	719
Whooping cough	11	21
Smallpox	134	170
Diphtheria	29	56
Scarlet fever	31	33
Contacts	698	1,005
Totals	11,366	29,544

ANNUAL REPORT OF SCHOOL HEALTH DIVISION—YEAR 1928—
Continued

Class inspections	92,735
Cultures	2,561
Vaccinations	6,561
Goitre tablets	254,509
Dressings	15,243
Emergencies	2,259

Consultations—

Phone calls	15,995
Parents	10,110
Teachers and principals	26,875
Individual child	43,876
Health agency	905
Social agency	233
Home calls	4,354
Notes to parents	16,430

Health Education—

First aid classes	171
Home making classes	123
Health plays and pageant	37
Health films shown	95
Number of children seeing films	17,269
Nutrition classes	193

Nurses Assisted With—

Goitre examinations	11,271
Toxin-antitoxin	5,953
Vision tests	17,497
Defective vision	2,581
Hearing tests	7,160
Defective hearing	452

Clerical—

Weight charts	1,436
Volunteer help	109
Health cards	24,747
Physical examinations	8,222
Goitre examinations	11,271
Toxin anti-toxin	5,953

Physical Examinations—

Number parents present	583
Number examined	8,222
Number free from defects	1,137
Skin condition	375
Poor nutrition	1,084
Defective eye muscles	190
Ear abnormalities	41
Defective nose	223
Naso pharynx	400
Defective tonsils	3,425

Physical Examinations—Continued

Defective thyroid	2,014
Lymph glands	1,388
Heart	261
Lungs	37
Operation scars	84
Orthopedic	193
Posture	2,232
Feet	1,160
Speech	100
Defective teeth	2,122

Corrections and Improvements—

Skin	56
Nutrition	11,760
Eye muscles	40
Ear	8
Nose	61
Tonsils	1,266
Mouth	3
Thyroid	450
Lymph glands	20
Heart	39
Lungs	5
Orthopedic	17
Posture	251
Feet	116
Speech	172
Teeth	2,112
Vision	557
Hearing	20

Nutrition—

Number weighed and measured	95,224
Number 7% or more underweight	18,187
No. 20% or more overweight	2,578

Referred to—

Clinic	2,191
Private physician	3,332
V. M. A.	88
P. W. B.	95
Other	358

Talks—

P. T. A. meetings	88
Teachers	155
Class room	3,745
Miscellaneous group	340

MILK DIVISION — YEARLY REPORT — 1928

Submitted by D. W. Mack, V. S.

Inspections—

Dairies	7,969
Creameries and milk depots	394
Total	8,363

Number new dairy barns erected	29
Number barns remodeled	61
Number new milk houses erected	264
Number dairies closed	21
Number new creameries and milk depots erected	1
Number creameries and milk depots remodeled	2
Number gallons milk condemned and returned	3,655
Number animals tested for tuberculosis	194
Number animals reacting	4,576
Number animals suspicious	183
Number barns disinfected	6
Amount collected for testing cattle	73
Cases in court	\$733.70
	3

Samples of Milk Analyzed—

Brought in by inspectors (milk and cream)	4,423
Brought in by citizens (milk and cream)	1,402
Total	5,825

Per cent below standard less than	1%
Miscellaneous samples analyzed	231

Raw Milk from Producer-Distributor—

Average butter-fat	4.0
Average solids, not fat	9.0
Pasteurized Milk—	
Average butter-fat	4.0
Average solids, not fat	9.0

Bacteriological Analysis of Milk—

Pasteurized milk	10,000 and under per c. c.	59.79%
	20,000 and under per c. c.	76.05
	50,000 and under per c. c.	92.50
	100,000 and under per c. c.	98.04
	200,000 and under per c. c.	99.99
Raw milk from producer-distributor	10,000 and under per c. c.	48.61
	20,000 and under per c. c.	68.33
	50,000 and under per c. c.	90.83
	100,000 and under per c. c.	97.30
	200,000 and under per c. c.	99.98

Average Bacteriological Count of All Samples—

	10,000 and under per c. c.	54.20%
	20,000 and under per c. c.	72.19
	50,000 and under per c. c.	91.66
	100,000 and under per c. c.	97.67%
	200,000 and under per c. c.	99.98

MARKET INSPECTION — YEAR 1928

Food establishments inspected	19,477
Official calls	14,479
Establishments approved for license	6,384
Restaurants rated	694
Licenses issued	3,204
Licenses issued (special 7-day)	91
Licenses issued (hospital)	106
Health cards issued women	14,967
Health cards issued men	10,154
Foodstuffs condemned (pounds)	3,685

SANITARY INSPECTIONS

Complaints by citizens	4,719
Hotels and dwellings	5,188
Abatements	1,756
Written notices	1,589
Verbal notices	10,137
Signs posted	708
Arrests	3
Typhoid cases investigated	33
Samples of water tested	952
Rodent control, inspections made	720

EXAMINED FOR COURT OF DOMESTIC RELATIONS

Boys	361
Girls	518

MEAT DIVISION REPORT — YEAR 1928
Submitted by E. E. Chase, V. S.

Number of Carcasses Inspected and Passed—

Beef	17,626
Veal	42,015
Hogs	75,537
Sheep	25,794
Goats	746
Total	161,718

Number of Carcasses Inspected and Condemned—

Beef	135
Veal	56
Hogs	43
Sheep	41
Goats	22
Total	297

Number of post-mortems held on reactors (food 444, Con. 75)	519
Number of livers condemned	5,337
Number pounds sour meat, etc., condemned	9,417
Number of hogs heads condemned for T. B.	761

EMERGENCY HOSPITAL REPORT — 1928

New cases treated	4,021
Surgical cases treated	2,489
Medical cases treated	1,383
Venereal treatments and examinations	184
Redressings	2,325
Treated in ward	455
Outside calls	703
Insane patients	55
Attempted suicide	85
Medico legal examinations	50
Total cases treated	11,844

BUREAU OF MUNICIPAL LIGHTING

January, 15, 1929.

MR. JOHN M. MANN, COMMISSIONER OF PUBLIC UTILITIES, PORTLAND,
OREGON:

Dear Sir: In re City Lighting for fiscal year ending November
30, 1928.

Expenditures were made as shown by the City Auditor's books
as follows:

Street lighting (which includes all incandescent lighting, except that used for lighting buildings and that part of Ornamental Post Lighting which represents the amount which would be paid for arc lights had they been continued in service where post lamps are now used)	\$267,183.47
Public buildings	12,839.06
Cost of installing new lamps	4,022.33
The City's portion of the cost of ornamental post lighting	3,734.35
Total	\$287,779.21

There were in operation December 1, 1927, 5007 overhead arc
lights, to which were added during 1928, 180 lamps; and 108 under-
ground arc lamps, from which 13 were discontinued during 1928;
leaving in service December 1, 1928, 5187 overhead arc and 95 under-
ground arcs.

In accordance with existing ordinances, we are paying North-
western Electric Co. \$401.54, of which amount \$60 applies as a credit
on account of Third Street lighting and \$341.54 applies as a credit
on ornamental post lamps on Fourth, Fifth, Sixth, Tenth, Jersey and
Washington Streets, where 49 underground arc lamps and 24 over-
head arc lamps have been replaced by the ornamental type lamps.

This office continues to receive many more petitions for new
lamps than we are able to take care of.

Yours truly,

H. A. GOODE,
ASSISTANT TO COMMISSIONER OF PUBLIC UTILITIES.

BUREAU OF WEIGHTS AND MEASURES

REPORT OF THE SEALER OF WEIGHTS AND MEASURES FOR THE YEAR ENDING NOVEMBER 30, 1928

TO THE HONORABLE JOHN M. MANN, COMMISSIONER OF PUBLIC UTILITIES:

Dear Sir: Following is the report of the Bureau of Weights and Measures for the fiscal year 1928:

Scales inspected	3,126
Scales sealed	2,968
Scales condemned	71
Scales ordered repaired	87— 3,126
Scales adjusted or repaired before sealing	106
Weights inspected	518
Weights found accurate	505
Weights condemned	13— 518

The inspection of scales some few years ago constituted a very large part of the work done by the Bureau of Weights and Measures, in recent years, however, other mechanical devices for determining quantities have come into such general use that of necessity less time is given to scale inspection and more to other activities.

An effort is made by the Bureau, however, to see that the scales used primarily in the sale of foodstuffs at retail are kept to a fairly high degree of accuracy.

The common cause of error found in scales was dirt interfering with the free movement of parts, worn or broken parts due to long use or overloading and in scales of the computing or automatic type a common cause of error was failure to renew the oil regulating the motion of the scale.

In general it may be stated that in the transaction of business throughout the city full weight is the rule and short weight the very rare exception.

It is true that during the year a considerable number of complaints have been received as to the giving of short weight or measure in trade but in the great majority of cases careful investigation has proved that differences where they occur are as a rule due to honest mistake, misunderstanding or carelessness rather than to any deliberate intent to defraud.

Many people check the weight of their purchases and it has been found that the dealer to whom complaint is made will almost invariably rectify any error upon notice without recourse to official help.

The dealers recognize the fact that it is practically impossible to build up or carry on a business that does not have the confidence of the community.

During the year practically all of the scales used in certifying grain weights by the State of Oregon were tested, this Bureau endeavoring to co-operate to the fullest extent with the State Grain Inspection Department, under whose jurisdiction the weighing of grain comes.

It is fair to state that in the inspection of scales used in the

grain trade the users of the scales as a rule welcome the inspection and where errors are found corrections are made promptly.

The inspection of measuring devices used in the sale of petroleum products has in recent years become of great importance.

Until the last two years the companies engaged in the sale of gasoline at wholesale have maintained repair men whose duty it was to keep in repair the measuring equipment used at the different company stations as well as that used at the privately owned stations.

This service has, however, been very largely discontinued, throwing an added burden upon the Bureau which is becoming heavier as the filling stations increase in number and as the equipment in use becomes older.

Many calls are received by the Bureau for tests of equipment that is not working properly which should, in fact, be put in to service by men qualified to make repairs as it is not and never has been the function of the Bureau to effect repairs, an effort is made, however, to see that all defective equipment is repaired at once or its use discontinued.

Following is a statement of the equipment tested:

Pumps tested	1,057
Sealed	908
Ordered repaired	140
Condemned	9— 1,057
Adjusted or repaired before sealing	51

Wood was measured throughout the year for fuel dealers as well as consumers and an effort was made to see that the ordinance standardizing the load of wood at three-fourths of a cord when well piled was complied with and as a rule it was found that the wood delivered from established yards under proper supervision complied with the law. Such trouble as was encountered was with few exceptions due to itinerant dealers who enter the fuel business at the period of greatest demand.

Some trouble was had over the quality of wood, complaint being made that wet wood was delivered for dry or that the kind of wood delivered was not as ordered, a matter not covered by the ordinance.

Buyers were advised that it was always advisable to look over the load before accepting delivery as if this is done considerable trouble and dissatisfaction may be avoided.

The following may be listed as a part of the miscellaneous work done:

Wood measured (cords)	6,038
Coal inspected (pounds)	167,500
Briquettes inspected (pounds)	6,900
Gasoline meters tested	3
Wheat weighed (pounds)	259,700
Linoleum measured (yards)	259
Sand and gravel trucks measured	20
Hardwood flooring measured (feet)	3,000
Excavation work measured (yards)	401
Berries inspected (crates)	2,500
Meat weighed (pounds)	3,700
Sawdust measured (units)	50
Loadometer inspected	1
Containers measured	325

During the year complaints were received and investigations made in various lines not included in the above.

Two complaints were filed in the Municipal Court for selling short-measure wood resulting in two convictions, one defendant being fined \$15 and sentence being suspended and restitution being ordered in the other.

Two cases for selling short-weight coal resulted in one fine of \$50 and one suspended sentence with restitution ordered.

Following is a statement of the cost of maintenance of the Bureau:

Personal service	\$5,270.61
Operation and maintenance.....	940.53
	\$6,211.14

Respectfully submitted,

E. D. JONES, CITY SEALER.

ANNUAL REPORT OF THE DEPARTMENT OF FINANCE

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

DEPARTMENT OF FINANCE

STANHOPE S. PIER
COMMISSIONER

OFFICE OF CITY TREASURER—
WM. ADAMS, City Treasurer

BUREAU OF PARKS—
C. P. KEYSER, Superintendent

BUREAU OF PURCHASES AND STORES—
FRANK COFFINBERRY, Purchasing Agent

BUREAU OF LICENSES—
J. S. HUTCHINSON, Inspector

BUDGET CLERK AND ACCOUNTANT—
JOHN J. CURTIN

PROPERTY CUSTODIAN—
GENTRY W. YATES

BUREAU OF CITY HALL—
M. J. MURNANE, Custodian

MUNICIPAL REFERENCE LIBRARY—
CAROLINE L. B. SIGRIST, Librarian

DEPARTMENT OF FINANCE

TO THE COUNCIL:

Your Commissioner of Finance transmits herewith the reports of the Department of Finance for the fiscal year ending November 30, 1928.

There is no marked change in the financial condition of the City. Sinking Funds are adequate, and the investment of funds on hand is producing better than 4 per cent compounded semi-annually.

The employment of an additional deputy in the Bureau of Licenses has produced results which more than justify the expenditure.

The Park Department, the report of which is herewith submitted, is confronted with more demands than any other Bureau under my supervision. We have large areas of park property either not improved or only partly so. The \$100,000 a year which we have been expending for the improvement in parks does not give us sufficient funds to meet the demands of the public. Under this program it is impossible to furnish all the districts of our City with swimming facilities, community houses, and other recreational features, which some of the older districts now have. In my opinion, the full 0.4 of a mill should be allowed each year.

Our budget system is working very satisfactorily and we are receiving the co-operation of all bureaus and departments.

Respectfully submitted,

STANHOPE S. PIER,
COMMISSIONER OF FINANCE.

OFFICE OF CITY TREASURER

ANNUAL REPORT OF WM. ADAMS, CITY TREASURER, FOR THE
YEAR ENDING NOVEMBER 30, 1928

Balance December 1, 1927.....	\$ 3,368,818.64
Received from all sources.....	19,843,597.25
	<hr/> \$23,212,415.89
Disbursed	\$20,384,215.74
Balance	2,828,200.15
	<hr/> \$23,212,415.89

GENERAL FUND

Balance December 1, 1927.....		\$ 527,295.07
Received—		
Current taxes	\$ 3,464,773.39	
Advance taxes	16,941.64	
1927 taxes	344,439.69	
Previous taxes	94,676.45	
Interest on taxes.....	16,708.79	
Interest on daily balance.....	6,507.76	
General licenses	156,239.86	
Dog licenses	21,474.50	
Franchises—		
Portland Electric Power Co.....	19,025.00	
Southern Pacific Co.....	2,500.00	
Portland Gas & Coke Co.....	100.00	
Linnton Transit Co.....	100.00	
Oregon Electric Co.....	6,785.00	
O-W. R. R. & N. Co.....	257.00	
S. P. & S. Co.....	500.00	
Northwestern Electric Co.....	69,527.36	
United Railways	1,476.12	
Pacific Telephone & Telegraph Co.....	15,000.00	
Central Heating Co.....	50.00	
Portland Central Heating Co.....	5.00	
Multnomah Heating Co.....	10.00	
Use of streets.....	86.00	
Hawthorne Bridge	17,436.09	
Morrison Bridge	9,916.65	
Broadway Bridge	11,390.70	
Municipal Court fines.....	125,322.64	
Pound fees	4,025.15	
Building permits	26,757.50	
Electrical permits	26,690.05	
Electrical contractors	2,000.00	
Sidewalk permits	816.50	
Plumbing permits	18,825.50	
Sewer permits	1,942.00	
Electrical dealers	3,192.50	
Bill board permits.....	214.00	
Radio permits	69.50	
Codes	478.35	
Blue prints	234.80	
Tests	1,111.70	
Public market	14,462.05	

GENERAL FUND—Continued

Concession	\$ 5,150.00
Birth and death certificates.....	632.50
Telephone	15.76
Comfort station	546.23
Appeals denied	160.00
Badges	38.00
Premium on bonds.....	99,931.68
Cost of advertising.....	3,309.21
Repair and construction of sidewalk.....	6,764.08
Weeds and nuisance assessments.....	9,289.01
Interest on sidewalk and nuisance assessments	150.43
Engineering fees	117,739.28
Tuberculin rotary	733.70
Earth slides	1,765.89
Certified copies	32.80
City charters	26.85
Witness and jury fees.....	75.00
Rents and leases.....	9,256.00
Refunds	2,165.41
Redemption of property.....	315.99
Repair to pavement and sewers.....	3,745.71
10 per cent paving.....	2,515.28
Police Station	215.70
Towing and storage of autos.....	4,572.24
Rolling streets	3,359.90
Fines and costs of City cases.....	16,847.25
Loans	3,909,000.00
Isolation Hospital	3,156.85
Damage to autos, etc.....	383.06
Anti-toxin and vaccine.....	527.80
Poisons	52.00
Maps and plans.....	70.65
Sale of junk.....	672.30
State encampment	316.70
Stationery	70.72
Garbage disposal	266.50
Damage to hydrant.....	1,192.91
Sale of old autos, etc.....	922.25
Damage to lamp post.....	140.00
Traffic signs and signals.....	7.85
Cutting F. A. T. wires.....	72.00
Use of buildings.....	109.53
Injury to employes.....	606.88
Sanitary towels	31.25
Material and supplies.....	62.92
Sale of guinea pigs.....	29.00
Sale of sacks	423.70
Sale of stamps	84.60
Damage to park property.....	37.17
Oiling	7.50
Right of way.....	427.05
Use of equipment.....	1.00
Labor, Municipal Shop.....	535.82
Removal trees	127.83
Auto licenses	12.00
Vacation of streets.....	44.15
Placing lights	28.03
Removing rubbish .....	.86
Planting	2,223.74
Damage to traffic signals.....	162.49
Forfeit on specifications.....	30.00
Sale of equipment.....	31.35
Damage to fire box and post.....	39.56
Sale gas and oil.....	560.00

GENERAL FUND—Continued

Duplicate license tags.....	\$ 2.00	
Spraying trees	75.00	
Sale of cinders.....	460.31	
Redecking Union Avenue Bridge.....	7,610.74	
Sale of fire boats.....	10,000.00	
Sale of buildings.....	225.00	
Sale of Red Cross books.....	41.40	
Hauling	6.07	
Overage in cash.....	.65	\$ 8,732,332.33
Transferred—		
Playgrounds and Parks Fund.....	\$ 6,855.47	
Special Bridge Fund.....	34,432.26	
Public Auditorium Fund.....	753.20	
Fire Dept. Construction Fund, No. 2.....	24,460.36	
Water Fund	29,654.45	
Assessment Collection Fund.....	1,387.53	
Municipal Paving Rotary Fund.....	48,465.82	
Eastmoreland Golf Fund.....	4,937.65	
West Hills Golf Fund.....	2,002.99	
Rose City Golf Fund.....	6,696.68	
Auto Camp Fund.....	748.18	
Garbage Crematory Fund.....	272.29	
U. S. Grant Property Sales Fund.....	17.82	
Water Construction Fund.....	1,458.12	
Bridge Access Fund.....	959.84	
Bridge Access Fund No. 2.....	4,174.14	
Police Traffic Signal Fund.....	632.63	
Utility Election Fund.....	2,148.72	
Paving Fund .....	.11	
Street Improvement Fund.....	89.79	
Sewer Fund	301.28	
Street Extension Fund.....	1,165.24	
Firemen's Salary Increase Fund.....	346,718.53	
Policemen's Salary Increase Fund.....	261,660.23	779,993.33
		<u>\$10,039,620.73</u>
Disbursed—		
Warrants		\$ 8,602,571.56
Badges redeemed		15.00
Transferred—		
Playgrounds and Parks Fund.....	\$ 11,094.08	
Water Fund	1,174.91	
Assessment Collection Fund.....	6.10	
Municipal Paving Rotary Fund.....	115,234.76	
Eastmoreland Golf Fund.....	9,297.88	
West Hills Golf Fund.....	242.72	
Rose City Golf Fund.....	1,323.33	
Gantry Crane Fund.....	.20	
Garbage Crematory Fund.....	5.30	
Police Traffic Signal Fund.....	220.59	
Fire Dept. Construction Fund No. 2.....	60,270.44	
Street Improvement Fund.....	601.60	
Street Extension Fund.....	4,780.70	
Street and Sewer Interest Fund.....	51.80	
Firemen's Salary Increase Fund.....	141,287.83	
Policemen's Salary Increase Fund.....	110,273.92	
Water Construction Fund.....	200,000.00	655,866.16
Balance		781,168.01
		<u>\$10,039,620.73</u>

BONDED INDEBTEDNESS INTEREST FUND

Balance December 1, 1927.....		\$ 237,015.59
Received—		
Taxes	\$ 492,116.08	
Interest on taxes.....	2,312.96	
Interest sale of bonds.....	1,215.15	495,644.19
		<u>\$ 732,659.78</u>
Disbursed—		
Warrants		\$ 167.61
Coupons cashed		494,405.00
Balance		238,087.17
		<u>\$ 732,659.78</u>

SINKING FUND

Balance December 1, 1927.....		\$ 124,183.47
Received—		
Taxes	\$ 366,031.76	
Interest on taxes.....	1,468.48	
Bonds	19,200.00	
Interest on bonds.....	60,493.78	
Interest on daily balance.....	657.65	
Interest on engineering warrants.....	233.42	
Securities sold	300,000.00	
Premium on securities sold.....	5,546.28	
Interest on securities sold.....	4,588.98	758,220.35
Transferred—		
Improvement Bond Interest Fund.....	\$ 297.54	
Improvement Bond Sinking Fund—Linn-ton	810.00	1,107.54
		<u>\$ 883,511.36</u>
Disbursed—		
Warrants		\$ 290,362.04
Bonds redeemed		142,500.00
Balance		450,649.32
		<u>\$ 883,511.36</u>

PLAYGROUNDS AND PARKS FUND

Balance December 1, 1927.....		\$ 24,838.77
Received—		
Taxes	\$ 84,115.43	
Interest on taxes.....	509.40	
Interest on daily balance.....	378.59	
Rent of tractor.....	68.00	
Sale of old house.....	40.00	
Planting	2,176.37	
Sale of sacks.....	463.80	
Extension Forty-seventh St. S. E.....	339.00	88,090.59
Transferred—		
General Fund	\$ 11,094.08	
Eastmoreland Golf Fund.....	504.06	11,598.14
		<u>\$ 124,527.50</u>
Disbursed—		
Warrants		\$ 96,343.59
Transferred—		
General Fund		6,855.47
Balance		21,328.44
		<u>\$ 124,527.50</u>

SPECIAL BRIDGE FUND

Balance December 1, 1927.....		\$ 124,411.34
Received—		
Taxes	\$ 69,417.55	
Interest on taxes.....	502.17	
Interest on daily balance.....	1,917.31	71,837.03
		<u>\$ 196,248.37</u>
Disbursed—		
Warrants		\$ 93,511.32
Transferred—		
General Fund.....	\$ 34,432.26	
Street Improvement Fund.....	46,304.00	80,736.26
Balance		22,000.79
		<u>\$ 196,248.37</u>

PUBLIC AUDITORIUM FUND

Balance December 1, 1927.....		\$ 3,299.64
Received—		
Rent, etc.	\$ 24,166.44	
Interest on daily balance.....	26.29	
Refund	16.20	
Telephone	8.80	
Vending machine	2.70	
Payment by General Fund.....	7,500.00	
Refund—Cash Rotary Fund.....	600.00	32,320.43
Transferred—		
Municipal Paving Rotary Fund.....		4,000.00
		<u>\$ 39,620.07</u>
Disbursed—		
Warrants		\$ 36,281.75
Transferred—		
General Fund		753.20
Balance		2,585.12
		<u>\$ 39,620.07</u>

FIREMEN'S SALARY INCREASE FUND

Received—		
Taxes	\$ 217,219.96	
Interest on taxes.....	676.01	
Interest on daily balance.....	270.32	\$ 218,166.29
Transferred—		
General Fund		141,287.83
		<u>\$ 359,454.12</u>
Disbursed—		
Transferred—		
General Fund		\$ 346,718.53
Balance		12,735.59
		<u>\$ 359,454.12</u>

POLICEMEN'S SALARY INCREASE FUND

Received—		
Taxes	\$ 160,091.93	
Interest on taxes	494.68	
Interest on daily balance	192.92	\$ 160,779.53
Transferred—		
General Fund		110,273.92
		\$ 271,053.45
Disbursed—		
Transferred—		
General Fund		\$ 261,660.23
Balance		9,393.22
		\$ 271,053.45

FIRE DEPARTMENT CONSTRUCTION FUND

Balance December 1, 1927		\$ 7,404.88
Received—		
Interest on daily balance		115.76
		\$ 7,520.64
Disbursed—		
Warrants		\$ 3,034.50
Transferred—		
Fire Department Construction Fund No. 2		4,486.14
		\$ 7,520.64

FIRE DEPARTMENT CONSTRUCTION FUND, NO. 2

Balance December 1, 1927		\$ 139,426.40
Received—		
Interest on daily balance	\$ 2,361.12	
Sale of bonds	224,000.00	
Premium on bonds	5,129.60	
Sale of property	10.00	231,500.72
Transferred—		
General Fund	\$ 60,270.44	
Fire Department Construction Fund	4,486.14	64,756.58
		\$ 435,683.70
Disbursed—		
Warrants		\$ 325,547.55
Transferred—		
General Fund		24,460.36
Balance		85,675.79
		\$ 435,683.70

PARK AND BOULEVARD CONSTRUCTION FUND

Balance December 1, 1927		\$ 1,926.43
Received—		
Interest on daily balance	\$ 43.37	
Extension new street	405.00	448.37
		\$ 2,374.80
Disbursed—		
Warrants		\$ 292.20
Balance		2,082.60
		\$ 2,374.80

WATER FUND

Balance December 1, 1927		\$ 500,076.80
Received—		
Collections for water	\$ 1,575,527.31	
Interest on daily balance	10,170.98	
Interest on bonds	1,333.33	
Sale of junk	952.80	
Refund	19.00	
Sale of empty sacks	43.40	
Damage to auto	2.40	
Damage— Extension Powell street and Brooklyn street	200.00	
Encampment	18.00	
Sale of property	1,850.20	
Interest on Palatine Hill property	150.00	1,590,267.42
Transferred—		
General Fund	\$ 1,174.91	
Water Construction Fund	837,597.77	
Municipal Paving Rotary Fund	1,999.84	840,772.52
		\$ 2,931,116.74
Disbursed—		
Warrants		\$ 1,286,741.52
Coupons cashed		719,105.00
Transferred—		
General Fund	\$ 29,654.45	
Municipal Paving Rotary Fund	12,569.75	
Water Construction Fund	602,901.82	645,126.02
Balance		280,144.20
		\$ 2,931,116.74

WATER BOND SINKING FUND

Balance December 1, 1927.....		\$ 97,133.49
Received—		
Interest on bonds.....	\$ 128,699.32	
Interest on daily balance.....	801.06	
Bonds.....	88,759.02	
Payment by Water Fund.....	279,838.13	498,097.53
		\$ 595,231.02
Disbursed—		
Warrants.....		\$ 302,498.42
Bonds redeemed.....		3,000.00
Balance.....		289,732.60
		\$ 595,231.02

REDEMPTION FUND

Balance December 1, 1927.....		\$ 5,412.07
Received—		
Redemption of property.....		102,357.17
		\$ 107,769.24
Disbursed—		
Warrants.....		\$ 104,871.64
Balance.....		2,897.60
		\$ 107,769.24

ASSESSMENT COLLECTION FUND

Balance December 1, 1927.....		\$ 105,740.96
Received—		
Interest on daily balance.....	\$ 1,099.35	
Sale of property.....	258,596.30	
Refund.....	9.00	
Sale of bonds.....	150,000.00	
Warrants cashed.....	1,023.48	
Interest on warrants.....	98.80	410,826.93
Transferred—		
General Fund.....	\$ 6.10	
Sewer Fund.....	17.00	
Street Extension Fund.....	61,108.02	61,131.12
		\$ 577,699.01
Disbursed—		
Warrants.....		\$ 477,200.85
Transferred—		
General Fund.....	\$ 1,387.53	
U. S. Grant Property Sales Fund.....	181.14	
Street Extension Fund.....	61,105.18	62,673.85
Balance.....		37,824.31
		\$ 577,699.01

WOMEN'S DETENTION HOME FUND

Balance December 1, 1927.....		\$ 1,018.78
Received—		
Interest on daily balance.....		19.98
		\$ 1,038.76
Balance.....		\$ 1,038.76
		\$ 1,038.76

MUNICIPAL PAVING ROTARY FUND

Balance December 1, 1927.....		\$ 49,452.97
Received—		
Interest on daily balance.....	\$ 1,089.26	
Warrants cashed.....	56,490.98	
Interest on warrants.....	1,371.70	
Repair to pavement.....	50,694.12	
Sale of empty sacks.....	35.20	
Spur track.....	4.00	
Refunds.....	769.60	
Sale of old hoist.....	300.00	
Damage to property.....	3.75	
Sale of sand.....	34.50	110,793.11
Transferred—		
General Fund.....	\$ 115,234.76	
Water Fund.....	12,569.75	
Water Construction Fund.....	9,181.16	136,985.67
		\$ 297,231.75
Disbursed—		
Warrants.....		\$ 186,843.40
Transferred—		
General Fund.....	\$ 48,165.82	
Water Fund.....	1,999.84	
Public Auditorium Fund.....	4,000.00	54,465.66
Balance.....		55,922.69
		\$ 297,231.75

EASTMORELAND GOLF FUND

Balance December 1, 1927.....		\$	12,076.98
Received—			
Green fees, etc.....	\$	42,167.65	
Interest on daily balance.....		145.26	
Concession		900.00	
Mowing links		343.28	
Sale old barn.....		10.00	43,566.19
Transferred—			
General Fund	\$	9,297.88	
West Hills Golf Fund.....		696.30	
Rose City Golf Fund.....		2,606.62	12,600.80
			\$ 68,243.97
Disbursed—			
Warrants	\$	40,528.20	
Coupons cashed		5,310.00	
Certificates redeemed		10,000.00	55,838.20
Transferred—			
General Fund	\$	4,937.65	
Rose City Golf Fund.....		4.20	
Playgrounds and Parks Fund.....		504.06	5,445.91
Balance			6,959.86
			\$ 68,243.97

WEST HILLS GOLF FUND

Balance December 1, 1927.....		\$	2,060.52
Received—			
Green fees, etc.....	\$	9,949.27	
Interest on daily balance.....		26.06	
Forfeit check for concession.....		40.00	
Crushed rock		228.00	10,243.33
Transferred—			
General Fund			242.72
			\$ 12,546.57
Disbursed—			
Warrants			\$ 8,262.33
Transferred—			
General Fund	\$	2,002.99	
Eastmoreland Golf Fund.....		696.30	2,699.29
Balance			1,584.95
			\$ 12,546.57

ROSE CITY GOLF FUND

Balance December 1, 1927.....		\$	11,404.64
Received—			
Green fees, etc.....	\$	42,798.66	
Interest on daily balance.....		147.49	
Concession		300.00	43,246.15
Transferred—			
General Fund	\$	1,323.33	
Eastmoreland Golf Fund.....		4.20	1,327.53
			\$ 55,978.32
Disbursed—			
Warrants	\$	37,760.66	
Coupons cashed		4,200.00	
Certificates redeemed		1,000.00	\$ 42,960.66
Transferred—			
General Fund	\$	6,696.68	
Eastmoreland Golf Fund.....		2,606.62	9,303.30
Balance			3,714.36
			\$ 55,978.32

AUTO CAMP FUND

Balance December 1, 1927.....		\$	4,251.32
Received—			
Interest on daily balance.....	\$	73.65	
Dividend check		2.00	75.65
			\$ 4,326.97
Disbursed—			
Warrants			\$ 907.03
Transferred—			
General Fund			748.18
Balance			2,671.76
			\$ 4,326.97

DEPARTMENT OF FINANCE

GARBAGE CREMATORY FUND

Balance December 1, 1927.....	\$	115,864.89
Received--		
Interest on daily balance.....		542.63
Transferred--		
General Fund		5.30
	\$	<u>116,412.82</u>
Disbursed--		
Warrants	\$	105,777.13
Transferred--		
General Fund		272.29
Balance		10,363.40
	\$	<u>116,412.82</u>

U. S. GRANT PROPERTY SALES FUND

Balance December 1, 1927.....	\$	6,735.25
Received--		
Interest on daily balance.....	\$	134.71
Sale of property.....		1,560.52
Transferred--		
Assessment Collection Fund.....		181.14
	\$	<u>8,611.62</u>
Disbursed--		
Warrants	\$	350.19
Transferred--		
General Fund		17.82
Balance		7,743.61
	\$	<u>8,611.62</u>

OFFICE OF CITY TREASURER

WATER CONSTRUCTION FUND

Balance December 1, 1927.....	\$	683,468.73
Received--		
Interest on daily balance.....	\$	7,675.61
Sale of property.....		8,000.00
Repair to pavement.....		79.53
Sale of bonds.....		961,690.00
		977,445.14
Transferred--		
General Fund	\$	200,000.00
Water Fund		602,901.82
		802,901.82
		<u>\$ 2,463,815.69</u>
Disbursed--		
Warrants		\$ 1,472,251.76
Transferred--		
General Fund	\$	1,458.12
Water Fund		837,597.77
Municipal Paving Rotary Fund.....		9,181.16
		848,237.05
Balance		143,326.88
		<u>\$ 2,463,815.69</u>

BROADWAY BRIDGE FUND

Balance December 1, 1927.....	\$	5,133.12
Received--		
Interest on daily balance.....	\$	105.80
Interest on bonds.....		170.00
Bonds		4,000.00
		4,275.80
		<u>\$ 9,408.92</u>
Disbursed--		
Warrants	\$	4,014.70
Balance		5,394.22
		<u>\$ 9,408.92</u>

CIVIC EMERGENCY FUND

Balance December 1, 1927.....	\$	564.10
Received--		
Interest on daily balance.....	\$	29.12
Boxing bouts		7,844.87
Refund		255.50
		8,129.49
		<u>\$ 8,693.59</u>
Disbursed--		
Warrants	\$	7,844.73
Balance		848.86
		<u>\$ 8,693.59</u>

NELLIE ROBINSON FUND

Balance December 1, 1927.....	\$	381.46
Received—		
Interest on daily balance.....		7.66
	\$	<u>389.12</u>
Balance	\$	389.12

BRIDGE ACCESS FUND

Balance December 1, 1927.....	\$	17,232.40
Received—		
Interest on daily balance.....		111.90
Transferred—		
Bridge Access Fund No. 2.....		16,327.50
	\$	<u>33,671.80</u>
Disbursed—		
Warrants	\$	22,400.41
Transferred—		
General Fund		959.84
Balance		10,311.55
	\$	<u>33,671.80</u>

BRIDGE ACCESS FUND NO. 2

Balance December 1, 1927.....		\$	21,313.20
Received—			
Interest on daily balance.....	\$	2,612.21	
Sale of bonds.....		404,500.00	
Premium on bonds.....		19,786.55	
Refunds		12.88	
Payment of loan.....		4,052.26	430,963.90
Transferred—			
Street Extension Fund.....			31,237.89
			<u>\$ 483,514.99</u>
Disbursed—			
Warrants			\$ 64,341.73
Transferred—			
General Fund	\$	4,174.14	
Bridge Access Fund.....		16,327.50	
Street Extension Fund.....		339,000.00	359,501.64
Balance			59,671.62
			<u>\$ 483,514.99</u>

FIRE BOAT AND FIRE MAINS FUND

Balance December 1, 1927.....	\$	120.72
Received—		
Interest on daily balance.....		1.99
	\$	<u>122.71</u>
Balance	\$	122.71

HEALTH TEACHER'S FUND

Balance December 1, 1927.....		\$	1,379.68
Received—			
Interest on daily balance.....	\$	2.35	
Payment by School Board.....		13,831.49	
Refund		32.50	13,866.34
			<u>\$ 15,246.02</u>
Disbursed—			
Warrants			\$ 13,814.66
Balance			1,431.36
			<u>\$ 15,246.02</u>

MT. HOOD RAILWAY, LIGHT & POWER CO.—STREET REPAIR FUND

Balance same as December 1, 1927.....	\$	1,000.00
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POLICE TRAFFIC SIGNAL FUND

Balance December 1, 1927.....	\$	4,602.29
Received—		
Interest on daily balance.....		24.44
Transferred—		
General Fund		220.59
	\$	<u>4,847.32</u>
Disbursed—		
Warrants	\$	4,214.69
Transferred—		
General Fund		632.63
	\$	<u>4,847.32</u>

GANTRY CRANE FUND

Balance December 1, 1927.....	\$	290.71
Received—		
Interest on daily balance.....		.76
Transferred—		
General Fund .....		.20
	\$	291.67
Disbursed—		
Warrants	\$	291.67
	\$	291.67

UTILITY ELECTION FUND

Received—			
Payment by utility companies.....	\$	40,000.00	
Interest on daily balance.....		111.19	\$ 40,111.19
			\$ 40,111.19
Disbursed—			
Warrants			\$ 37,759.57
Transferred—			
General Fund			2,148.72
Balance			202.90
	\$		40,111.19

TRUSTEES FUND

Received—			
Collections			\$ 29,500.06
			\$ 29,500.06
Disbursed—			
Withdrawals			\$ 7,162.46
Balance			22,337.60
	\$		29,500.06

PAVING FUND

Balance December 1, 1927.....	\$	2,491.33
Received—		
Collection on assessments.....		102,554.11
	\$	105,045.44
Disbursed—		
Warrants	\$	104,749.98
Transferred—		
General Fund .....		.11
Balance		295.35
	\$	105,045.44

STREET IMPROVEMENT FUND

Balance December 1, 1927.....		\$	179,482.68
Received—			
Collection on assessments.....			2,179,491.89
Transferred—			
General Fund	\$	601.60	
Special Bridge Fund.....		46,304.00	
Street Extension Fund.....		13,794.69	60,700.29
			\$ 2,419,674.86
Disbursed—			
Warrants			\$ 2,233,970.49
Transferred—			
General Fund	\$	89.79	
Sewer Fund		223.08	
Street Extension Fund.....		137,304.00	
Improvement Bond Sinking Fund.....		660.35	138,277.22
Balance			47,427.15
			\$ 2,419,674.86

SEWER FUND

Balance December 1, 1927.....		\$ 67,367.10
Received—		
Collections on assessments.....		470,151.21
Transferred—		
Street Improvement Fund.....		223.08
		<u>\$ 537,741.39</u>
Disbursed—		
Warrants		\$ 527,696.97
Transferred—		
General Fund	\$ 301.28	
Assessment Collection Fund.....	17.00	
Improvement Bond Sinking Fund.....	50.45	368.73
Balance		9,675.69
		<u>\$ 537,741.39</u>

STREET EXTENSION FUND

Balance December 1, 1927.....		\$ 100,704.15
Received—		
Collections on assessments.....		176,046.70
Transferred—		
General Fund	\$ 4,780.70	
Assessment Collection Fund.....	61,105.18	
Bridge Access Fund No. 2.....	339,000.00	
Street Improvement Fund.....	137,304.00	542,189.88
		<u>\$ 818,940.73</u>
Disbursed—		
Warrants		\$ 671,400.80
Transferred—		
General Fund	\$ 1,165.24	
Assessment Collection Fund.....	61,108.02	
Bridge Access Fund, No. 2.....	31,237.89	
Street Improvement Fund.....	13,794.69	107,305.84
Balance		40,234.09
		<u>\$ 818,940.73</u>

STREET AND SEWER INTEREST FUND

Balance December 1, 1927.....		\$ 3,929.43
Received—		
Interest on assessments.....	\$ 34,232.96	
Payment by General Fund.....	11,000.00	45,232.96
Transferred—		
General Fund		51.80
		<u>\$ 49,214.19</u>
Disbursed—		
Warrants	\$ 51.10	
Interest on warrants.....	47,755.43	\$ 47,806.53
Transferred—		
Improvement Bond Interest Fund.....		12.52
Balance		1,395.14
		<u>\$ 49,214.19</u>

IMPROVEMENT BOND SINKING FUND

Balance December 1, 1927.....		\$ 86,697.56
Received—		
Collections on assessments.....		1,250,991.80
Transferred—		
Street Improvement Fund.....	\$ 660.35	
Sewer Fund	50.45	
Improvement Bond Interest Fund.....	.45	711.25
		<u>\$ 1,338,400.61</u>
Disbursed—		
Warrants	\$ 1,217.46	
Bonds redeemed	1,213,267.96	1,214,485.42
Transferred—		
Improvement Bond Interest Fund.....	\$.51	
Lighting Bond Sinking Fund.....	144.21	144.72
Balance		123,770.47
		<u>\$ 1,338,400.61</u>

IMPROVEMENT BOND INTEREST FUND

Balance December 1, 1927.....		\$ 20,011.99
Received—		
Interest on assessments.....	\$ 328,560.75	
Penalty on assessments.....	17,585.74	
Interest on daily balance.....	2,590.87	
Payment by assessment Collection Fund...	50,000.00	398,737.36
Transferred—		
Street and Sewer Interest Fund.....	\$ 12.52	
Improvement Bond Sinking Fund.....	.51	13.03
		<u>\$ 418,762.38</u>
Disbursed—		
Warrants	\$ 717.59	
Coupons cashed	400,042.86	400,760.45
Transferred—		
Sinking Fund	\$ 297.54	
Improvement Bond Sinking Fund.....	.45	
Lighting Bond Interest Fund.....	38.94	336.93
Balance		17,665.00
		<u>\$ 418,762.38</u>

LIGHTING BOND SINKING FUND

Balance December 1, 1927.....	\$ 64,829.20
Received—	
Collection on assessments.....	89,753.01
Transferred—	
Improvement Bond Sinking Fund.....	144.21
	<u>\$ 154,726.42</u>
Disbursed—	
Warrants	\$ 146,850.97
Balance	7,875.45
	<u>\$ 154,726.42</u>

LIGHTING BOND INTEREST FUND

Balance December 1, 1927.....		\$ 6,562.98
Received—		
Interest on assessments.....	\$ 18,575.34	
Penalty on assessments.....	293.82	
Interest on daily balance.....	587.66	
Interest on bonds.....	4,765.78	24,222.60
Transferred—		
Improvement Bond Interest Fund.....		38.94
		<u>\$ 30,824.52</u>
Disbursed—		
Warrants	\$.61	
Coupons	22,508.65	\$ 22,509.26
Balance		8,315.26
		<u>\$ 30,824.52</u>

IMPROVEMENT BOND SINKING FUND—LINNTON

Balance December 1, 1927.....	\$ 24.76
Received—	
Collections on assessments.....	790.03
	<u>\$ 814.79</u>
Disbursed—	
Transferred—	
Sinking Fund	\$ 810.00
Balance	4.79
	<u>\$ 814.79</u>

IMPROVEMENT BOND SINKING AND INTEREST FUND

Balance same as December 1, 1927.....	\$ 200.79
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SUMMARY

Balance per report.....	\$ 2,828,200.15	
General Fund		\$ 781,168.01
Bonded Indebtedness Interest Fund.....		238,087.17
Sinking Fund		450,649.32
Playground and Parks Fund.....		21,328.44
Special Bridge Fund.....		22,000.79
Public Auditorium Fund.....		2,585.12
Firemen's Salary Increase Fund.....		12,735.59
Policemen's Salary Increase Fund.....		9,393.22
Fire Department Construction Fund No. 2.....		85,675.79
Park and Boulevard Construction Fund.....		2,082.60
Water Fund		280,144.20
Water Bond Sinking Fund.....		289,722.60
Redemption Fund		2,897.60
Assessment Collection Fund.....		37,824.31
Women's Detention Home Fund.....		1,038.76
Municipal Paving Rotary Fund.....		55,922.69
Eastmoreland Golf Fund.....		6,959.86
West Hills Golf Fund.....		1,584.95
Rose City Golf Fund.....		3,714.36
Auto Camp Fund.....		2,671.76
Garbage Crematory Fund.....		10,363.40
U. S. Grant Property Sales Fund.....		7,743.61
Water Construction Fund.....		143,326.88
Broadway Bridge Fund.....		5,394.22
Civic Emergency Fund.....		848.86
Nellie Robinson Fund.....		389.12
Bridge Access Fund.....		10,311.55
Bridge Access Fund No. 2.....		59,671.62
Fire Boat and Fire Mains Fund.....		122.71
Health Teachers Fund.....		1,431.36
Mt. Hood Railway, Light & Power Co.— Street Repair Fund.....		1,000.00
Utility Election Fund.....		202.90
Trustees Fund		22,337.60
Paving Fund		295.35
Street Improvement Fund.....		47,427.15
Sewer Fund		9,675.69
Street Extension Fund.....		40,234.09
Street and Sewer Interest Fund.....		1,395.14
Improvement Bond Sinking Fund.....		123,770.47
Improvement Bond Interest Fund.....		17,665.00
Lighting Bond Sinking Fund.....		7,875.45
Lighting Bond Interest Fund.....		8,315.26
Improvement Bond Sinking Fund—Linnton.....		4.97
Improvement Bond Sinking and Interest Fund		200.79
	\$ 2,828,200.15	\$ 2,828,200.15

Respectfully submitted,

WILLIAM ADAMS, CITY TREASURER.

PAVING FUND

Balance per report.....	\$ 295.35	
Fremont St., Williams Ave. to E. 8th St.....		\$ 9.71
E. 16th St., Marion Ave. to Linn Ave.....		9.99
Albina Ave., Ainsworth Ave. to Lombard St.....		224.00
Multnomah St. et al Dist. 126.....		51.65
	\$ 295.35	\$ 295.35

STREET IMPROVEMENT FUND

Balance per report.....	\$ 47,427.15	
19th St., Overton St. to Wilson St.....		\$.77
Tillamook St., E. 14th St. to E. 24th St.....		.07
Front St. Fill at Lane St.....		5.20
Hood St. Fill at Sheridan St.....		.60
Corbett St. Fill at Pennoyer St.....		3.00
Corbett St. Fill at Grover St.....		3.95
Mason St. et al.....		.02
Lombard St., Westanna St. to Wabash St....		.25
Corbett St. at Terwilliger Homestead.....		3,310.18
Brandon St., Lombard St. to Argyle St.....		1,000.00
Concord St., Prescott St. to Humboldt St....		48.57
Hillside Blvd. First Extension.....		244.39
1st St., Condon St. and Harrison St. Dist.....		.32
Hillside Blvd., Linnton.....		96.97
Lincoln St. et al Dist. 453.....		2.20
Burlington St., Bradford St. to St. Johns 2nd Add.....		49.60
Jessup St., Willamette Blvd. to Delaware St.		.08
Fessenden St., Oswego St. to Smith Ave.....		58.50
Elimination O-W. R. R. & N. Grade Crossings		20,371.23
E. 78th St., North Villa to Oregon St.....		517.10
70th St. S.E., 63rd Ave. S. E. to 65th Ave. S. E.		.80
E. Burnside St., E. 82nd St. to E. 90th St....		5.68
Foster Road and Powell Valley Road Dist. 536		.72
Cora Ave., E. 37th St. to 42nd St. S. E.....		2.15
Baldwin St., Peninsular Ave. to Burrage St..		3.30
Corbett St., Texas St. to Nebraska St.....		6.07
Whitman Ave. S. E., 72nd St. S. E. to 68th St. S. E.....		.20
Oregon St., S. 63rd St. to E. 65th St.....		6.70
E. 75th St., Siskiyou St. to Sandy Blvd.....		.10
Winchell St., Chautauqua Blvd. to Woolsey St.....		20.56
Bowdoin St., McKenna Ave. to Portsmouth Ave.....		11.23
Montana Ave. et al Dist. 530.....		.95
Tyler St., Lombard St. to Fessenden St.....		16.18
E. 33rd St., Tillamook St. to Fremont St.....		5.00
67th St. S. E., Woodstock Ave. to 55th Ave. S. E.....		10.89
Mears St., Midway Ave. to Macrum Ave.....		151.99
E. 45th St. et al Dist. 54.....		2.96
Cardinell Drive, Cardinell Park to College St.		352.99
Farragut St., Peninsular Ave. to Burrage St.		13.87
Baldwin St., Wabash Ave. to Emerald St.....		3.16
Chapman St., Jefferson St. to Taylor St.....		54.42
Miller Ave., E. 16th St. to E. 21st St.....		34.06
Terwilliger Ave. and 1st St. Dist. 22.....		4.70
E. 76th St. and Stanton St. Dist. 56.....		21.75
Flavel Ave., Eastmoreland to Berkeley.....		47.42
E. 52nd St., E. Burnside St. to E. Glisan St..		.05
Haven St., Willamette Blvd. to Lombard St..		.05
Atlantic St. et al Dist. 16.....		32.86
Arlington Place, Emerald St. to Peninsular Ave.....		3.60
E. 57th St., E. Burnside St. to E. Everett St..		338.26
Mohawk St., Smith Ave. to Fessenden St.....		.68
E. 18th St. et al Dist. 36.....		1.55
1st St. and C St. St. 68.....		98.85
E. 39th St., Halsey St. to Thompson St.....		227.98
Houghton St., Wall St. to Portsmouth Ave....		77.66
Macadam St., Dakota St. to Virginia St.....		8.17

STREET IMPROVEMENT FUND—Continued

50th Ave. S. E., 60th St. S. E. to Arleta Park No. 3	\$	.05
E. 77th St., Siskiyou St. to Sandy Blvd.		247.85
Killingsworth Ave., E. 16th St. to E. 30th St.		3.84
Jersey St. et al Dist. 77		500.00
Mill St. et al Dist. 75		12.50
E. Burnside St. et al Dist. 79		438.28
Vista Ave., Madison St. to Market St. Drive		70.89
Upper Drive at Smiths Add.		224.20
E. 7th St., Woodlawn Hts. to Magnolia St.		47.21
E. Everett St., E. 78th St. to E. 79th St.		.01
Thompson St., E. 82nd St. to E. 90th St.		7.16
Jarrett St., E. 27th St. to E. 30th St.		189.97
E. 16th St., Killingsworth Ave. to Ainsworth Ave.		16.30
E. 72nd St., E. Glisan St. to Multnomah St.		45.87
Pettygrove St., 26th St. to 27th St.		125.00
Woods St. Fill, 1st St. to Corbett St.		7.00
Going St., E. 29th St. to E. 30th St.		42.36
Lombard St., Albina Ave. to Union Ave.		.58
E. Sherman St., E. 46th St. to E. 47th St.		55.81
49th St. S. E., 34th Ave. S. E. to 33rd Ave. S. E.		20.80
Ramona Ave., E. 39th St. to 41st St. S. E.		2.00
E. 62nd St., E. Glisan St. to Oregon St.		.04
E. Clay St., E. 76th St. to E. 80th St.		5.00
Corbett St. et al Dist. 96		6.65
Ogden Ave. and 72nd Ave. S. E. Dist. 24		160.00
E. Hoyt St., E. 49th St. to E. 52nd St.		37.36
Winchell St., Washburne St. to Wabash Ave.		12.02
42nd Ave. S. E., 52nd St. S. E. to Foster Road		.09
E. 55th St., E. Couch St. to E. Davis St.		56.89
64th St. S. E., 50th Ave. S. E. to Foster Road		2.58
75th St. S. E., Division St. to 29th Ave. S. E.		106.13
Oregonian Ave., Columbia Blvd. to Armour St.		17.44
Campaign St. et al Dist. 105		20.36
Kenilworth Ave. et al Dist. 110		.02
Oatman Ave. et al Dist. 122		9.36
41st Ave. S. E., 67th St. S. E. to 70th St. S. E.		200.00
45th Ave. S. E., 65th St. S. E. to 67th St. S. E.		100.00
Morrison St., Willamette River to Washington St.		.20
Sandy Blvd., E. 72nd St. to E. 82nd St.		1.00
E. 15th St., Pershing St. to Powell St.		.10
Midway Ave., Fessenden St. to Bellingham St.		8.98
E. 33rd St., Webster St. to Columbia Slough Road		6.21
Front St. S., Porter St. to Fiske St.		.10
10th St. Lighting, Hoyt St. to Jefferson St.		11.18
57th St. S. E., 44th Ave. S. E. to 42nd Ave. S. E.		593.46
Emeretta St., Lombard St. to Russett St.		.36
Goldsmith St., Russell St. to End of Bridge		4.00
64th St. S. E., Division St. to 28th Ave. S. E.		14.20
Alder St. Lighting, 3rd St. to Chapman St.		.20
California St., Corbett St. to 260 feet east		44.80
E. 30th St., Knott St. to Siskiyou St.		74.00
Bryant St., Villard St. to Greeley St.		442.35
Dekum Ave., Cleveland Ave. to Union Ave.		132.35
E. 39th St., Killingsworth Ave. to Emerson St.		14.40
E. 72nd St., Knott St. to Siskiyou St.		80.59
Missouri Ave., Sumner St. to Emerson St.		218.43
43rd St. S. E. et al Dist. 8		4.81
E. 78th St., Siskiyou St. to Sandy Blvd.		9.03

STREET IMPROVEMENT FUND—Continued

45th Ave. S. E., 70th St. S. E. to 72nd St. S. E.	\$	208.49
Baldwin St., Chautauqua Blvd. to Washburne St.		5.75
Siskiyou St. et al Dist. 50		7.74
Montana Ave., Fremont St. to Cook Ave.		28.75
Baldwin St., Minnesota Ave. to Mississippi Ave.		11.80
Greenwich St., Portland Blvd. to Dekum Ave.		177.76
Mall St., E. 39th St. to 42nd St. S. E.		14.50
Mississippi Ave., Jessup St. to Ainsworth Ave.		36.05
Bryce Ave. et al Dist. 119		196.39
Alameda Drive et al Dist. 133		67.20
E. 15th St., Killingsworth Ave. to Ainsworth Ave.		333.73
Vancouver Ave. Grade Crossings		7,328.34
Hyde St., E. 9th St. to E. 10th St.		2.29
Jarrett St., E. 11th St. to E. 12th St.		30.76
Klickitat St., E. 65th St. to E. 68th St.		46.58
Mississippi Ave., Killingsworth Ave. to Jessup St.		180.20
Weidler St., E. 42nd St. to Ralstons Add.		45.14
E. 22nd St., Prescott St. to Wygant St.		90.92
28th Ave. S. E., 41st St. S. E. to 45th St. S. E.		51.54
40th Ave. S. E., 45th St. S. E. to 47th St. S. E.		74.65
61st St. S. E., 50th Ave. S. E. to 45th Ave. S. E.		126.43
E. 84th St., Base Line Road to E. Burnside St.		64.16
42nd Ave. S. E., 67th St. S. E. to 70th St. S. E.		4.11
E. Caruthers St., E. 37th St. to Swan Add.		54.94
Klickitat St., E. 63rd St. to E. 64th St.		24.89
45th St. S. E., 67th Ave. S. E. to Woodstock Ave.		673.23
E. 65th St., Failing St. to Skidmore St.		67.56
E. 70th St., E. Yamhill St. to E. Morrison St.		19.70
50th St. S. E., 53rd Ave. S. E. to 50th Ave. S. E.		191.30
Klickitat St., E. 57th St. to E. 61st St.		56.48
Clarendon St., Willis Blvd. to Houghton St.		313.71
E. Couch St. et al Dist. 142		81.55
E. 42nd St., Fremont St. to Killingsworth Ave.		211.44
E. 76th St., Siskiyou St. to Sandy Blvd.		71.21
Dekum Ave., Boston Ave. to Newcastle St.		41.09
Dekum Ave., Newcastle St. to Denver Ave.		21.28
E. 79th St., Sandy Blvd. to Siskiyou St.		20.52
Chicago St., Jersey St. to Smith St.		271.42
Siskiyou St., E. 67th St. to E. 72nd St.		88.60
E. Burnside St. Re-assessment		156.53
Highland St., E. 18th St. to E. 22nd St.		76.68
Kellogg St., Buchanan St. to Burr St.		140.05
Morris St., E. 70th St. to E. 72nd St.		18.54
Klickitat St. and E. 56th St. Dist. 140		120.83
E. 31st St., Sandy Blvd. to Clackamas St.		88.03
Willis Blvd., Portsmouth Ave. to Hodge St.		23.69
4th St., Miles St. to Crook St.		312.34
E. 11th St., Ainsworth Ave. to Holman St.		183.57
Wasco St., E. 47th St. to Euclid Hts.		65.55
Atlantic St., Portland Blvd. to Burrage Tr.		64.20
Harney Ave., E. 7th St. to E. 8th St.		138.07
Ivanhoe St., Buchanan St. to Alma St.		699.94
Leland St., E. 17th St. to E. 22nd St.		78.44
Holland St. et al Dist. 109		213.38
Fortune St., Lombard St. to Houghton St.		115.45
E. 22nd St. and Gladstone Ave. Dist. 37		534.81
E. 14th St., Malden Ave. to Bybee Ave.		163.43

STREET IMPROVEMENT FUND—Continued

E. Couch St., E. 53rd St. to E. 55th St.....	\$	154.38
E. Hoyt St., E. 52nd St. to E. 53rd St.....		310.47
E. 16th St., Ogden Ave. to Bybee Ave.....		250.47
E. 73rd St., Failing St. to Mason St.....		424.61
	\$	47,427.87
Deficit .....		.72
	\$	47,427.15

SEWER FUND

Balance per report.....	\$	9,675.69
33rd Ave. S. E. and 60th St. S. E. Dist. 92.....	\$	6.15
Holgate Dist.		2,481.05
Rhine St. Dist.....		1.95
E. Stark St., Trunk No. 2.....		208.50
E. Stark St., Trunk No. 1.....		20.16
Canyon Road Dist. 80.....		2.40
Water St. and Mill St. Dist.....		5.07
Union Ave. and Portland Blvd. Dist. 121.....		.51
E. 13th St. Trunk.....		370.45
Lents Trunk.....		629.39
Albina Ave. Trunk.....		1.00
Killingsworth Ave. and E. 19th St. Dist. 119A.....		9.81
Rural Ave., 41st Ave. S. E. to Eastmoreland.....		120.70
Columbia Channel		4.94
Campbell St. at Portland Blvd.....		8.72
E. 33rd St. and Stafford St. Dist.....		32.90
Morse St. Trunk Dist. 164.....		6.15
Delaware Ave. and Kenton Blvd. Dist. 56.....		48.50
Missouri Ave. and Morgan St. Dist. 151.....		.55
Foster Road Trunk.....		48.00
E. 26th St. and Ainsworth Ave. Dist. 7.....		6.15
E. 55th St. and Private Property.....		1.00
74th St. S. E., 45th Ave. S. E. to Foster Road.....		.80
E. 34th St. and North St. Dist. 35.....		21.00
72nd St. S. E., 45th Ave. S. E. to Foster Road.....		69.04
45th Ave. S. E., 60th St. S. E. to Foster Road.....		.06
Grand Ave., Portland Blvd. to Morgan St.....		97.90
Riverside Dist.		5.00
Tanner Creek		114.32
E. 79th St. and Oregon St. Dist. 85.....		77.08
65th Ave. S. E. and 89th St. S. E. Dist. 79.....		6.40
45th Ave. S. E. and 58th St. S. E. Dist. 65.....		14.70
Bank St. and Calhoun St. Dist. 62.....		4.40
Iowa St.		2,096.15
Oswego St. Trunk.....		110.95
45th Ave. S. E. and 74th St. S. E. Dist. 108.....		22.30
Haven St., Willamette Blvd. to Lombard St.....		2.57
74th St. S. E. and Powell Valley Rd. Dist. 5.....		2.76
St. Johns Ave. and James St. Dist. 118.....		6.00
86th St. S. E. and Woodstock Ave. Dist. 106.....		23.10
Powell Valley Road, 65th St. S. E. to 59th St. S. E.		37.96
Mohawk St. and Fessenden St. Dist. 117.....		8.90
Morris St., E. 36th St. Dist. 6.....		732.34
Extension North Branch Rhine St. Dist. 114.....		.29
Fox St., Myers St. to Oswego St.....		.72
Fiske St. and Private Property Dist. 80.....		3.55
Extension Woods St. Gulch.....		4.45
E. 21st St. and Nehalem Ave. Dist. 27.....		9.00
E. 42nd St. and Holman St. Dist. 42.....		28.80
Holland St., Montana Ave. to Albina Ave.....		3.20
Holland St., Union Ave. to E. 8th St.....		9.60
55th Ave. S. E. and 67th St. S. E. Dist. 46.....		19.76
Greenwich St., Portland Blvd. to Dekum Ave.....		8.65
Killingsworth Ave. and E. 37th St. Dist. 34.....		704.53
E. 58th St. and Hancock St. Dist. 67.....		65.85
Clarendon St., Lombard St. to Hudson St.....		47.65
Chicago St., Kellogg St. to Central Ave.....		37.71
Concord St., Portland Blvd. to Lombard St.....		120.89
Ivanhoe St., Burr St. to Buchanan St.....		14.07
Maryland Ave., Portland Blvd. to Dekum Ave.....		54.70
Tacoma Ave. et al Dist. 63.....		.05

SEWER FUND—Continued

Bowdoin St., Van Houten St. to McKenna Ave.	\$	19.09
Oberlin St., Van Houten St. to McKenna Ave.		38.06
62nd Ave. S. E., 42nd St. S. E. to 39th St.		43.93
E. Madison St., E. 73rd St. to E. 78th St.		221.48
50th St. S. E. and 38th Ave. S. E. Dist. 122....		273.96
Denver Ave. and Dekum Ave. Dist. 73.....		392.47
66th St. S. E., 55th Ave. S. E. to 50th Ave. S. E.		35.45
	\$	9,675.69
	\$	9,675.69

STREET EXTENSION FUND

Balance per report.....	\$	40,234.09
29th Ave. S. E. at 52nd St. S. E.	\$	1.00
Ladd Ave. et al Dist.		1,053.95
E. 27th St., East Moreland Hts. to Ellsworth.		117.80
E. 17th St., Midway to Yukon Ave.		16.50
E. Burnside St. and Gilham Ave.		630.26
Kellogg St., Bruce St. to St. Johns Ave.		50.40
Delay St., Larrabee St. to Russell St.		4.40
E. 75th St., 40th Ave. S. E. to 45th Ave. S. E.		150.52
Holman St., E. 37th St. to City Boundary....		110.00
E. Burnside St., Willamette River to 3rd St.		706.72
E. Grant St., Kenilworth Ave. to E. 30th St.		13.70
Glisan St., 3rd St. to 4th St.		30.20
Lombard St., Swinton to Vancouver Ave.		996.98
E. Couch St., E. 47th St. to E. 50th St.		100.83
33rd Ave. S. E. et al Dist. 35.....		472.30
E. 17th St., South Ave. to Harold Ave.		367.97
Powell St. and Powell Valley Road Dist. 39....		462.17
Corbett St. et al Dist. 40.....		244.73
Interstate Ave. et al Dist.		760.74
Bryant St., Union Ave. to E. 8th St.		17.54
New St., Baneroff Ave. to Portland Home- stead		375.00
E. 28th St., Brooklyn St. to Woodward Ave.		13.51
E. Burnside St. et al Dist. 41.....		1,544.43
3rd St. et al Dist. 46.....		504.58
Morris St., E. 70th St. to E. 72nd St.		1.37
E. Burnside St., E. 44th St. to E. 55th St.		31.74
Arthur St., 2nd St. to 3rd St.		9.33
E. Broadway et al Dist. 45.....		10,703.86
Woodstock Ave., 69th St. S. E. to 100th St. S. E.		6,670.98
Lovejoy St. et al Dist. 134.....		25.00
E. 38th St., Holman St. to Oregon Heights....		228.70
E. Burnside St. and E. 73rd St. Dist. 47....		5,113.91
E. 72nd St., Slumans Add to E. Alder St.		554.10
Vancouver Ave. Grade Crossings.....		2,556.31
Foster Road Widening.....		50.00
52nd St. S. E., 29th Ave. S. E. to Division St.		861.69
E. Glisan St., E. 16th St. to E. 21st St.		4,680.87
	\$	40,234.09
	\$	40,234.09

BUREAU OF PARKS

Portland, Oregon, December 1, 1928.

HONORABLE STANHOPE S. PIER, COMMISSIONER OF FINANCE:

Dear Sir: I am submitting herewith the annual reports of the Bureau of Parks for the fiscal year of 1928, comprising tabular data as follows:

Appropriation Statement.
Distribution of Expenditures.
Financial Statements—
Eastmoreland Golf Links.
Rose City Golf Links.
West Hills Golf Links.
Attendance Reports—
Eastmoreland Golf Links.
Rose City Golf Links.
West Hills Golf Links.
Playgrounds.
Swimming Tanks.
Community Buildings.
Comfort Stations.
List of Park Properties.

Also submitted is Progress Report of Superintendent of Parks for the year 1928.

Very truly yours,

C. P. KEYSER,
SUPERINTENDENT OF PARKS.

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927,
TO NOVEMBER 30, 1928

SUMMARY

	Appropriation	Total Encumbrance	Balances
Executive and Clerical—			
Personal Service.....	\$ 19,610.00	\$ 19,590.03	\$ 19.97
Operation and Maintenance.....	3,000.00	2,999.86	.14
Equipment.....	2,200.00	2,196.48	3.52
Park Maintenance—			
Personal Service.....	166,194.35	166,193.46	.89
Operation and Maintenance.....	24,565.35	24,132.06	433.29
Motor Equipment.....	532.65	532.65	
Other Equipment.....	4,270.00	4,263.04	6.96
Mt. Scott Cemetery.....	1,000.00	999.92	.08
Rose Medals.....	25.00	22.10	2.90
Playground Maintenance—			
Personal Service.....	41,481.00	41,480.97	.03
Operation and Maintenance.....	6,820.00	6,757.96	62.04
Equipment.....	3,550.00	3,546.63	3.37
Music.....	2,200.00	2,192.75	7.25
Swimming Tank Maintenance—			
Personal Service.....	8,439.50	8,439.50	
Operation and Maintenance.....	603.60	583.79	19.81
Equipment.....	114.40	114.40	
Comfort Station Maintenance—			
Personal Service.....	24,237.00	24,235.00	2.00
Operation and Maintenance.....	9,576.99	9,623.50	*16.51
Equipment.....	83.01	80.01	3.00
Street Trees—			
Personal Service.....	1,316.50	1,316.50	
Operation and Maintenance.....	844.00	843.02	.98
Equipment.....	6.00	5.60	.40
Zoo—			
Personal Service.....	5,466.75	5,466.73	.02
Operation and Maintenance.....	3,860.00	3,869.06	*9.06
Totals.....	\$ 329,996.10	\$ 329,485.02	\$ 511.08
Total Personal Service.....	\$ 266,745.10	\$ 266,722.19	\$ 22.91
Total Operation and Maintenance.....	63,251.00	62,762.83	488.17
Grand Totals.....	\$ 329,996.10	\$ 329,485.02	\$ 511.08
Playgrounds and Parks Fund.....	\$ 114,971.07	\$ 104,565.63	\$ 10,375.44
Park and Boulevard Construction Fund.....	1,628.24		1,628.24
Auto Camp Fund.....	2,627.48	1,945.94	681.54
Eastmoreland Golf Fund.....	52,030.00	51,333.34	696.66
Rose City Golf Fund.....	49,602.50	46,802.52	2,799.98
West Hills Golf Fund.....	18,678.45	10,064.78	8,613.67
Totals.....	\$ 569,533.84	\$ 544,227.23	\$ 25,306.61

PRIOR YEAR'S BUSINESS

Park Maintenance—			
General Plant Material.....	C-4		\$ 288.52
Playground Maintenance—			
General Plant Material.....	C-4	\$ 12.85	13.34
Music.....		.49	
Comfort Stations—			
Light, Heat and Power.....	E-4		177.80
Total.....			\$ 479.66

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928

Accounts		Appropriation	Total Ex- cumbance	Balance	Claims Paid	Outstanding Claims
Executive and Clerical—						
Personal Service.....	A- 1	\$ 19,610.00	\$ 19,500.03	\$ 19.97	\$ 18,769.53	
	A- 2	3,000.00			820.50	
Operation and Maintenance—						
Supplies—						
Office.....	B- 1	\$ 986.80				
Food.....	B- 4	6.05				
Motor.....	B- 6	749.11				
General.....	B- 10	231.24	\$ 1,973.20			
Repairs—						
General.....	E- 2	\$ 140.60				
Motor.....	E- 3	317.84	\$ 458.44			
Other Transportation.....	E- 6-F		\$ 490.62			
Telephone and Telegraph—						
Telephone.....	E- 7-A	20.00				
Telegraph.....	E- 7-B	15.10				
General Plant Service.....	E- 8	12.50				
Other Fixed Charges.....	G- 6	30.00	2,909.80	.14	2,909.80	
Equipment.....						
Office.....	D- 1	71.25				
Motor.....	D- 5	2,117.23	2,196.48	3.52	2,196.48	
General.....	D- 8	8.00				
Totals.....		\$ 24,810.00	\$ 24,786.37	\$ 23.03	\$ 24,786.37	

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts		Appropriation	Total Ex- cumbance	Balance	Claims Paid	Outstanding Claims
Park Maintenance—						
Personal Service.....	A- 1	\$ 166,194.35	\$ 166,193.46	\$.89	\$ 166,178.46	
	A- 2	24,565.35			15.00	
Operation and Maintenance—						
Supplies—						
Fuel.....	B- 2	\$ 712.06				
Forage.....	B- 3	2,073.32				
Food.....	B- 4	76.42				
Cleaning.....	B- 5	865.64				
Motor.....	B- 6	1,790.87				
Botanical.....	B- 7	2,279.81				
Medical.....	B- 9	2.82				
General.....	B- 10	3,075.14	\$ 10,876.08			
Material—						
Highway.....	C- 1	\$ 486.31				
Drain.....	C- 2	255.62				
Building.....	C- 3	162.90				
General.....	C- 4	2,431.00	\$ 3,324.92			
Repairs—						
General.....	E- 2	\$ 7,254.05				
Motor.....	E- 3	852.61	\$ 8,106.96			
Junitorial.....	E- 5	523.00				
Horseshoeing.....	E- 6-D	270.25				
Car Tickets.....	E- 6-E	73.00				
Other Transportation.....	E- 6-F	1.00				
General Plant Service.....	E- 8	195.05				
Contingencies.....	V	434.15				
Rent.....	G- 2	60.00	24,132.06	433.29	23,865.10	\$ 266.96
Equipment—						
Motor.....	D- 5	532.65	532.65		532.65	
Other Equipment.....	D- 3	4,270.00				
Household.....	D- 4	99.47				
Motorless.....	D- 4	2.65				
Recreational.....	D- 6	447.81				
Tools.....	D- 7	3,702.98	4,263.04	6.96	4,263.04	
General.....	D- 8					
Mt. Scott Cemetery.....		1,000.00	999.92	.08	999.92	
Rose Medals.....		25.00	22.10	2.90	22.10	
Totals.....		\$ 196,587.35	\$ 196,143.23	\$ 444.12	\$ 195,870.27	\$ 296.96

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts			Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Playground Maintenance—							
Personal Service..... A-1			\$ 41,481.00	\$ 41,480.97	.03	\$ 41,480.97	
Operation and Maintenance.....			6,820.00				
Supplies—							
Fuel..... B-2	\$ 560.86						
Forage..... B-3	4.08						
Cleaning..... B-5	104.43						
Motor..... B-6	81.10						
Botanical..... B-7	2.88						
Education and Recreation..... B-8	1,179.77						
Medical..... B-9	76.71						
General..... B-10	1,890.83	\$ 3,900.66					
Material—							
Building..... C-3	\$ 3.14						
General..... C-4	1,965.27	1,968.41					
Repairs—							
General..... E-2	\$ 227.78	285.28					
Motor..... E-3	57.50						
Light, etc..... E-4		98.94					
Janitorial..... E-5		25.95					
Car Tickets..... E-6		131.25					
General Plant..... E-8		282.72		62.04		6,757.96	6,757.96
Rent..... G-2		\$ 64.75					
Equipment.....			3,550.00				
Office..... D-1		52.00					
Motor..... D-5		245.66					
Education and Recreation..... D-6		2.03					
Tools..... D-7		3,246.27					
General..... D-8			2,200.00			3,546.63	3,546.63
Music.....						2,192.75	2,192.75
Totals.....			\$ 54,051.00	\$ 53,978.31	\$ 72.69	\$ 53,978.31	

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts			Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Swimming Tank Maintenance—							
Personal Service..... A-1			\$ 8,439.50	\$ 8,439.50		\$ 8,439.50	
Operation and Maintenance.....			603.60				
Supplies—							
Fuel..... B-2	\$ 170.68						
Cleaning..... B-5	.17						
Motor..... B-6	48.00						
Education and Recreation..... B-8	3.80						
Medical..... B-9	254.21	\$ 477.06					
General..... B-10							
Material—							
Building..... C-3	\$ 33.00						
General..... C-4	54.73	\$ 87.73					
General Repairs..... E-2		19.90					
Janitorial..... E-5						583.79	583.79
General Plant Equipment..... D-8			114.40	114.40		114.40	
Totals.....			\$ 9,157.50	\$ 9,137.69	\$ 19.81	\$ 9,137.69	
Comfort Station Maintenance—							
Personal Service..... A-1			\$ 24,237.00	\$ 24,235.00	\$ 2.00	\$ 24,235.00	
Operation and Maintenance.....			9,576.99				
Supplies—							
Cleaning..... B-5	\$ 3,167.77	\$ 3,408.19					
General..... B-10	330.42						
General Plant Material..... C-4		88.94					
General Repairs..... E-2		735.84					
Light, etc..... E-4		1,321.52					
Janitorial..... E-5		339.01					
Rent..... G-2		3,540.00					
Equipment..... D-7			85.01	9,623.50	*46.51	9,523.50	100.00
Tools..... D-7				80.01	3.00	80.01	
General..... D-8							
Totals.....			\$ 33,867.00	\$ 33,938.51	\$ *41.51	\$ 33,898.51	\$ 100.00

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FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts		Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Street Trees—						
Personal Service..... A- 1		\$ 1,316.50	\$ 1,316.50		\$ 1,316.50	
Operation and Maintenance.....		844.00				
Supplies—						
Motor..... B- 6	\$ 142.67					
Botanical..... B- 7	612.89					
General..... B-10	2.36					
	\$ 757.92					
General Plant Material..... C- 4	.52					
Repairs—						
General..... E- 2	\$ 45.06					
Motor..... E- 3	39.52					
Equipment.....		6.00				
Totals.....		\$ 2,166.50	\$ 2,165.12	\$ 1.38	\$ 2,165.12	
Zoo—						
Personal Service..... A- 1		\$ 5,466.75	\$ 5,466.73	\$.02	\$ 5,466.73	
Operation and Maintenance.....		3,860.00				
Supplies—						
Fuel..... B- 2	\$ 190.44					
Forage..... B- 3	3,436.88					
Food..... B- 4	16.00					
Cleaning..... B- 5	15.48					
General..... B-10	2.91					
	\$ 3,661.71					
Sewer Material..... C- 2	\$ 4.25					
General Plant Material..... C- 4	43.03					
General Repairs..... E- 2	46.50					
Other Transportation..... E- 6-F	49.57					
General Plant Equipment..... D- 8	9.00					
Totals.....		\$ 9,326.75	\$ 9,315.79	\$ *.04	\$ 9,280.79	\$ 55.00

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts		Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Auto Camp—Balance Brought Forward.....		\$ 2,027.48	\$ 1,945.94	\$ 681.54	\$ 1,945.94	
Park and Boulevard Construction—						
Balance Brought Forward.....		\$ 1,028.24		\$ 1,028.24		
Eastmoreland Golf Links—						
Personal Service..... A- 1		\$ 25,147.25	\$ 24,671.05	\$ 476.20	\$ 24,671.05	
Operation and Maintenance.....		26,882.75				
Supplies—						
Fuel..... B- 2	\$ 269.16					
Forage..... B- 3	509.73					
Cleaning..... B- 5	82.00					
Motor..... B- 6	407.25					
Botanical..... B- 7	1,405.27					
Medical..... B- 9	68.68					
General..... B-10	1,382.86					
	\$ 4,057.34					
Ball Credit*.....	*1,365.97					
Material—						
Drain..... C- 2	\$ *122.15					
Building..... C- 3	9.06					
General..... C- 4	646.03					
	\$ 877.24					
Equipment—						
Motorless..... D- 4	\$ 2.00					
Motor..... D- 5	22.00					
Tools..... D- 7	38.25					
General..... D- 8	823.02					
	\$ 925.27					
Repairs—						
General..... E- 2	\$ 283.36					
Motor..... E- 3	144.18					
	\$ 427.54					
Light, Etc..... E- 4	68.24					
Janitorial..... E- 5	11.71					
Telephone..... E- 7-A	76.76					
Contingencies..... F	48.75					
Rent..... G- 2	30.00					
Horseshoeing..... E- 6-D	37.50					
Insurance..... G- 4	119.67					
Interest..... G- 1-A	5,310.00					
Redemption..... G- 1-B	10,000.00					
Other Fixed Charges..... G- 6	4,369.55					
Real Estate..... H	2,050.00					
Totals.....		\$ 52,080.00	\$ 51,333.34	\$ 696.66	\$ 51,333.34	

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts	Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Rose City Golf Links—					
Personal Service..... A-1	\$ 25,412.50	\$ 25,412.50		\$ 25,412.50	
Operation and Maintenance	9,600.00				
Supplies—					
Fuel..... B-2	7.50				
Forage..... B-3	476.83				
Food..... B-4	93.76				
Cleaning..... B-5	59.73				
Motor..... B-6	274.21				
Botanical..... B-7	2,124.04				
Medical..... B-9	1.79				
General..... B-10	981.89				
	\$ 4,019.75				
Ball Credit*	*1,138.90				
Material—					
Drain..... C-2	35.76				
General..... C-4	503.58				
Equipment—					
Motorless..... D-4	2.55				
Tools..... D-7	50.22				
General..... D-8	2,384.48				
Repairs—					
General..... E-2	360.67				
Motor..... E-3	146.03				
Light, Etc..... E-4					
Horseshoeing..... E-6-D	92.72				
Telephone..... E-7-A	12.14				
Other Fixed Charges..... E-7-A	83.71				
Insurance..... G-0	2,410.50				
	7.17				
Totals.....	\$ 35,102.50	\$ 31,367.94	\$ 734.56	\$ 8,955.44	

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts	Appropriations	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Rose City Extension..					
Personal Service..... A-1	\$ 14,500.00	\$ 3,757.76		\$ 3,757.76	
		572.00		572.00	
Supplies—					
Forage..... B-3	86.06				
Motor..... B-6	66.55				
Botanical..... B-7	125.00				
General..... B-10	4.10				
	\$ 282.61				
Material—					
Drain..... C-2	133.36				
Building..... C-3	803.89				
General..... C-4	492.40				
	\$ 1,429.65				
Equipment—					
Motorless..... D-4	.52				
General..... D-8	12.14				
	\$ 12.66				
Construction..... E-1	788.45				
General Repairs..... E-2	78.12				
Horseshoeing..... E-6-D	1.33				
Interest..... G-1-A	4,200.00				
Redemption..... G-1-A	1,000.00				
Real Estate..... H	312.00				
Totals.....	\$ 14,500.00	\$ 12,434.58	\$ 2,065.42	\$ 8,104.82	
				\$ 12,434.58	

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts		Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
West Hills Golf Links—						
Personal Service..... A- 1		\$ 15,678.45	\$ 8,370.68	\$ 7,307.77	\$ 8,370.68	
Operation and Maintenance.....		3,000.00				
Supplies—						
Forge..... B- 3	\$ 152.61					
Food..... B- 4	254.08					
Cleaning..... B- 5	14.61					
Medical..... B- 9	98					
Motor..... B- 6	173.96					
Botanical..... B- 7	130.82					
General..... B-10	231.97	\$ 957.83				
Ball Credit*.....		*231.57				
Material—						
Highway..... C- 1	\$ 268.00					
General Plant..... C- 4	108.28	376.28				
Equipment—						
Motorless..... D- 4	\$ 1.78					
Tools..... D- 7	13.60					
General..... D- 8	87.33	102.71				
Repairs—						
General..... E- 2	\$ 102.69					
Motor..... E- 3	139.43	242.12				
Light..... E- 4		30.26				
Horsehoing..... E- 6-D		5.18				
Telephone..... E- 7-A		54.15				
Construction..... E- 1		150.00	1,694.10	1,305.90	1,694.10	
Insurance..... G- 4		7.16				
Totals.....		\$ 18,678.45	\$ 10,064.78	\$ 8,613.67	\$ 10,064.78	
Golf Fund Rotary.....		\$ 1,966.95	\$ *104.58	\$ 2,071.53	\$ *104.58	

BUREAU OF PARKS

FINANCIAL STATEMENT BUREAU OF PARKS—DECEMBER 1, 1927, TO NOVEMBER 30, 1928—Continued

Accounts		Appropriation	Total Encumbrance	Balance	Claims Paid	Outstanding Claims
Playgrounds and Parks.						
All Parks.....	\$ 4,667.94	\$ 114,971.07				
Buckman.....	13,997.46					
Creston.....	3,367.78					
Columbia.....	25,507.01					
Dunway.....	217.72					
W. Lair Hill.....	3,419.69					
Fulton.....	971.77					
Gammans.....	837.66					
Belmont.....	107.66					
Irving.....	992.26					
Lents.....	707.79					
Maclay.....	2,657.56					
Mt. Tabor.....	9,920.74					
Overlook.....	364.47					
Patton.....	3.00					
Pier.....	11,645.12					
Powell.....	1,260.86					
Sellwood.....	1,870.44					
U. S. Grant.....	159.48					
Washington.....	10,841.13					
Rose City.....	3,341.74					
Mt. Scott.....	782.02					
Terwilliger Blvd.....	108.20					
Woodstock.....	27.55					
Totals.....		\$ 114,971.07	\$ 104,565.63	\$ 10,375.44	\$ 97,776.43	\$ 6,819.20

MUNICIPAL GOLF LINKS ATTENDANCE—1928

EASTMORELAND

December, 1927	2,912
January, 1928	1,213
February, 1928	6,902
March, 1928	6,375
April, 1928	8,337
May, 1928	14,845
June, 1928	17,059
July, 1928	18,433
August, 1928	16,983
September, 1928	14,374
October, 1928	9,021
November, 1928	5,656
	<hr/>
	122,110

ROSE CITY

December, 1927	4,162
January, 1928	1,610
February, 1928	6,908
March, 1928	7,119
April, 1928	9,414
May, 1928	13,810
June, 1928	14,196
July, 1928	14,876
August, 1928	17,492
September, 1928	16,424
October, 1928	10,333
November, 1928	7,104
	<hr/>
	123,448

WEST HILLS

December, 1927	308
January, 1928	75
February, 1928	797
March, 1928	1,148
April, 1928	1,362
May, 1928	2,447
June, 1928	3,046
July, 1928	4,292
August, 1928	4,377
September, 1928	4,310
October, 1928	2,689
November, 1928	1,839
	<hr/>
	26,690

EASTMORELAND GOLF LINKS—STATEMENT OF RECEIPTS AND DISBURSEMENTS DECEMBER 1, 1927, TO NOVEMBER 30, 1928

Cash on hand December 1, 1927..... \$ 50.60

Receipts—

Green fees (30c tickets \$33,480.60, scrip books \$365.00, season tickets \$1,020.00)	34,865.60
Ball sales	4,333.92
Club rents	2,171.30
Broken clubs	75.35
Checking	151.15
Caddie badges	23.00
Locker rents (yearly \$246.50, monthly \$47.50, daily \$28.60)	322.60
Locker keys	12.95
Reservations	115.20
Towels	25.45
Rain-coat rents	11.25
Incidentals	20.50
	<hr/>
	\$42,178.87

Disbursements—

To the City Treasurer:	
December, 1927	\$ 1,453.61
January, 1928	515.91
February, 1928	2,408.97
March, 1928	2,107.12
April, 1928	2,866.45
May, 1928	5,062.64
June, 1928	5,610.87
July, 1928	6,470.05
August, 1928	5,719.78
September, 1928	4,707.61
October, 1928	3,314.73
November, 1928	1,929.91
	<hr/>
	\$42,167.65

Cash on hand November 30, 1928..... 11.22

\$42,178.87

ROSE CITY GOLF LINKS—STATEMENT OF RECEIPTS AND DISBURSEMENTS DECEMBER 1, 1927, TO NOVEMBER 30, 1928

Cash on hand December 1, 1927.....	\$	41.08
Receipts—		
Green fees (30c tickets \$34,001.10, season tickets \$540.00, scrip books \$1,285.00)	35,826.10	
Ball sales	3,933.34	
Miscellaneous sales	91.35	
Club rents	2,511.65	
Broken clubs	116.70	
Checking	121.05	
Caddie badges	29.00	
Locker rents	1.00	
Raincoat rents	83.75	
Incidentals	53.34	
	<u>\$42,808.36</u>	
Disbursements—		
To the City Treasurer:		
December, 1927	\$	1,679.04
January, 1928		605.99
February, 1928		2,406.83
March, 1928		2,359.15
April, 1928		3,296.37
May, 1928		4,819.75
June, 1928		4,761.96
July, 1928		5,486.37
August, 1928		5,726.74
September, 1928		4,883.96
October, 1928		4,330.19
November, 1928		2,442.31
		<u>\$42,798.66</u>
Counterfeit coin turned over to U. S. Secret Service.....		1.00
Cash on hand November 30, 1928.....		8.70
		<u>\$42,808.36</u>

WEST HILLS GOLF LINKS—STATEMENT OF RECEIPTS AND DISBURSEMENTS DECEMBER 1, 1927, TO NOVEMBER 30, 1928

Cash on hand December 1, 1927.....	\$	12.25
Receipts—		
Green fees (30c tickets \$7,756.20, scrip books \$175.00).....	7,931.20	
Ball sales	941.32	
Miscellaneous sales	359.15	
Club rents	617.60	
Broken clubs	26.00	
Checking	29.15	
Caddie badges	3.00	
Raincoats	4.75	
Incidentals	30.80	
	<u>\$ 9,955.22</u>	
Disbursements—		
To the City Treasurer:		
December, 1927	\$	110.70
January, 1928		31.70
February, 1928		272.95
March, 1928		307.60
April, 1928		645.50
May, 1928		945.75
June, 1928		1,002.40
July, 1928		1,746.40
August, 1928		1,518.15
September, 1928		1,397.95
October, 1928		1,264.70
November, 1928		705.47
		<u>\$ 9,949.27</u>
Cash on hand November 30, 1928.....		5.95
		<u>\$ 9,955.22</u>

PLAYGROUND ATTENDANCE SEASON 1928

Playground	June		July		August		Total		Total All
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	
Alberta.....	2,280	2,079	4,773	3,873	5,184	4,425	12,237	10,377	22,614
Belmont.....	905	670	1,880	1,456	2,384	1,878	5,178	4,004	9,182
Columbia.....	2,450	2,100	6,865	7,295	7,572	7,485	16,887	16,880	33,767
Creston.....	3,056	793	2,546	2,429	4,367	4,014	9,969	7,236	17,205
W. Lair Hill.....	2,210	1,384	4,704	3,165	3,485	1,700	10,489	6,249	16,738
Irving.....	1,780	1,629	5,126	4,495	9,355	7,855	16,265	13,979	30,244
Johnson Creek.....	835	672	1,720	1,180	1,787	1,533	4,342	3,385	7,727
Kenilworth.....	1,345	1,065	4,220	3,267	3,005	3,070	8,570	7,402	15,972
Laurelhurst.....	2,395	1,910	6,945	6,315	4,865	4,020	14,205	12,245	26,450
Lemis.....	1,085	850	2,673	2,650	4,245	3,645	7,953	7,145	15,098
Lynnston.....	155	131	331	298	359	366	845	795	1,640
Montavilla.....	1,412	1,133	2,623	2,187	2,891	2,743	6,026	6,013	12,939
Mt. Scott.....	1,700	1,466	4,410	4,055	4,775	4,367	10,885	9,888	20,773
Mt. Tabor.....	1,250	1,015	2,349	1,540	1,805	1,651	5,404	4,206	9,610
North Park.....	1,135	564	2,798	1,571	3,255	1,585	7,163	3,720	10,873
Peninsula.....	4,825	3,920	29,275	21,693	23,465	18,925	57,565	44,538	102,103
Pier.....	414	528	3,759	4,611	3,147	3,472	7,350	8,611	15,961
Powell.....	1,620	710	2,763	1,265	3,520	1,940	7,903	15,731	30,640
Sellwood.....	1,510	1,915	7,742	7,510	5,657	6,306	14,909	2,319	11,898
Terwilliger.....	523	532	908	981	885	806	2,316	2,319	4,635
U. S. Grant.....	7,025	5,900	30,375	29,215	28,400	26,634	65,800	61,749	127,549
Wallace.....	1,298	633	2,888	1,195	3,254	2,046	7,410	3,874	11,284
Washington.....	1,580	1,372	3,713	2,813	2,695	2,348	7,988	6,533	14,521
Woodstock.....	745	617	1,563	1,569	1,487	1,311	3,795	3,497	7,292
Totals.....	43,483	33,588	137,013	116,568	131,848	114,125	312,344	264,281	576,625
Attendance Special Programs and Pageants.....		3,032		3,000		44,050		50,082	50,082
Total Attendance including Pageants, etc.....									626,707

COMMUNITY HOUSE ATTENDANCE 1928

	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Oct.	Nov.	Total
Neighborhood House.....	3,345	5,467	5,970	7,386	5,265	8,021	4,691	5,499	7,458	53,082
Peninsula.....	5,974	5,528	7,764	7,280	3,445	2,767	1,178	4,933	5,460	44,309
Sellwood.....	3,262	3,591	3,133	4,184	2,067	1,697	1,013	3,764	3,134	26,535
Schools.....								2,045	1,316	3,361
Totals.....	12,581	14,586	16,867	18,810	10,767	12,485	6,882	16,241	17,368	126,587

SWIMMING TANK ATTENDANCE 1928

	June	July	August	September	Total
Columbia.....		16,696	24,685	1,230	42,611
Creston.....	3,270	57,580	27,990	1,205	90,045
Mt. Scott.....	3,100	39,940	31,380	1,400	75,820
Peninsula.....	2,705	34,429	29,370	790	67,294
Sellwood.....	1,679	18,931	15,568	607	36,783
U. S. Grant.....	5,665	52,550	51,005	1,775	110,995
Neighborhood House.....		2,074	2,457		4,531
Totals.....	16,419	222,200	182,453	7,007	428,079

COMFORT STATION ATTENDANCE 1928

Month	6th and Yamhill		10th and Yamhill		4th and Yamhill		2nd and Washington		Park and Ankeny		Total		Grand Total
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	
December	104,595	36,822	46,206	5,356	31,113	5,544	43,107	5,544	55,995	4,420	281,016	52,142	333,158
January	37,610	30,400	44,080	5,062	37,473	4,767	38,041	4,767	46,640	3,532	263,844	43,761	307,605
February	88,486	32,456	43,488	5,077	26,339	5,224	41,663	5,224	51,068	3,751	251,104	46,508	297,612
March	91,113	34,089	47,267	5,635	29,820	5,680	43,181	4,997	52,411	4,156	262,792	49,563	312,355
April	87,553	32,433	44,908	5,915	28,905	4,997	37,072	4,997	53,456	4,156	251,894	47,501	299,395
May	85,596	34,853	44,672	6,046	29,914	6,046	43,149	5,015	57,281	4,838	260,612	50,792	311,304
June	95,753	40,333	48,500	7,993	32,190	6,181	42,620	6,181	68,605	5,808	287,668	60,319	347,983
July	82,000	32,097	45,226	5,853	29,535	4,584	39,685	4,584	63,626	4,708	260,072	47,330	307,402
August	90,890	37,808	43,620	6,274	31,467	5,080	40,586	5,080	60,586	5,317	297,449	54,479	321,928
September	93,346	34,041	43,571	5,920	29,088	4,810	37,175	4,810	54,363	4,688	257,543	49,259	306,802
October	86,525	33,822	49,907	6,472	32,153	5,157	39,460	5,157	54,623	4,598	262,668	50,049	312,717
November	85,802	32,248	44,898	6,014	30,301	4,730	36,737	4,730	49,780	3,987	247,518	46,979	294,497
Totals	1,089,269	311,402	545,643	71,617	368,358	61,769	482,476	61,769	698,434	53,850	3,154,180	598,638	3,752,818

SUPERINTENDENT OF PARKS' ANNUAL PROGRESS REPORT

Portland, Oregon, December 1, 1928.

A comparison of the list of park properties with that of last year indicates no notable gains. Mt. Tabor Park's area was increased by purchase of about one and one-sixth acres to enlarge the greenhouse yard and give an out to Division Street east of Reservoir No. 2. In time this border should be developed as a north and south street separating city from private ownerships. The situation at this corner of the park is now satisfactory.

There are three other places on this park's margins that need filling out. First: On the west. The park has no area flat enough for suitable playground use. The area between Reservoir No. 2 and both sides of the Lincoln Street strip is a logical location for a playground to serve a large district and should be acquired. Inasmuch as there is no playground between Laurelhurst and Creston and no chance for one, not even a generous school ground, this consideration is especially important.

Second: On the north. Yamhill Street and Broughton Avenue should be connected to form a continuous border street and improve entrance conditions. Negotiations are under way for acquisition of five lots in East Lynne Subdivision which will remove a property obstacle and facilitate the extension of the proposed border street. Interconnecting with this new street a drive should be built circling the cinder pit hill.

Third: On the east. There has always been a bunch of odd lots, privately owned, totaling three acres and jutting into the east side of the park along East Seventy-first Street. This intrusion cramps both access and use of this part of the park. And while not in the same sense vital, in order to develop properly the east boundary with suitable access and continuity, some four or five acres should be acquired further south along the east line of the park. Ultimately a main entrance must be worked out for south and east approach.

Although no actual increase is noted in Macleay Park area, considerable preliminary work has been done toward extending the park ownership both up and down Balch Creek. The Portland Garden Club, interested in developing a wild flower garden, has induced the Delinquent Tax Committee of the Council to withdraw from sale the neck of land reaching from the north boundary of the park to connect under Thurman Street Bridge with Upshur Street. There appears to be a good prospect of transferring other areas forming part of the scheme to park ownership at nominal cost.

Through the instrumentality of the Forestry Committee of the Chamber of Commerce a definite start has been made toward the establishment of an Arboretum for evergreen trees to be developed on the north 60 acres of Hoyt Park. In Oregon there are 30 native varieties of a list of some 500 or 600 known varieties. The ground is well adapted and our climate is perhaps as favorable as anywhere in the world to make a living exhibit of all of the needle-leaved evergreens and kindred varieties. A distinctive Arboretum of this type will have great education and exhibit value and will enhance the every-day recreational or ordinary park use of the land occupied.

It would seem the opportune time to make progress on linking up Hoyt Park with Macleay Park as a matter of related interest in preserves of Oregon trees and Oregon wild flowers, as well as continuity of park system scheme.

South of Washington Park and east of Hoyt Park is a sector of ground which for 40 years, so far as use is concerned, has been a no man's land. Within this area the Audubon Society has strongly urged the establishment of a 40-acre bird sanctuary. Probably no better use of this entire sector could be found than to devote it to public recreation. At least the bird sanctuary should be pre-empted.

Between Macleay Park and Linnton along the western hills there are several thousand acres of unproductive land that likewise could be worked into a notable park feature. Interest in horseback riding as a recreational activity seems to be coming back strong. Portland has an exceptional opportunity to feature this sport by a system of bridle paths threading the hollows and ridges, the wooded glens and the view points that have ever been in a vague zone of nondescript environs in the minds of city dwellers.

The construction of quarters for the carnivora, and a flying cage for vultures will generally speaking complete the present zoo development in Washington Park. As has been pointed out on more than one former occasion, the limitations of the Washington Park zoo site should impel us to seek a more generous layout. It is conceivable that golf will not always obtain in its present situation in Hoyt Park. It may not be too early to consider now a broader park use of the land occupied, and the suggestion is here offered that a highly satisfactory zoological park feature could be substituted for the existing golf of only passable recommendations.

To sum it up, from Canyon Road to Linnton, Portland could easily attain the largest and I dare say one of the most notable parks in the country containing a world famous rose garden, a well situated zoo, a bird sanctuary, a distinctive Arboretum, a wild flower preserve, a forest primeval, trails, viewpoints and glens, not miles and miles away but within our urban borders.

Although no actual progress has been made, it is perhaps pertinent to observe in this connection that the old deficiencies of Governor's Park are still the most significant of its characteristics. Here again we would say an unusual opportunity exists, if said opportunity had not existed during so many years. However, now with the greater portion of Cardinell Park in city ownership, a special effort should be made to extend Governor's Park to take in at least 40 acres, that apartment house dwellers and other "walking distance" people will surely miss if it should be built on or otherwise controverted from a civic benefit in the form of a conveniently accessible breathing space.

The Bureau fell heir to 600 feet of waterfront at the foot of Miles Street in this last year. It begins to look as if pleasure boating on the Willamette were coming back. It is recommended that the City acquire the intervening river frontage between Riverside Park and the Miles Street acquisition, and develop yacht harbors and pleasure piers under municipal control.

Whatever excess damages may accrue to the North Park Blocks

from the recently authorized widening of Burnside Street should be reinvested in park property as near as maybe to replace the diminished park use of this old dedication.

The Planning Commission has in preparation a report on park conditions, which I understand is preliminary to a thoroughgoing survey with recommendations, indicating probably another park bond issue. Your Superintendent of Parks believes this move is timely. While there is, as there has ever been, a disposition to decry more taxes, the use of the City's credit for park areas has not been abused. In fact has made an exceptionally good showing. Out of a floating debt of 17 millions there has been only two millions issued for parks and probably these two millions are floating more buoyantly than any other. Regarded from the mortgage or increment angle they could be reissued to advantage and perhaps as a matter of public policy they should be reissued rather than refunded on schedule. Our parks have enhanced in value, have created value and thereby augmented tax yield. If your town is a good town your citizens should not hesitate to invest in its largest City real estate holdings, to wit, its parks. Further if surrounding real property is enhanced in value, if the town becomes a better town to attract dwellers and visitors, its parks will make its taxes less rather than more burdensome.

Our City should without further delay initiate and prosecute a comprehensive plan for adequate park facilities. This plan will consider, First, Distribution: some neighborhoods which are still unprovided with every-day play space; Second, Character of system, several long neglected opportunities for special features that will reflect distinguishing credit on our city; Third, Provision for the future, a regional plan based on zoning and traffic flow of our metropolitan area.

A rather large improvement program was accomplished in 1928, major items of which were the Columbia Park swimming pool and bath house, and the filling of the trestle on Terwilliger Boulevard near mile post No. 3. Four hard surface tennis courts were constructed in Sellwood Park, W. Lair Hill Park and Rose City Golf Links, bringing our total up to 55 courts and putting Portland to the fore in facilities for this fine sport.

Supervised playgrounds were instituted in Portland in 1909. We are now operating 24. At present, with some exceptions, the situation is generally satisfactory. Significant of city growth, is the discontinuance of a playground. Brooklyn, one of our earliest playgrounds and always far too small, was abandoned and turned back to the Water Bureau this year. Widening of Milwaukie Avenue and developing Powell Street into a major traffic artery have rendered it expedient to transfer all of its play activities to the newer Powell Park.

We are still operating 13 diamonds for hard baseball. Doubtless they will have to be discontinued almost without exception in the smaller fields which are primarily playgrounds. Although the game seems to have gone professional therefore not so much as formerly a play habit of the people that parks serve, the so-called "Great American Pastime" will be kept alive for some time to come. A logi-

cal outlet would be a large flat area, such as our city has never possessed, for the major field sports. There will always be archery or races or mass athletics to require such a theatre.

A decade ago we had rather a difficult struggle in pointing the way of public links golf. This was followed by gratifying patronage, followed in turn by competition by private enterprise to a point that has somewhat blighted our plans for betterments of the physical properties. While the fiat prevails which decrees that municipal golf shall have no support from tax money, appointments for superior playing conditions will of necessity be deferred until the demands of the land debt are satisfied. The scheduled retirement of the original capital debt on Eastmoreland totaling \$120,000, is right now leaving insufficient revenue to permit of irrigating the fairways, and subdraining some low areas, improvements which should bring business to pay for themselves. Even so this year we increased the capital debt \$18,000 by annexing the Wilson Dairy at the south end of the tract, which gives us the situation and natural attributes for a municipal golf course second to none both as to scenic attraction and the facilities for high-class play, as well as being close in and convenient to citizen and visitor.

The Rose City course with a smaller capital debt, and at the same time a better revenue getter is doing well and doubtless will soon accumulate a surplus sufficient to finance a clubhouse and administration unit.

If there should come a turn in affairs or a change of policy by City Fathers that would take municipal golf out of the step-child classification, or at least stick the golfer for operation and maintenance only, a judicious expenditure of \$25,000 more capital on each of these properties would be advocated.

At West Hills there seems to be no better present use for the land, ergo with no hampering land debt let golf continue to do as well as it may. Again, in present status if service is the word, we should put out \$10,000 with the promise of an equal return in revenues for the rebuilding of three greens and some considerable drainage, also an improved water supply.

The International Rose Test Garden, which following the death of its principal sponsor, Jesse A. Curry, has lacked an active agent to make it function and draw in scale commensurate with its fame, has been put back into proper favor by the appointment of Dr. S. S. Sulliger, an eminent rose authority, as Curator. With the backing of the Portland Rose Society and the active support of the Portland Garden Club our Rose Gardens are being made a credit to the City of Roses. The gardens and theatre are still lacking in adequate drive access. When a well-schemed plan for an entrance from Park Avenue, and a dignified stairway leading down from the upper terrace to the rim of the theatre bowl, shall have been accomplished, the time will be ripe for building a small conservatory, rose laboratory and flower show house.

Interest has revived in the public administration of our shade trees. The Portland Nursery Club has had a bill prepared to introduce in the legislature designed to enable incorporated cities and towns and county authorities outside of incorporated cities to assess

planting and maintenance of shade trees on streets and highways to the abutting property, and definitely fixing control.

We are still evading the question of care and maintenance of "orphan" intersection and other street parks. Perhaps as good a solution as any to this shabby aspect of our streets, butchered trees and neglected areas is to work out a system of charging the costs against the abutting property on initiative by the owners affected.

As supplemental to the tabular data, the foregoing observations will perhaps indicate progress and trend. The regular annual report, essentially positive does not altogether account for lacks and omissions. Nor will it go comprehensively into the major consideration of continuing policy. These doubtless will be treated in a special metropolitan report by the Planning Commission, dealing with recreational facilities in relation to finance, zoning, articulation of traffic, and natural and other characteristics of our city.

BUREAU OF PURCHASES

April 1, 1929.

HON. COMMISSIONER PIER, DEPARTMENT OF FINANCE, PORTLAND, OREGON:

Dear Sir: Herewith is submitted the annual report of the Bureau of Purchases and Stores for the fiscal year 1928.

Activities of the Bureau of Purchases, along with affiliated bureaus, Municipal Store, Municipal Garage and Stationery Division, have continued much the same as during the previous year.

Prices remained firm in almost all lines, and purchases were made largely as the need arose. Yearly contracts entered into for staple commodities have produced marked savings, inasmuch as the contracts contained provisions that gave the city the benefit of a drop in market prices, and at the same time securing prices that would not have been obtainable except through contract purchasing. By carefully placing orders and at the same time distributing the business as much as possible where prices were identical, the public has received the greatest value for the money expended, and at the same time dealers in general were well satisfied.

In all of our contract purchases (those in excess of \$250), the fullest publicity has been given to matters, and all dealers known to be interested were called in sufficient time and invited to submit bids.

It is expected that even greater savings will be effected during the fiscal year 1929 inasmuch as this Bureau has already completed some very satisfactory contracts for the coming year.

Respectfully submitted,

FRANK COFFINBERRY,
PURCHASING AGENT, CITY OF PORTLAND.

BUREAU OF LICENSES

ANNUAL REPORT BUREAU OF LICENSES—1928

This Bureau, through the efforts of the entire personnel, was able to again show an increase of revenue over the year 1927. The granting of an additional deputy has given me an opportunity to reassign territory covered, giving each deputy a much better chance to make a closer check on all business requiring license. The addition of a new deputy for the year 1929 will, no doubt, show the wisdom of the plan to assign a smaller area to each man, thereby giving us a much better opportunity to cover all matters pertaining to licenses and regulation of same.

A total of 21,666 licenses was issued for the year 1928 with a gross revenue of \$156,239.86, and an additional income of \$21,474.50 from "dog" licenses. This shows a net increase for our "general" license revenue of \$10,819.45 over the year 1927. Our revenue from dogs' licenses fell off \$6,194.45 but this loss can not be charged to this Bureau as the Oregon Humane Society controls the situation and regulation.

This Bureau is constantly called upon for additional work and through changes of classifications requires the undivided efforts of the entire force to keep up the work constantly coming in to the office. We take pride in maintaining the record of having one of the best equipped, most efficient and economically operated License Bureaus in the entire country. Although the prospects for the year 1929 for a prosperous year do not look very promising to start, we hope to again show a substantial increase over 1928.

Respectfully submitted,

J. S. HUTCHINSON,
INSPECTOR OF LICENSES.

MUNICIPAL REFERENCE LIBRARY

HON. STANHOPE S. PIER, COMMISSIONER OF FINANCE:

I herewith submit my annual report for the Library year from November 1, 1927, to November 1, 1928.

The yearly statistical sheet is also appended.

The Library has had a successful year.

The Municipal Reference Library has been established 15 years; and while it is designed primarily for the use of the officials and employees of the city, and has constantly served this group, it also serves county employees, high school and college students, civic organizations and the general public. We strive to obtain new charters and ordinances and departmental reports of all cities with a population of over 100,000. Our magazines are circulated in the different departments and all those of a permanent value in the work are bound, such as "American City", "National Municipal Review", "Engineering News Record", "Public Works", "Journal of American Water Works Association", "Fire Engineering", "Water Engineering", "Good Roads", and "Survey".

A good deal of information is collected through correspondence and questionnaires. We have compiled fire department statistics, and a list of all city officials from charter of 1850 to present time. We have had good questionnaires received from Seattle, Municipal Reference Library on Garbage, and Complete Pension Systems for Municipal and State Employees.

We have filled out questionnaires and secured data for other municipal reference libraries, particularly at Philadelphia, New York City, Milwaukee, Los Angeles, Chicago, Baltimore and always Seattle.

For the schools, we made up a set of data for an organization chart of the city government, and helped in city planning essays and debate material.

We have aided the fire engineers with the Operators' Manual, and some of the fire houses have done some studying.

We have also helped out the police school with material and obtained additional information for them.

We assisted the City Club on Municipal Art by securing information, and filled out a long questionnaire of 56 questions from the Forum of Civics of Houston, Texas, on government pavements, street widening with assessments, housing and city planning.

We also have had the distribution of the annual and departmental reports of the City of Portland.

Respectfully submitted,

CAROLINE L. B. SIGRIST,
MUNICIPAL REFERENCE LIBRARIAN.

MUNICIPAL REFERENCE LIBRARY

257

STATISTICS FOR YEAR ENDING OCTOBER 31, 1928

Attendance	5,829
Questions—	
Research	601
Other	400
Total	1,001
Circulation: 100s, 300s, 500s, 600s, 700s, 800s, 900s.....	19,259
Periodicals: 000s, 300s, 600s.....	11,652
Total	30,911
Total for year.....	30,911
Letters—	
Received	881
Sent	933
Total	1,814
Telephone calls (outside).....	1,360
Notices (outside)	329
Responses	133
Index cards made	191
Catalog cards made.....	936
Total	1,127
Number of accessions.....	959
Total number of books and pamphlets listed.....	18,019
Total number of books deducting discards.....	16,436
Number of periodicals including health bulletins.....	117
Number of volumes from main library on deposit.....	1,664

ANNUAL REPORT
OF
THE DEPARTMENT OF
PUBLIC AFFAIRS

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

DEPARTMENT OF PUBLIC AFFAIRS

C. A. BIGELOW
COMMISSIONER

BUREAU OF FIRE—
EDWARD GRENFELL, Chief Engineer

BUREAU OF GARBAGE DISPOSAL—
WILLIAM G. HELBER, Superintendent

BUREAU OF STREET CLEANING—
GEO. A. RIES, Superintendent

MUNICIPAL SHOP—
J. V. SAVAGE, Shop Foreman

CARROLL PUBLIC MARKET—
J. A. EASTMAN, Market Master

PUBLIC EMPLOYMENT BUREAU—
A. W. JONES, Director

BUREAU OF FIRE

December 1, 1928.

C. A. BIGELOW, COMMISSIONER OF PUBLIC AFFAIRS, CITY HALL, CITY:

Dear Sir: In compliance with the City Charter, I hereby submit to you the 45th Annual Report of the Bureau of Fire for the fiscal year 1928, setting forth the activities participated in during the year, together with the cost of operation and a complete inventory of the property entrusted to this Department.

Our building program for the year was as follows: Four new fire stations were constructed: Engine Co. No. 11, Forty-third Street and Fifty-ninth Avenue Southeast; Engine Co. No. 34, Thirty-third and Alberta Streets; Engine Co. No. 36, Lombard and Herford Streets; Engine Co. No. 37, Ninety-second Street and Fifty-seventh Avenue Southeast.

The reconstruction of the Fire Alarm Telegraph System, which was provided for in the 1927 bond issue, is about 50 per cent complete and to the best of my knowledge this work will be completed and the Fire Alarm Telegraph headquarters transferred from the City Hall to the new building at East Twenty-first and Pacific Streets in about nine months from the present time.

The Fireboat Carl Gunster was completed in February, 1928, and placed in service in the lower harbor, being berthed at Municipal Terminal No. 3. Temporary quarters for the crew was constructed in the dock at this location.

Five 1000-gallon pumping engines were purchased with funds provided for in the 1927 bond issue. This apparatus was used to replace older equipment in the following stations:

Engine Co. No. 1—Fourth and Taylor Streets.
Engine Co. No. 4—Fourth and Montgomery Streets.
Engine Co. No. 7—East Eleventh and East Stark Streets.
Engine Co. No. 13—Grand Avenue and Multnomah Street.
Engine Co. No. 3—Fourteenth and Glisan Streets.

The older apparatus from these stations were moved to districts farther out.

Other important changes made in companies were as follows: Hose companies No. 31, 4536 Sixty-seventh Street Southeast; No. 33, Linnton, Oregon; No. 19, 1597 East Stark Street, and No. 28, 1494 Sandy Boulevard, were changed to pump companies.

Two 85-foot aerial trucks were purchased with funds provided in the 1927 bond issue and placed in service, one at Fourth and Taylor Streets and one at Fourteenth and Glisan Streets. The old truck from Fourth and Taylor Street station was moved to Truck 4, Eleventh and East Stark Streets and the one from Fourteenth and Glisan Streets was placed in reserve.

All hose in the department was tested at 200 pounds pressure, and 17,000 feet was found to be unfit for service and condemned. From the appropriation provided for in the budget, 10,000 feet of Portland specification hose was purchased and placed in service at stations in the high value section of the City. The older hose from these stations was moved to locations farther out where demands on it would not be so great.

Nelson T. Woods, auto mechanic, was transferred from the Municipal Shop to the Bureau of Fire and placed in charge of the upkeep of all apparatus and equipment.

After having charge of the affairs of the Bureau of Fire for one year, I find the things most urgently needed to bring the Department up to a higher point of efficiency are as follows:

1. The men who were taken from downtown companies, in order to place the four new companies in the outlying districts in service, should be replaced and the personnel of all companies brought up to standard working strength as soon as possible.

2. We do not have a drill tower at the present time, where officers and men can be properly drilled and trained in modern methods of fire fighting and I strongly recommend that steps be taken in the near future to provide this much needed equipment.

3. Many of the stations are in a run-down condition and in need of extensive repairs. In order to prevent further deterioration in these buildings, ample funds should be provided for this purpose.

4. Fourteen pieces of motor apparatus now in service in the Department, are from 12 to 14 years old. This equipment is out of date and very expensive to keep in operation. A plan should be worked out whereby the old equipment would be gradually replaced, by purchasing each year a certain amount of new apparatus.

In conclusion I wish to recommend to you that the above mentioned items be taken care of before further additions or extensions are made to the Department.

Respectfully submitted,

EDW. GRENFELL,
CHIEF OF FIRE DEPARTMENT.

EXECUTIVE OFFICERS, BUREAU OF FIRE, NOVEMBER 30, 1928

- EDWARD GRENFELL, Chief
- JAMES DILLANE, First Assistant Chief
(District No. 2—West Side, North of Morrison Street)
- HARRY C. JOHNSON, Second Assistant Chief
(District No. 4—East Side, South of East Ankeny Street)
- W. D. HEATH, Battalion Chief
(District No. 1—West Side, South of Morrison Street)
- FRED W. ROBERTS, Battalion Chief, Fire Marshal
- C. O. HAINES, Battalion Chief
(District No. 3—East Side, North of East Ankeny Street)
- CHAS. A. SAVARIAU, Superintendent Fire Alarm Telegraph
- N. T. WOODS, Superintendent of Apparatus and Equipment
- H. F. BAHLMAN, Chief Clerk

ORGANIZATION OF BUREAU OF FIRE FOR YEAR ENDING
NOVEMBER 30, 1928

Chief Engineer	1	Blacksmith	1
First Assistant Chief Engineer.	1	Supply Driver	1
Second Assistant Chief Engineer	1	Hydrant Inspector	1
Battalion Chiefs	3	Hydrant Repair Man.....	1
Chief Clerk	1	Fireboat Pilots	6
Stenographer	1	Captains, Senior	42
Superintendent of Fire Alarm	1	Captains, Junior	57
Telegraph	1	Engineers	27
Chief Operator	1	Assistant Engineers	27
Operators	6	Hosemen	324
Linemen	3		
Hydrantman	1	Total employes	508
Instrument Maker	1		

INVENTORY OF ENTIRE DEPARTMENT

Buildings	\$ 550,355.85
Real estate	363,180.00
Equipment, furniture	1,154,167.60
Total	\$2,067,703.45

REAL ESTATE AND BUILDINGS—BUREAU OF FIRE—NOVEMBER 30, 1928

Company	Address	Lot and Block Numbers	Size Lot	Construction of Building	Cost of Building	Cost of Lot
Engine 1	201 Fourth St.	L. 6	50 x 100	3 S. Brick	\$ 50,000.00	\$ 48,000.00
Engine 2	126 N. Third	B. "N"	50 x 188	2 S. Brick	15,000.00	15,000.00
Engine 3	511 Glisuth St.	B. 69	50 x 100	2 S. Brick	12,500.00	8,570.00
Engine 4	370 Fourth St.	E. 1/2, L. 2, 3	50 x 100	2 S. Brick	15,000.00	6,135.00
Engine 5	811 Fourth St.	L. 2	50 x 100	1 S. Brick	11,000.00	2,870.00
Engine 6	231 and Reed	B. 22	50 x 100	2 S. Brick	11,000.00	3,470.00
Engine 7	E. 14th and Stark	B. 221	100 x 100	2 S. Brick	33,314.35	8,900.00
Engine 8	303 Russell St.	B. 20	50 x 100	2 S. Brick	15,000.00	3,335.00
Engine 9	1334 Kelly St.	B. 6	33 1/2 x 100	1 S. Brick	15,000.00	1,935.00
Engine 10	63 E. 35th St.	B. 30	50 x 100	1 S. Brick	10,980.00	500.00
Engine 11	S. W. Cor. 39th Ave. and 43rd.	B. 5	50 x 100	1 S. Brick	11,900.00	1,300.00
Engine 12	261 Grand Ave.	B. 71	50 x 100	1 S. Frame	7,200.00	3,335.00
Engine 13	1027 Union Ave.	B. 5	50 x 100	1 S. Brick	11,000.00	2,535.00
Engine 14	590 Spring St.	B. 104	50 x 100	1 S. Brick	12,112.00	2,650.00
Engine 15	494 Montgomery	B. 8	80 x 100	2 S. Brick	14,000.00	7,735.00
Engine 16	188 N. 24th St.	B. 3	50 x 100	2 S. Brick	12,000.00	4,800.00
Engine 17	488 E. 24th St. N	B. 1	100 x 100	1 S. Brick	7,000.00	2,700.00
Engine 18	1597 E. Stark St.	1 of L. 12, 13	100 x 100	2 S. Frame	9,000.00	1,500.00
Engine 19	7660 E. 13th St.	B. 57	100 x 100	1 S. Brick	11,000.00	2,100.00
Engine 20	69 Second St.	B. 30	25 x 100	2 S. Fireproof	16,000.00	11,335.00
Engine 21	273 First St.	B. 9	25 x 100	2 S. Brick	15,000.00	10,700.00
Engine 22	387 E. 7th St.	B. 76	25 x 100	2 S. Brick	7,000.00	750.00
Engine 23	1126 Patton Ave.	B. "B"	100 x 100	2 S. Brick	15,000.00	6,775.00
Engine 24	1000 Francis Ave.	B. 10	100 x 100	2 S. Brick	16,000.00	1,135.00
Engine 25	329 N. 20th St.	B. 291	50 x 100	2 S. Frame	2,400.00	3,335.00
Engine 26						

REAL ESTATE AND BUILDINGS—BUREAU OF FIRE—NOVEMBER 30, 1928—Continued

Company	Address	Lot and Block Numbers	Size Lot	Construction of Building	Cost of Building	Cost of Lot
Engine 27	30 E. 82nd St.	L. 1, 2	100 x 100	2 S. Brick	\$ 8,400.00	\$ 550.00
Engine 28	1494 Sandy Road	L. 1, 2	100 x 100	2 S. Brick	8,000.00	1,470.00
Engine 29	426 Durham	B. 38	Triangle	2 S. Brick	8,000.00	Leased
Engine 30	1713 Braudon	L. 33, 34, 35	100 x 100	2 S. Brick	10,899.50	735.00
Engine 31	4536 67th St. S. E.	B. "B"	100 x 100	2 S. Brick	5,000.00	935.00
Engine 32	215 Philadelphia D.	B. 46	235 x 130	2 S. Frame	750.00	2,250.00
Engine 33	Albion and 1st	L. 5, 6	25 x 100	2 S. Brick	10,080.00	540.00
Engine 34	1 Lombard and 11erford	L. 1, 2, 3, 4	100 x 100	1 S. Brick	1,0280.00	870.00
Engine 35	92nd St. and 57th Ave.	E. 130 ft. of L. 1, N. 12 1/2 ft. of L. 1	88 x 100	1 S. Brick		2,010.00
Engine 36		L. 2				
Engine 37		Bet. B. 2, 3, E. Pt. Tax Lot 27	87 1/2 x 130	1 S. Brick	10,980.00	1,550.00
Fireboat 1	Ft. E. Washington St.	L. 13	60 x 300	1 S. Fireproof	31,000.00	29,600.00
Fireboat 2	359 Alabama Ave.	B. 14	60 x 300	2 S. Fireproof	32,500.00	25,000.00
Sup. Station	227 Union Ave.	L. 6, N. 1/2, E. 1/2	50 x 100	2 S. Frame	300.00	2,000.00
Sup. Station	40 E. Third St.	N. 1/2, L. 13, 14, 15, 16	25 x 50	2 S. Frame	1,300.00	1,335.00
Sup. Station	21st and Pacific	L. 3, 4, 5, 6	50 x 100	2 S. Brick	8,000.00	6,000.00
F. A. T.		B. 39	Triangle	1 S. Fireproof	21,680.00	1,750.00
	Total Cost.				\$540,355.85	\$ 236,065.00

REAL ESTATE AND BUILDINGS—BUREAU OF FIRE—NOVEMBER 30, 1928—Continued
BUILDINGS UNDER PRIVATE LEASE

Address	Lessee	Lot and Block Numbers	Size of Lot	Construction of Building	Cost of Building	Cost of Lot
168-170 4th St.	Brooklyn Lib.	L. 6 B. 50	50 x 100	2 S. Brick	\$ 7,000.00	\$ 99,000.00
545 Powell St.		T. L. 24 Sec. 11	50 x 100	2 S. Frame	3,000.00	640.00
	Total Cost				\$ 10,000.00	\$ 99,640.00

Addition	Address	Lot and Block Numbers	Size of Lot	Cost of Lot
Albina Homestead	E. S. Vancouver Ave. between Failing and Beech.	L. 14 B. 29	50 x 100	\$ 1,000.00
Tax Lot	S. W. Corner Ella and Morrison	S. 33	45 x 104	18,000.00
Proebstel	S. S. Northwick between Knott and Graham	L. 11 B. 10	50 x 100	800.00
Richmond	S. S. Division between E. 39th and 41st	L. 7, 9 B. 2	100 x 100	1,600.00
Sunnyside	N. W. Corner E. Taylor and E. 34th	L. 12, 13, S. 1/2 14 B. 29	7,250 ft.	2,235.00
Tax Lot	Essex St.	T. L. 26 S. 28	0.35 A.	4,000.00
	Total Cost			\$ 27,475.00
	Total Estimated Cost of Bureau of Fire Buildings			\$ 550,355.85
	Total Estimated Cost of Bureau of Fire Lots			363,180.00
	Grand Total Cost Real Estate and Buildings			\$ 913,535.85

VACANT LOTS

BUREAU OF FIRE EQUIPMENT, NOVEMBER 30, 1928

Houses, single	30
Houses, double	9
Houses, not occupied as fire stations	3
Fireboats	3
Tractor-drawn steamer	1
Squad wagons	2
Turret and hose	2
Turret-hose and chemical	3
Straight hose	1
Hose and chemical	11
Hose and pumper	18
Hose, pump and chemical	6
Straight chemical	2
85-foot aerial truck	5
City service truck	3
Three-ton supply truck	1
One-ton hydrant truck	1
Fire Alarm and police telegraph truck	2
Roadsters	2
Five-passenger sedans	2
Five-passenger coaches	2
Five-passenger touring	5
Seven-passenger touring	2
Emergency steamers	12
Hose, all sizes, number feet	101,150
Hydrants	6,376
Cisterns	79
Fire alarm boxes	549
Village trucks	2
Forty-gallon chemical	1

MOTOR EQUIPMENT—BUREAU OF FIRE—NOVEMBER 30, 1928
AUTOMOBILES

User	Code No.	Make	Type	Motor No.	Time in Service	Cost
Commissioner	C-1	Studebaker	Sedan	5395	7 Mo.	1,650.00
Chief	C-2	Studebaker	Sedan	3633	7 Da.	1,650.00
1st Asst. Chief	C-6	Studebaker	Touring	15061	2 Yr.	2,400.00
2nd Asst. Chief	C-5	Studebaker	Touring	5324	3 Yr.	2,190.00
Battalion Chief, District 1	C-8	Studebaker	Touring	1770875	1 Yr.	1,625.00
Battalion Chief, District 3	C-7	Studebaker	Touring	1770573	1 Yr.	1,500.00
Fire Marshal	C-4	Nash	Touring	180128	3 Yr.	1,717.50
Fire Prevention	C-10	Ford	Sedan	A-10444	9 Mo.	538.52
Fire Prevention	C-9	Ford	Sedan	A-9237	0 Mo.	538.52
Superintendent F. A. T.	A-13-a	Oakland	Touring	L-10685	4 Yr.	957.50
Superintendent Apparatus	C-11	Ford	Roadster	A-418794	1 Mo.	525.00
Hydrant Inspector	A-7-b	Ford	Roadster	14014101	2 Yr.	415.00
Reserve	C-3	Nash	Touring	180318	3 Yr.	1,082.50
Total Cost Automobiles						\$ 16,789.54

FIRE BOATS—BUREAU OF FIRE—NOVEMBER 30, 1928

Location	Code No.	Maker	Capacity Underwriter's Test		Time in Service	Cost
			G. P. M.	R. P. M.		
Fireboat No. 1	Mike Loudenklos	Baker Construction Co.	9,768	1,174	10 Mo.	\$ 103,615.16
Fireboat No. 2	David Campbell	Baker Construction Co.	10,005	1,170	11 Mo.	103,615.16
Fireboat No. 3	Karl Gunster	Baker Construction Co.	9,680	1,170	9 Mo.	103,615.16
Total Cost Fire Boats						\$ 310,845.48

DESCRIPTION OF FIRE BOATS

Hull Construction: Steel; length, 86 feet; beam, 26 feet; draft, 6 feet; gross tonnage, 76 tons; net tonnage, 46 tons; speed, 17 miles per hour.

Motors: Make, Sterling Viking II; two forward, two after motors. Type forward, 6-cylinder, model T. C. 6, gasoline, 425 H. P. each at 1200 R. P. M. Type after, 8-cylinder, model T. S, gasoline, 565 H. P. each at 1200 R. P. M. Two 6-cylinder forward motors used for pumping only and are connected directly to pump. Two 8-cylinder after motors used for propelling and pumping, and have clutch attached at each end.

Pumps: Make, Byron Jackson; two forward, two after pumps. Type: 8-inch 4-stage multiplex, centrifugal. Capacity forward, 2180 G. P. M. each at 1150 R. P. M. Capacity after, 2680 G. P. M. each at 1150 R. P. M.

MOTOR EQUIPMENT—BUREAU OF FIRE—NOVEMBER 30, 1928
HOOK AND LADDER TRUCKS

Location	Code No.	Make	Type	Motor No.	Time in Service	Cost
Truck 1	58	Ahrens Fox	85 ft. Aerial Tractor	11-2440	2 Mo.	15,750.00
Truck 2	22	Am. La France	85 ft. Aerial	437	12 Yr.	11,950.00
Truck 3	57	Am. La France	75 ft. Aerial Tractor	4383	6 Mo.	15,750.00
Truck 4	55	Ahrens Fox	75 ft. Aerial Tractor	1015-2442	1 Yr.	7,000.00
Truck 5	24	Am. La France	City Service T. & C.	474	12 Yr.	4,350.00
Truck 6	21	Seagrave	City Service T. & C.	560	13 Yr.	6,468.00
Truck 7	49	Seagrave	City Service T. & C.	1647	2 Mo.	11,200.00
Reserve	45	Am. La France	85 ft. Aerial	1989	1 Da.	17,480.00
Total Cost Hook and Ladder Trucks					6 Mo.	\$ 89,948.00

SQUAD TRUCKS

Location	Code No.	Make	Type	Motor No.	Time in Service	Cost
Squad 1	56	Studebaker	Squad	BA-27	1 Mo.	3,670.00
Squad 2	4	Am. La France	Squad	206	15 Yr.	5,451.00
Total Cost Squad Trucks					7 Mo.	\$ 9,121.00

MOTOR EQUIPMENT—BUREAU OF FIRE—NOVEMBER 30, 1928
TRUCKS

Location	Code No.	Make	Type	Motor No.	Time in Service	Cost
Fire Alarm Telegraph	11	Graham Bros.	1 1/2 Ton	M-6880	3 Mo.	1,210.00
Fire Alarm Telegraph	34	Oldsmobile	1 1/2 Ton	B-20914	6 Da.	1,210.00
Hydrant Truck	27-b	Yellow Knight	1 1/2 Ton	5175	7 Mo.	1,443.32
Supply Truck	19	White	3 Ton	20786	14 Yr.	3,900.00
Total Cost Trucks					1 Mo.	\$ 7,763.32

Total estimated cost Bureau of Fire automobiles \$ 16,789.54
 Total estimated cost Bureau of Fire boats 310,845.48
 Total estimated cost Bureau of Fire pumps 280,159.50
 Total estimated cost Bureau of Fire hose trucks 61,159.50
 Total estimated cost Bureau of Fire chemical trucks 11,351.00
 Total estimated cost Bureau of Fire hook and ladder trucks 89,948.00
 Total estimated cost Bureau of Fire squad trucks 9,121.00
 Total estimated cost Bureau of Fire trucks 7,763.32

Grand total cost motor equipment Bureau of Fire..... \$787,137.34

OLD STEAM FIRE ENGINES NOT IN USE—BUREAU OF FIRE—NOVEMBER 30, 1928

Location	Make	Class or Size	Gallon Capacity	Department No.	Factory No.
Shop.....	Am. La France.....	Extra 1st Class.....	1,100	16	2,701
Engine 2.....	Am. La France.....	Extra 1st Class.....	1,100	26	2,824
Engine 16.....	Am. La France.....	Extra 1st Class.....	1,000	201	2,967
Shop.....	Am. La France.....	1st Class.....	900	203	3,009
Shop.....	Clapp & Jones.....	2nd Size.....	700	206	524
Engine 16.....	Am. La France.....	2nd Class.....	700	208	3,192
Engine 8.....	Am. La France.....	2nd Class.....	700	227	3,191
Terminal 4.....	Am. La France.....	3rd Class.....	600	210	3,328
Engine 2.....	Am. La France.....	3rd Class.....	600	212	3,293
Water Department.....	Am. La France.....	3rd Class.....	600	216	3,121
Engine 23.....	Am. La France.....	3rd Class.....	600	218	3,327
Shop.....	Am. La France.....	3rd Size.....	600	228	3,120
Shop.....	Clapp & Jones.....	3rd Size.....	600	230	523
Engine 16.....	Amoskeg.....	4th Size.....	260	231	537
				232	213

COST OF MAJOR REPAIRS AND SERVICING APPARATUS DURING FISCAL YEAR 1928

Code No.	Make	Location	Tires and Tubes	Shop Repairs	Miscellaneous Cost	Total Cost for Year
B-4	Oldsmobile.....	Engine 1-13.....	\$ 2.25	\$ 14.70	\$.81	\$ 48.45
B-5	Durant.....	Engine 19.....	36.90	191.27	75.76	422.48
B-7	Ford.....	Engine 7.....	80.50	248.96	2.82	413.04
A-13	Chevrolet.....	Engine 17.....	163.77	248.14	13.47	598.47
C-3	Nash.....	Engine 25.....	44.40	118.15	4.54	491.10
C-4	Nash.....	Engine 12.....	44.40	176.08	6.22	341.56
C-5	Studebaker.....	Engine 7.....	165.40	491.51	19.99	785.39
C-6	Studebaker.....	Engine 17.....	165.40	111.41	1.45	470.85
C-7	Buick.....	Engine 8.....	57.20	459.59	11.04	741.92
C-8	Buick.....	Engine 22.....	369.11	369.11	9.67	540.60
App. 54	Am. La France.....	Engine 21.....	166.62	166.62	17.17	296.96
App. 25	Am. La France.....	Engine 2.....	651.65	651.65	12.39	686.14
App. 26	Am. La France.....	Engine 2.....	31.75	31.75	12.48	136.51
App. 50	Am. La France.....	Engine 6.....	40.92	28.82	3.11	128.35
App. 53	Am. La France.....	Engine 8.....	24.75	7.40	10.79	57.58
App. 7	Am. La France.....	Engine 5.....	7.40	37.48	8.64	69.30
App. 33	Am. La France.....	Engine 19.....	6.30	23.74	23.74	85.28
App. 30	Am. La France.....	Reserve.....	33.03	33.03	17.75	113.29
App. 44	Am. La France.....	Engine 28.....	1,728.84	1,728.84	13.16	1,917.04
App. 29	Am. La France.....	Engine 10.....	23.78	23.78	25.50	95.51
App. 12	Am. La France.....	Engine 12.....	22.75	22.75	5.90	55.06
App. 48	Stutz.....	Engine 9.....	529.50	529.50	92.62	684.88
App. 17	Am. La France.....	Engine 14.....	9.99	9.99	6.75	87.11
App. 47	Am. La France.....	Engine 15.....	1,596.90	1,596.90	6.79	1,638.19
App. 31	Am. La France.....	Engine 31.....	620.08	620.08	14.51	678.38
App. 43	Am. La France.....	Engine 17.....	4.12	4.12	7.21	76.72
App. 6	Am. La France.....	Engine 18.....	5.14	37.48	2.08	37.36
App. 46	Gary.....	Reserve.....	129.50	129.50	8.87	189.58
App. 9	Am. La France.....	Engine 20.....	13.98	13.98	8.87	86.00
App. 51	Am. La France.....	Engine 16.....	25.00	2.00	39.91	115.96
App. 41	Am. La France.....	Engine 22.....	217.15	217.15	14.63	300.77

COST OF MAJOR REPAIRS AND SERVICING APPARATUS DURING FISCAL YEAR 1928—Continued.

Code No.	Make	Location	Tires and Tubes	Shop Repairs	Miscellaneous Cost	Total Cost for Year
App. 28	Am. La France.	Engine 24	\$ 129.86	\$ 3,118.10	\$ 44.93	\$ 3,303.73
App. 1	Am. La France.	Engine 25	146.10	265.86	4.24	463.44
App. 10	Am. La France.	Engine 26			2.27	31.01
App. 36	Gary.	Engine 27		4.13	40.25	25.67
App. 18	Seldon	Reserve		63.28	3.18	99.47
App. 39	Gary.	Engine 29			1.70	23.50
App. 38	Gary.	Engine 30		18.47	1.28	49.02
App. 37	Gary.	Engine 37	3,565.00	375.68	12.31	481.58
App. 42	Gary.	Engine 32	285.50	914.95	11.36	1,255.56
App. 40	Am. La France.	Engine 36		170.70	12.15	202.10
App. 13	Am. La France.	Junked				
App. 55	Abrens Fox	Truck 4		363.16	39.37	465.93
App. 22	Am. La France.	Truck 2		183.85	15.86	282.40
App. 45	Am. La France.	Truck 5		183.73	23.50	272.89
App. 49	Seagrave.	Truck 7	217.90	146.12	47.25	475.15
App. 21	Seagrave.	Truck 6	149.20	1,540.56	9.70	1,708.47
App. 20	Am. La France.	Reserve		257.90	6.22	338.14
App. 5	White	Engine 21	36.60	7.01	11.10	46.37
App. 4	Am. La France.	Engine 22		140.42	11.95	221.65
App. 35	Studebaker	Engine 7		12.20		26.36
App. 19	Gary.	Engine 1	L75	1,390.00	32.39	1,473.82
App. 56	White	Fire Boat 1		4.46		18.00
App. 15	White	Fire Boat 2		51.18	41.25	117.71
App. 2	White	Supply House				31.84
App. 14	Yellow Knight.	Engine 34		74.05	9.20	116.28
App. 27-b	Oldsmobile.	Reserve	53.40	20.29		35.22
App. 31	Oldsmobile.	Supply House	84.60	478.91	22.66	729.94
		Engine 7		314.31	27.32	593.65

HOSE REPORT—BUREAU OF FIRE—NOVEMBER 30, 1928

The following described hose were tested at 200 pounds pressure, July, 1928:

Co.	Length	Brand	Size	Date Purchased	Age January, 1928	Agent
1	2,000'	Victor	2 1/2"	7-1-25	3 Years	Munnell & Sherrill.
2	2,000'	Victor	2 1/2"	7-1-25	3 Years	Munnell & Sherrill.
3	2,000'	Victor	2 1/2"	7-1-25	3 Years	Munnell & Sherrill.
4	2,000'	Victor	2 1/2"	7-1-25	3 Years	Munnell & Sherrill.
5	550'	Keystone	2 1/2"	1904	24 Years	A. G. Long Co.
5	800'	Keystone	2 1/2"	11-1-04	24 Years	A. G. Long Co.
5	100'	Keystone	2 1/2"	1912	16 Years	A. G. Long Co.
5	150'	Keystone	2 1/2"	1-8-16	12 Years	A. G. Long Co.
6	1,000'	Keystone	2 1/2"	8-20-20	8 Years	A. G. Long Co.
6	600'	Cracker Jack	2 3/4"	1-29-23	5 Years	Am. Rub. Mfg. Co.
6	100'	Trojan	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
6	50'	Paragon	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
7	2,000'	Keystone	2 1/2"	6-21-23	5 Years	A. G. Long Co.
8	750'	Keystone	2 1/2"	12-30-25	5 Years	A. G. Long Co.
8	1,000'	Cracker Jack	2 1/2"	5-10-26	2 Years	Howard Cooper.
9	1,000'	Amazon	2 1/2"	1-26-10	18 Years	Eureka Fire Hose.
9	1,000'	Victor	2 3/4"	8-27-23	5 Years	Munnell & Sherrill.
10	1,000'	Cracker Jack	2 1/2"	5-10-26	2 Years	Howard-Cooper.
10	950'	Columbia	2 3/4"	3-8-23	5 Years	Goodyear Rubber Co.
10	100'	Paragon	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
10	150'	Trojan	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
12	1,700'	Keystone	2 1/2"	12-5-06	22 Years	A. G. Long Co.
12	200'	Keystone	2 1/2"	3-2-11	17 Years	A. G. Long Co.
13	1,950'	Keystone	2 1/2"	2-26-23	5 Years	A. G. Long Co.
14	500'	Keystone	2 1/2"	10-26-02	26 Years	A. G. Long Co.
14	400'	Keystone	2 1/2"	11-21-06	22 Years	A. G. Long Co.
14	100'	Keystone	2 1/2"	6-20-04	24 Years	A. G. Long Co.
14	800'	Paragon	2 1/2"	4-16-11	17 Years	Eureka Fire Hose.
15	250'	Columbia	2 1/2"	2-23-23	5 Years	Goodyear Rubber Co.
15	250'	Cracker Jack	2 1/2"	1-28-23	5 Years	Am. Rubber Mills.
15	250'	Congo	2 1/2"	3-16-23	5 Years	Woodbury Steel Co.
15	250'	Trojan	2 1/2"	3-16-23	5 Years	U. S. Rubber Co.
15	1,000'	Victor	2 1/2"	2-1-23	5 Years	Munnell & Sherrill.
16	1,500'	Congo	2 1/2"	3-16-23	5 Years	Woodbury Steel Co.
16	200'	Trojan	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
16	150'	Paragon	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
16	100'	Keystone	2 1/2"	12-5-06	22 Years	A. G. Long Co.
17	1,950'	Keystone	2 1/2"	12-30-23	5 Years	A. G. Long Co.
18	1,850'	Goodrich	2 1/2"	2-6-13	15 Years	Nott Joslyn.
19	1,700'	Keystone	2 1/2"	11-14-16	12 Years	A. G. Long Co.
19	200'	Columbia	2 3/4"	3-8-23	5 Years	Goodyear Rubber Co.
19	50'	Cracker Jack	2 3/4"	1-29-23	5 Years	Am. Rubber Mills.
19	50'	Trojan	2 3/4"	3-16-23	5 Years	U. S. Rubber Co.
20	1,000'	Cracker Jack	2 1/2"	5-10-26	5 Years	Howard-Cooper.
20	650'	Keystone	2 1/2"	1-8-05	23 Years	A. G. Long Co.
20	100'	Keystone	2 1/2"	1-5-11	17 Years	A. G. Long Co.
20	250'	Keystone	2 1/2"	3-24-15	13 Years	A. G. Long Co.
21	2,000'	Victor	2 1/2"	7-1-25	3 Years	Munnell & Sherrill.
22	2,000'	Victor	2 1/2"	7-1-25	3 Years	Munnell & Sherrill.
23	2,000'	Keystone	2 1/2"	12-10-23	5 Years	A. G. Long Co.
24	1,000'	Keystone	2 1/2"	10-22-24	4 Years	A. G. Long Co.
24	600'	Keystone	2 1/2"	3-2-11	17 Years	A. G. Long Co.
24	300'	Keystone	2 1/2"	1-8-16	12 Years	A. G. Long Co.
24	100'	Keystone	2 1/2"	12-5-06	22 Years	A. G. Long Co.
25	1,000'	Victor	2 1/2"	8-3-21	7 Years	Munnell & Sherrill.
25	1,000'	Keystone	2 1/2"	10-20-12	16 Years	A. G. Long Co.
26	1,900'	Keystone	2 1/2"	8-3-21	7 Years	A. G. Long Co.
27	750'	Invader	2 1/2"	4-3-13	15 Years	Republic Rubber Co.
27	250'	Goodrich	2 1/2"	10-30-12	16 Years	Nott Joslyn Co.
27	400'	Keystone	2 1/2"	12-5-06	22 Years	A. G. Long Co.
27	150'	Keystone	2 1/2"	4-10-08	20 Years	A. G. Long Co.
27	350'	Keystone	2 1/2"	3-2-11	17 Years	A. G. Long Co.
27	50'	Keystone	2 1/2"	6-24-13	15 Years	A. G. Long Co.

HOSE REPORT—BUREAU OF FIRE—NOVEMBER 30, 1928—Continued

Co.	Length	Brand	Size	Date Purchased	Age January, 1928	Agent
27	50'	Keystone	2 1/2"	8-3-21	7 Years	A. G. Long Co.
28	1,000'	Helmet	2 1/2"	2-14-13	15 Years	Eureka Fire Hose.
28	200'	Paragon	2 1/2"	4-16-11	17 Years	Eureka Fire Hose.
28	250'	Amazon	2 1/2"	1-26-10	18 Years	Eureka Fire Hose.
28	150'	Keystone	2 1/2"	12-5-06	22 Years	A. G. Long Co.
28	150'	Victor	2 1/2"	1908	20 Years	Bowers Rubber Co.
28	100'	Victor	2 1/2"	8-3-21	7 Years	Munnell & Sherrill.
28	100'	Invader	2 1/2"	4-3-13	15 Years	Republic Rubber Co.
28	50'	Boston	2 1/2"	4-15-15	13 Years	Goodyear Rubber Co.
29	1,000'	Columbia	2 1/2"	2-13-13	15 Years	Bowers Rubber Co.
29	1,000'	Victor	2 1/2"	12-3-13	15 Years	Eureka Fire Hose.
30	2,000'	Paragon	2 1/2"	2-14-13	15 Years	A. G. Long Co.
31	2,000'	Keystone	2 1/2"	3-20-20	8 Years	Howard-Cooper.
32	2,000'	Cracker Jack	2 1/2"	5-10-26	2 Years	Boston Woven Hose.
33	950'	Boston	2 1/2"	4-10-15	13 Years	A. G. Long Co.
33	300'	Keystone	2 1/2"	1-8-05	23 Years	A. G. Long Co.
33	350'	Keystone	2 1/2"	11-5-06	22 Years	A. G. Long Co.
33	200'	Keystone	2 1/2"	3-2-11	17 Years	A. G. Long Co.
33	300'	Keystone	2 1/2"	3-24-15	13 Years	A. G. Long Co.
33	100'	Keystone	2 1/2"	1-8-16	12 Years	A. G. Long Co.
33	100'	Columbia	2 1/2"	1-15-13	15 Years	Goodyear Rubber Co.
33	100'	Invader	2 1/2"	6-24-13	15 Years	Republic Rubber Co.
FB. 1	1,300'	Keystone	2 3/4"	3-2-15	13 Years	A. G. Long Co.
FB. 1	1,800'	Boston	2 3/4"	3-2-15	13 Years	Boston Woven Hose.
FB. 1	1,100'	Boston	3 1/2"	3-2-15	13 Years	Boston Woven Hose.
FB. 1	1,000'	Victor	3 1/2"	7-1-25	3 Years	Munnell & Sherrill.
FB. 2	1,950'	Keystone	2 3/4"	5-04	24 Years	A. G. Long Co.
FB. 2	600'	Keystone	2 3/4"	3-2-15	13 Years	A. G. Long Co.
FB. 2	2,100'	Boston	2 3/4"	3-2-15	13 Years	Boston Woven Hose.
FB. 2	800'	Boston	3 1/2"	3-2-15	13 Years	Boston Woven Hose.
FB. 2	650'	Keystone	3 1/2"	5-04	24 Years	A. G. Long Co.
FB. 2	1,000'	Victor	3 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 1	350'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 2	350'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 3	400'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 4	400'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 5	100'	Keystone	1 1/2"	10-26-12	16 Years	A. G. Long Co.
E. 5	150'	Victor	1 1/2"	2-1-23	5 Years	Munnell & Sherrill.
E. 6	200'	Keystone	1 1/2"	3-8-15	13 Years	A. G. Long Co.
E. 6	200'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 7	300'	Keystone	1 1/2"	1-8-05	23 Years	A. G. Long Co.
E. 8	300'	Victor	1 1/2"	11-22-22	6 Years	Munnell & Sherrill.
E. 8	100'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 9	200'	Victor	1 1/2"	8-27-23	5 Years	Munnell & Sherrill.
E. 10	300'	Keystone	1 1/2"	3-2-11	17 Years	A. G. Long Co.
E. 12	150'	Keystone	1 1/2"	11-23-16	12 Years	A. G. Long Co.
E. 12	100'	Keystone	1 1/2"	8-18-24	4 Years	A. G. Long Co.
E. 13	100'	Keystone	1 1/2"	3-2-11	17 Years	A. G. Long Co.
E. 13	300'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 14	200'	Keystone	1 1/2"	3-2-15	13 Years	A. G. Long Co.
E. 15	400'	Cracker Jack	1 1/2"	5-10-26	2 Years	Howard-Cooper.
E. 16	400'	Cracker Jack	1 1/2"	5-10-26	2 Years	Howard-Cooper.
E. 17	150'	Victor	1 1/2"	2-1-23	5 Years	Munnell & Sherrill.
E. 17	150'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 18	50'	Keystone	1 1/2"	1-8-11	17 Years	A. G. Long Co.
E. 18	250'	Keystone	1 1/2"	11-23-16	12 Years	A. G. Long Co.
E. 19	200'	Keystone	1 1/2"	5-14-18	10 Years	A. G. Long Co.
E. 19	200'	Boston	1 1/2"	3-2-15	13 Years	Boston Woven Hose.
E. 20	200'	Keystone	1 1/2"	11-23-16	12 Years	A. G. Long Co.
E. 20	200'	Victor	1 1/2"	2-1-23	5 Years	Munnell & Sherrill.
E. 21	300'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 22	300'	Victor	1 1/2"	2-1-23	3 Years	Munnell & Sherrill.

HOSE REPORT—BUREAU OF FIRE—NOVEMBER 30, 1928—Continued

Co.	Length	Brand	Size	Date Purchased	Age January, 1928	Agent
E. 23	200'	Keystone	1 1/2"	3-8-15	13 Years	A. G. Long Co.
E. 24	150'	Keystone	1 1/2"	8-18-24	4 Years	A. G. Long Co.
E. 24	150'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
E. 25	300'	Victor	1 1/2"	2-1-23	5 Years	Munnell & Sherrill.
E. 26	300'	Victor	1 1/2"	8-3-21	7 Years	Munnell & Sherrill.
E. 27	150'	Keystone	1 1/2"	8-18-24	4 Years	A. G. Long Co.
E. 27	200'	Cracker Jack	1 1/2"	6-24-13	5 Years	Am. Rubber Co.
E. 28	250'	Boston	1 1/2"	3-2-15	3 Years	Boston Woven Hose.
E. 28	50'	Victor	1 1/2"	2-1-23	5 Years	Munnell & Sherrill.
E. 29	300'	Victor	1 1/2"	8-3-21	7 Years	Munnell & Sherrill.
E. 30	200'	Victor	1 1/2"	8-3-21	7 Years	Munnell & Sherrill.
E. 31	400'	Paragon	1 1/2"	8-15-12	6 Years	Eureka Fire Hose. Mfg.
E. 31	100'	Victor	1 1/2"	8-3-21	7 Years	Munnell & Sherrill.
E. 32	200'	Victor	1 1/2"	2-1-23	5 Years	Munnell & Sherrill.
E. 33	150'	Keystone	1 1/2"	3-2-15	13 Years	A. G. Long Co.
E. 33	50'	Keystone	1 1/2"	1-8-05	23 Years	A. G. Long Co.
E. 33	100'	Boston	1 1/2"	4-16-15	13 Years	Boston Woven Hose.
FB. 1	450'	Keystone	1 1/2"	3-2-15	13 Years	A. G. Long Co.
FB. 1	100'	Cracker Jack	1 1/2"	6-24-13	15 Years	Am. Rubber Co.
FB. 2	100'	Amazon	1 1/2"	1-15-13	15 Years	Gorham Revere Co.
FB. 2	200'	Keystone	1 1/2"	3-2-15	13 Years	A. G. Long Co.
Tr. 1	200'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
Tr. 2	200'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
Tr. 3	200'	Victor	1 1/2"	7-1-25	3 Years	Munnell & Sherrill.
Tr. 4	200'	Keystone	1 1/2"	3-8-15	13 Years	A. G. Long Co.
Tr. 5	50'	Victor	1 1/2"	11-22-22	6 Years	Munnell & Sherrill.
Tr. 5	200'	Keystone	1 1/2"	1-8-05	23 Years	A. G. Long Co.

CHEMICAL HOSE*

Co.	Length	Brand	Size	Date Purchased	Age January, 1928	Agent
Ch. 1	500'	Eureka	1"	5-18-28	6 Mos.	Howard-Cooper Corp.
Ch. 2	500'	Eureka	1"	6-18-28	5 Mos.	Howard-Cooper Corp.
Sq. 1	200'	Bonanza	3/4"	11-1-27	1 Year	Am. Rubber Mfg. Co.
Sq. 2	150'	Am. La France	1"	3-15-24	4 Years	A. G. Long Co.
E. 2	250'	Eureka	1"	11-1-26	2 Years	Howard-Cooper Corp.
E. 5	250'	Live Oak	1"	4-14-26	2 Years	Munnell & Sherrill.
E. 9	250'	Live Oak	1"	4-11-26	2 Years	Munnell & Sherrill.
E. 11	200'	Bonanza	1"	6-17-24	4 Years	Am. Rubber Mfg. Co.
E. 12	250'	Am. La France	1"	4-10-20	8 Years	A. G. Long Co.
E. 15	250'	Live Oak	1"	10-20-27	1 Year	Munnell & Sherrill.
E. 17	200'	Bonanza	1"	5-4-24	4 Years	Am. Rubber Mfg. Co.
E. 18	250'	Am. La France	1"	4-10-20	8 Years	A. G. Long Co.
E. 23	250'	Bonanza	1"	1-13-26	2 Years	Am. Rubber Mfg. Co.
E. 25	200'	Live Oak	1"	7-12-23	5 Years	Munnell & Sherrill.
E. 26	250'	Live Oak	1"	10-10-27	1 Year	Munnell & Sherrill.
E. 27	200'	Bonanza	1"	6-17-24	4 Years	Am. Rubber Mfg. Co.
E. 29	200'	Bonanza	1"	9-12-24	4 Years	Am. Rubber Mfg. Co.
E. 30	250'	Am. La France	1"	10-29-21	7 Years	A. G. Long Co.
E. 32	300'	Live Oak	1"	10-17-27	1 Year	Munnell & Sherrill.
E. 33	250'	Am. La France	1"	4-3-20	8 Years	A. G. Long Co.
E. 34	150'	Am. La France	1"	3-15-24	4 Years	A. G. Long Co.
E. 36	200'	Am. La France	1"	4-3-20	8 Years	A. G. Long Co.
E. 37	250'	Live Oak	1"	4-14-26	2 Years	Munnell & Sherrill.
Tr. 4	150'	Live Oak	1"	2-29-23	5 Years	Munnell & Sherrill.
Tr. 6	250'	Am. La France	1"	4-10-20	8 Years	A. G. Long Co.
Tr. 7	250'	Bonanza	1"	1-13-26	2 Years	Am. Rubber Mfg. Co.
Extra	150'	Am. La France	1"	3-15-24	4 Years	A. G. Long Co.

* Chemical hose purchased in 1928 tested in August at 400 pounds pressure.

HOSE TESTED AT 400 POUNDS PRESSURE, AUGUST, 1928

Co.	Length	Brand	Size	Date Purchased	Age January, 1928	Agent
E. 5	2,000'	Victor	2½"	3-2-28	8 Mos.	Munnell & Sherrill.
E. 6	2,000'	Victor	2½"	3-2-28	8 Mos.	Munnell & Sherrill.
E. 10	1,000'	Victor	2½"	3-2-28	8 Mos.	Munnell & Sherrill.
E. 19	2,000'	Victor	2½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 28	2,000'	Victor	2½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 31	2,000'	Victor	2½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 33	2,000'	Victor	2½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 5	400'	Victor	1½"	3-2-28	8 Mos.	Munnell & Sherrill.
E. 10	400'	Victor	1½"	3-2-28	8 Mos.	Munnell & Sherrill.
FB. 2	200'	Victor	1½"	3-2-28	8 Mos.	Munnell & Sherrill.
FB. 3	200'	Victor	1½"	3-2-28	8 Mos.	Munnell & Sherrill.
E. 19	200'	Victor	1½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 28	200'	Victor	1½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 31	300'	Victor	1½"	5-4-28	6 Mos.	Munnell & Sherrill.
E. 33	300'	Victor	1½"	5-4-28	6 Mos.	Munnell & Sherrill.

* Note: Old hose from Engine 19 sent to Engine 11, service 10-31-28; old hose from Engine 28 sent to Engine 34, service 11-1-28; old hose from Engine 31 sent to Engine 37, service 10-30-28; old hose from Engine 33 sent to Engine 30, service 11-1-28; some hose from Engine 5 sent to Engine 34, service 11-1-28.

FINANCIAL REPORT, BUREAU OF FIRE, FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

Appropriations—		
Salaries	\$1,200,163.85	
New equipment	17,117.50	
Operation and maintenance	77,625.94	
Total appropriation		\$1,294,907.29
Expenditures—		
Salaries	\$1,194,842.73	
New equipment	16,901.52	
Operation and maintenance	77,188.04	
Total expenditures		1,288,932.30
Balance		\$ 5,874.99

SUMMARY OF OPERATING EXPENSES DURING YEAR

Salaries—		
Executive and clerical	\$ 21,879.19	
Fire prevention	10,085.00	
Fire alarm telegraph	22,571.38	
Hydrant and plumbing	5,545.00	
Fire Dept. operation and maintenance	919,807.12	
Shop	1,527.23	
Salary Increase Fund	212,787.81	\$1,194,842.73
Equipment—		
Office	\$ 129.00	
Household	885.26	
Auto	4,247.08	
General:		
Hose	7,400.00	
Foam for fireboats	1,500.00	
Miscellaneous	2,740.19	16,901.53
Operating Expense—		
Repairs	\$ 39,575.69	
Supplies	28,744.42	
Material	6,029.96	
General service	528.18	
Transport	1,253.67	
Telephone and telegraph	39.40	
Light and power	92.01	
Volunteer hose companies	300.00	
Contingencies	624.70	77,188.04
Total expenditures		\$1,288,932.30

ACTION REPORT, BUREAU OF FIRE, FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

Box alarms answered	1,536
Telephone alarms answered	3,376
Still alarms answered	165
First aid calls answered	126
Miles traveled	9,689
Total hours pumpers worked	244
Total hours apparatus worked at fires	3,061½
Feet of ladder used	21,550
Feet of 2½-inch hose laid	295,400
Feet of 1½-inch hose laid	50,250
Feet of chemical hose laid	56,445
Gallons of chemical used	14,514
Number of chemical tanks used	300
Number of fire extinguishers used	344½
Number of salvage covers used	121
Number of rolls roofing paper used	38½
Number of times breathing apparatus used	84

WORK PERFORMED BY EACH COMPANY FISCAL YEAR ENDING
NOVEMBER 30, 1928

Company	Miles Run	Feet of Hose Laid		Feet of Ladder Raised	Gallons Chemical Used	Time Worked	
		2½"-1½"	Chemical			Hrs.	Min.
Engine 1	121.6	18,850		76		80	2
Truck 1	99.3	550		4,286	37	80	14
Squad 1	568.1		6,750	138	1,044	176	49
Engine 2	119.6	15,700	1,550	174	286	44	49
Engine 3	167.7	23,600		80	21	85	18
Truck 3	223.7	300		2,489	39	67	46
Engine 4	170.2	10,800				73	14
Truck 2	186.4	150		2,588	54	118	11
Engine 5	122.0	5,950	1,400	163	295	52	47
Engine 6	83.9	13,250		144	12	65	20
Engine 7	166.3	9,900		12	15	55	40
Truck 4	515.2	150	1,300	2,276	458	105	51
Engine 8	295.5	8,500		144	20	123	9
Truck 5	548.6		1,800	1,612	361	95	8
Engine 9	333.5	9,200		246	326	77	4
Truck 6	492.5		2,950	1,719	466	71	21
Engine 10	126.6	7,400		46		41	21
Engine 11	29.2	1,000	100		43	5	50
Engine 12	191.9	9,800	1,200	233	338	74	36
Engine 13	281.3	18,050	250	228	65	89	53
Engine 14	322.9	7,750		216	15	68	9
Engine 15	48.7	2,400	325	204	108	20	45
Engine 16	151.6	12,576	400	44	117	51	23
Engine 17	125.9	10,000	1,650	148	415	57	12
Engine 18	261.2	5,500	1,400	204	260	64	41
Engine 19	187.4	2,850		60	5	39	27
Engine 20	170.3	7,700		132	5	39	27
Engine 21	124.2	24,350		23	12	62	33
Ch. 1	187.5		7,325	353	3,005	92	53
Engine 22	178.7	27,200		60		109	25
Ch. 2	333.4		14,750	252	3,734	107	35
Engine 23	146.6	10,300	1,195	113	279	87	2
Engine 24	233.8	10,300		204	40	38	6
Truck 7	196.7		900	459	186	-26	25
Engine 25	400.8	9,300	800	298	436	75	23
Engine 26	146.4	9,000	4,000	321	494	79	7
Engine 27	166.9	8,600	600	306	120	49	50
Engine 28	216.6	5,150	750	250	75	73	11
Engine 29	161.2	6,850	200	170	123	50	43
Engine 30	242.2	5,160	500	124	186	32	1
Engine 31	444.6	12,200	650	274	418	108	8
Engine 32	154.8	5,000	400	44	136	42	19
Engine 33	25.0	1,500	650	36	200	9	15
Engine 34	15.6			37	3	4	5
Engine 36	8.6	1,650		22		4	24
Engine 37	14.0		150	12	106	5	24
F.B. 1	48.4	1,000				41	46
F.B. 2	77.4	200		38		9	41
F.B. 3	7.7			38	3	5	45

PENSIONED MEMBERS
SERVICE PENSION

Name	Rank	Date Retired
A. W. Dolson	Captain	July 9, 1918
D. L. Penney	Hoseman	May 15, 1921
J. B. Simpson	Captain	Dec. 1, 1921
J. E. Young	Chief Engineer	July 1, 1923
T. J. Petersen	Hoseman	Oct. 1, 1923
C. W. Pierce	Hoseman	Nov. 1, 1923
James S. Freeman	Hoseman	Aug. 1, 1924
Ed. McDonald	Hoseman	Sept. 1, 1924
J. G. Stevens	Captain	Dec. 10, 1925
Lee G. Holden	Chief Engineer	April 21, 1928
Hiram B. Hatcher	Hoseman	Dec. 31, 1927

PENSIONED ON ACCOUNT OF SICKNESS

Name	Rank	Date Pensioned
H. H. Beaumont	Engineer	Nov. 1, 1920
T. C. Smith	Engineer	April 4, 1917
F. O. Johnson	Hoseman	June 1, 1917
J. H. Bateman	Hoseman	April 21, 1920
C. O. Williams	Engineer	July 1, 1921
H. Wright	Hoseman	Jan. 21, 1922
Joe Wynett	Hoseman	April 30, 1922
George Ritches	Hoseman	Oct. 9, 1922
A. W. Gates	Master	June 6, 1923
F. L. Jaques	Hoseman	May 19, 1923
W. J. Tolson	Hoseman	Feb. 14, 1924
John M. Wise	Hoseman	Dec. 1, 1926

PENSIONED ON ACCOUNT OF INJURY

F. E. Bailey, lineman, Oct. 3, 1922.

WIDOWS—HUSBAND DIED OF SICKNESS

Mrs. L. P. Brown	Widow	L. P. Brown
Mrs. Gertrude Antonisen	Widow	E. Antonisen
Mrs. A. A. McKenzie	Widow	A. A. McKenzie
Mrs. Alice M. Viaene	Widow	A. L. Viaene
Mrs. Marie Cunningham	Widow	A. B. Cunningham
Mrs. Fred B. May	Widow	Fred B. May
Mrs. Mary E. Tooley	Widow	E. E. Tooley
Mrs. A. L. McMartin	Widow	A. L. McMartin
Mrs. H. E. Chandler	Widow	O. E. Chandler
Mrs. M. Laudenklos	Widow	M. Laudenklos
Mrs. A. F. Reeves	Widow	A. F. Reeves
Dora Dell Slaughterback	Widow	W. Slaughterback
Helen Burgess	Widow	John E. Burgess
Letty L. Olsen	Widow	A. C. Olsen
Rowena B. Wilbur	Widow	William E. Wilbur
Doris B. Oberg	Widow	Carroll W. Oberg
Mrs. Velma A. Phillips	Widow	O. R. Phillips
Marion J. Phillips	Widow	W. L. Phillips

WIDOWS—HUSBAND KILLED IN SERVICE

Mrs. Etta M. Gunster.....	Widow	Karl Gunster
Mrs. O. Lehman.....	Widow	O. L. Lehman
Mrs. O. B. Gabriel.....	Widow	O. B. Gabriel
Mrs. Grace Rittenour.....	Widow	F. H. Rittenour
Mrs. Etta Wefel.....	Widow	A. W. Wefel
Clara A. Ryan.....	Widow	Chas. A. Ryan
Mrs. W. J. McCreery.....	Widow	W. J. McCreery

MOTHER OF DECEASED MEMBER

Mrs. Hattie Linter, mother of B. J. Linter.

FATHER DIED ON ACCOUNT OF SICKNESS

Mary Tannler, guardian of Wm. L. and Lorraine M. Jaques, children of Wm. E. Jaques.

FATHER KILLED IN PERFORMANCE OF DUTY

Gladdis E. Erickson, guardian of Bertha and May Gustafson, children of E. G. Gustafson.

PENSIONS DISCONTINUED AT DEATH

Name	Rank	Died
B. F. Dowell.....	Chief Engineer	April 26, 1928
C. F. Neale.....	Captain	March, 1928
Mrs. M. W. Weidler.....	Widow	Mar. 18, 1928
Mrs. J. S. Baldwin.....	Widow	Dec. 30, 1927
Mrs. Elizabeth M. Kieling.....	Widow	Dec. 30, 1927

FINANCIAL REPORT OF FIREMEN'S RELIEF AND PENSION BOARD
FOR YEAR ENDING NOVEMBER 30, 1928

Receipts—		
Amount received from taxes.....	\$ 34,285.85	
Amount received from interest on bonds...	12,520.11	
Amount received from salary dues.....	11,909.82	
Amount received from donations.....	132.00	
Total receipts		\$ 58,847.78
Expenditures—		
Amount spent for pensions.....	\$ 51,099.03	
Amount spent for injuries.....	8,011.05	
Amount spent for sickness.....	3,014.25	
Amount spent for stationery.....	8.40	
Amount spent for funerals.....	600.00	
Total expenditures		62,732.73
Deficit		\$ 3,884.95
Total funds on hand November 30, 1928—		
Cash	\$ 7,383.48	
Amount invested in bonds.....	238,000.00	
Total assets		\$245,383.48

In Memoriam

WALTER J. PHILLIPS

Master Mechanic, Municipal Shop.
Appointed, September 7, 1903.
Died, March 22, 1928.
Cause, Diabetes.

W. J. McCREERY

Hoseman, Truck Company No. 3.
Appointed, February 4, 1928.
Died, May 20, 1928.
Cause, Killed in line of duty.

CHAS. A. RYAN

Hoseman, Truck Company No. 3.
Appointed, July 21, 1924.
Died, May 20, 1928.
Cause, Killed in line of duty.

L. N. RILEY

Ex-Captain.
Appointed, August 7, 1903.
Died, March, 1928.
Cause, Pneumonia.

C. F. NEALE

Ex-Captain.
Appointed, August 7, 1903.
Died, March, 1928.
Cause, Suicide.

B. F. DOWELL

Ex-Chief.
Appointed, July 5, 1898.
Died, April 26, 1928.
Cause, Heart disease.

FIRE MARSHAL'S OFFICE

REPORT FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

November 30, 1928.

MR. EDW. GRENFELL, CHIEF ENGINEER, BUREAU OF FIRE, CITY HALL, CITY:

Dear Sir: I have the honor of submitting herewith in compliance with the requirements of Ordinance No. 47284, a detailed report of the activities of the Fire Marshal's office, also other data relative to Fire Prevention work and fires that occurred during the year 1928.

The Fire Department responded to 2303 alarms during the year, 1791 of which were burning flues, grass fires, brush fires, false alarms, etc., at which no property loss occurred. The remaining 512 alarms entailed losses amounting to \$841,252.75.

A total of 107,098 inspections were made and 13,450 fire hazards were abated. All places of business were inspected once every three months, and practically all dwellings were inspected once during the year. This office supervised 466 oil burner installations and 192 gasoline tank and pump installations. All plans for new buildings, wherein fire protection equipment and safety devices are required were examined and passed on by this office.

The campaign against old buildings that have become fire hazards was continued, resulting in the removal of 276 such buildings. This does not include buildings voluntarily torn down, but are buildings that had been condemned by the Fire Marshal's office.

The Fire Marshal's office caused the arrest and conviction of 19 persons for violation of Fire Prevention ordinances, and fines totaling \$345 were levied by the Municipal Judges.

All fires were immediately investigated by representatives of the Fire Marshal's office, so as to determine the cause of the fire, the amount of the loss, the value of the property involved, the amount of insurance carried and any other information that might be of value in carrying on Fire Prevention Work. Where fires appeared to be of incendiary origin, a rigid investigation was made and if sufficient evidence could be secured the case was placed before the Grand Jury. A report of the activities of the Arson Squad will be found attached to this report.

Speakers were furnished for 502 public meetings. This includes meetings in schools and Boy Scout Troops. Fire Prevention was brought to the attention of the public at every opportunity. Several talks were made over the radio, and in this way the public was reached many times.

Each Saturday during the year all fire Inspectors attended a school of instruction in the Fire Marshal's office. Problems encountered by the Inspectors was discussed and a thorough study was made of all Fire Prevention Ordinances. Written examinations were given from time to time on the various subjects covered by the school.

The week of May 20-26 was observed as Clean-Up Week. In conjunction with the Nuisance Division, Bureau of Police, this office

made a check of the City for unsightly premises, and the owners of such places were ordered to clean up, and many fire hazards were abated. In co-operation with the Pacific Waste Paper Company and M. Brounstein & Son, who financed the buying, 325 tons of old paper and 40 tons of rags were bought at the Fire Stations, and many fire hazards were thus eliminated.

National Fire Prevention Week was observed October 7 to 12. The press, radio stations, civic clubs, schools, Boy Scouts, Girl Scouts and churches, co-operated with the Fire Department in the observance of this week. Home inspection blanks were given to all grade school pupils who made fire inspections of their homes and returned the filled-in blanks to the Fire Marshal's office. A Fire Prevention oratorical contest was conducted in the high schools and the winner in each school competed at a Fire Prevention rally held at the Municipal Auditorium, October 12. The winner of this contest was awarded, as a prize, a trip to the International Fire Chiefs' Convention, held at Philadelphia. The playlet's "The Trial by Fire" and "The Defeat of Major Disaster" were enacted by the pupils at 37 public schools during the week.

A special court of honor was held for Boy Scouts where 348 fire-manship merit badges were awarded.

Attached you will find detailed reports of all facts and figures pertaining to this office during the year.

Respectfully submitted,

FRED W. ROBERTS, FIRE MARSHAL.

The following is a report of the results obtained in the special investigation of fires and fire alarms during the fiscal year, 1928:

Alarms investigated	2,303
False alarms	70
Unknown causes	39
Incendiary fires	5
Supposed incendiary fires.....	12
Persons interviewed	1,570
Persons interviewed in office.....	81
Juveniles apprehended for causing fires.....	60
Juveniles apprehended for false alarms.....	8
Municipal Court cases	18
Circuit Court cases	2
Grand jury investigations.....	2
Grand jury indictments.....	2

Raymond Whitcomb confessed to setting four fires and was sentenced to four years in the State Penitentiary by Judge Ekwall on March 13, 1928.

George C. Waldron was sentenced to five years in the State Penitentiary for being implicated in setting fire to his home and was paroled by Judge Ekwall after refunding amount paid by the insurance company and paying cost of adjustment on March 13, 1928.

FIRE MARSHAL'S ANNUAL REPORT, 1928

	Values Involved in Fires		Losses	
	Buildings	Contents	Buildings	Contents
December, 1927	\$ 843,500.00	\$ 452,925.00	\$ 61,181.54	\$ 9,215.70
January, 1928	277,900.00	90,760.00	16,815.37	10,434.80
February	999,050.00	790,000.00	13,307.95	23,696.23
March	332,850.00	810,475.00	29,015.47	19,259.54
April	361,565.00	40,100.00	16,287.17	8,824.91
May	1,011,700.00	99,850.00	17,439.57	10,466.37
June	1,343,250.00	64,160.00	14,460.51	7,145.57
July	3,501,050.00	1,115,125.00	58,888.27	271,925.72
August	433,850.00	144,850.00	10,621.11	11,194.27
September	3,652,820.00	4,938,780.00	16,127.22	40,221.77
October	2,990,000.00	470,925.00	24,970.27	33,831.40
November	445,850.00	182,500.00	23,340.21	20,141.33
Totals	\$16,202,385.00	\$ 9,200,450.00	\$ 302,454.66	\$ 538,798.09

Total Values Involved in Fires During Year \$ 25,402,835.00
 Total Losses on Fires During Year 841,252.75

	Insurance Carried		Insurance Paid	
	Buildings	Contents	Buildings	Contents
December, 1927	\$ 706,550.00	\$ 288,600.00	\$ 60,781.54	\$ 80,636.18
January, 1928	234,850.00	67,010.00	15,640.37	9,334.80
February	746,300.00	705,771.00	13,232.95	23,271.23
March	194,150.00	113,275.00	28,848.47	18,044.54
April	318,365.00	27,960.00	16,082.17	8,124.91
May	733,570.00	70,450.00	16,409.57	9,266.37
June	1,294,800.00	40,500.00	13,435.51	6,672.57
July	2,181,150.00	884,615.00	58,633.27	270,990.72
August	368,200.00	130,300.00	10,621.11	9,549.27
September	3,082,225.00	4,485,010.00	15,492.22	39,186.77
October	1,996,250.00	343,125.00	24,086.27	32,971.40
November	352,290.00	122,050.00	22,841.21	19,671.33
Totals	\$12,208,700.00	\$ 7,278,666.00	\$ 296,104.66	\$ 527,720.09

Total Fire Insurance Involved \$ 19,487,366.00
 Total Insurance Paid 823,824.75

NUMBER OF FIRES AND THE AMOUNT OF LOSS IN DIFFERENT CLASSES OF BUILDINGS DURING THE FISCAL YEAR ENDING NOVEMBER 30, 1928

Construction of Buildings	No. of Fires	Amount of Losses
Boats, etc.	6	\$ 5,875.00
Brick	163	365,130.01
Concrete	56	58,217.86
Frame	1,432	403,621.65
Other fires and alarms	641	8,408.23
Totals	2,303	\$841,252.75

MANNER IN WHICH ALARMS WERE RECEIVED

Month	Box	Telephone	Still	Total
December, 1927	55	353	13	421
January, 1928	16	124	12	152
February	23	146	7	176
March	25	133	7	165
April	25	131	6	162
May	23	120	8	151
June	24	80	11	115
July	36	125	14	175
August	32	201	21	254
September	24	164	10	198
October	45	85	11	141
November	29	154	10	193
Totals	357	1,816	130	2,303

ALARMS AND LOSS FIRES—1928

	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Total
Alarms Entailing Losses.....	57	28	53	45	37	42	39	51	34	45	37	44	512
Alarms—No Loss.....	364	124	123	120	125	109	76	124	220	153	104	149	1,791
Total Alarms.....	421	152	176	165	162	151	115	175	254	198	141	193	2,303
False Alarms.....	4	10	2	4	1	6	7	2	1	3	20	10	70
Days No Alarms.....							1	1		2	1	1	6

FIRES DURING THE FISCAL YEAR ENDING NOVEMBER 30, 1928,
HAVING A LOSS OF \$10,000.00 OR MORE

December, 1927—

Oregon Tile Co., 209 Broadway, Dec. 27, 1927, at 2:58 P. M.; cause, smoker's carelessness; loss	\$ 76,493.84
Pacific Asbestos Supply Co., 313-15 Front Street, Dec. 31, 1927, at 1:03 A. M.; loss.....	42,958.99

February, 1928—

Portland Outfitting Co., 195 Third Street, Feb. 15, 1928, at 6:51 P. M.; cause, unknown; loss.....	14,427.37
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March, 1928—

Royal Bakery Co., 441 Everett Street, March 15, 1928, at 10:49 A. M.; cause, oil burner back fire; loss.....	29,386.55
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July, 1928—

Columbia Knitting Mills, 214 First Street, July 17, 1928, at 7:11 P. M.; cause, unknown; loss.....	58,837.00
Sunset Electric Co., 121 North Ninth Street, July 23, 1928, at 7:55 P. M.; cause, electric short circuit; loss.....	41,139.69
Helzer Bros. Machine Works, 493 North Twenty-third Street, July 27, 1928, at 2:23 A. M.; cause, unknown; loss.....	188,367.20
Enterprise Planing Mill, 300 East Yamhill Street, July 27, 1928, at 5:55 A. M.; cause, unknown; loss.....	17,030.00

September, 1928—

Doernbecher Mfg. Co., East Twenty-eighth and Sullivan Sts., Sept. 4, 1928, at 2:28 A. M.; cause, bearing overheated; loss..	19,903.52
Imperial Laundry Co., 355 Russell Street, Sept. 27, 1928, at 6:04 P. M.; cause, tumbler overheated; loss.....	16,000.00

October, 1928—

Nudelman Shoe Store, 270 Morrison Street, Oct. 29, 1928, at 6:52 P. M.; cause, matches; loss.....	22,221.65
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November, 1928—

Shank Bag Company, 627 Wilson Street, Nov. 30, 1928, at 8:16 A. M.; cause, matches; loss.....	18,883.31
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CAUSES OF FIRES, NUMBER AND LOSS PER CAUSE FOR 1928

Cause	No. Fires	Total Loss
Acetylene torch	5	\$ 5.00
Acid explosion	1	386.00
Ashes	18	4,460.07
Attrician mill	1	
Auto back fire	32	8,902.15
Auto short circuit	64	1,974.55
Belt slipping	9	498.68
Blow torch	7	33.43
Boiler	2	
Bonfire	41	
Bonfire, sparks from	3	848.63
Brush fire	57	
Candle	3	1,182.84
Castings, sparks from	1	
Coffee roaster	2	25.00
Conveyor, sparks in	2	3,132.22
Cupola, sparks from	1	
Dump fire	13	
Electric Appliances	32	29,627.01
Electric short circuit	34	41,237.22
Electric wiring	3	3,081.13
False alarms	70	
Film explosion	2	1,541.15
Fireplace	8	1,699.78
Flue burning out	742	
Flue cleanout open	5	5,274.60
Flue defective	41	8,542.46
Flue overheated	9	1,737.82
Flue, sparks from	163	37,649.18
Food boiled dry	14	588.78
Fumigating	1	
Furnace (hard fuel)	31	4,749.50
Furnace pipes	18	3,434.73
Gas appliances	32	2,340.19
Gasoline, carelessness with	20	2,329.35
Gasoline explosion	3	1,371.50
Gasoline leaking	5	158.78
Gasoline stove	1	
Grass fire	241	
Grease burning	2	
Incendiary	5	4,475.80
Incendiary, supposed	12	20,477.45
Incinerator	1	
Kerosene lamp	2	
Kerosene stove	3	217.75
Lantern overturned	1	
Lacquer explosion	1	1,715.58
Lightning	1	
Locomotive, sparks from	1	1,989.00
Matches	66	58,411.52
Mistaken alarm	10	
Motor boat exhaust	2	
Oil burner	13	37,906.46
Outside City	75	
Oven overheated	1	
Paint boiled over	3	2,550.00
Picker, sparks from	2	2,817.34
Reflection seen	3	
Re-kinde	5	
Sawdust burner	10	241.42
Smoke scare	54	
Smokehouse defective	2	1,062.01
Smokers' carelessness	133	120,478.16
Smudge pot	1	
Spontaneous combustion	17	6,683.79

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL YEAR 1928

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Air Port	Gasoline—Carelessness with	1	1		
Apartments	Belt slipping	1			
Apartments	Candle—Carelessness with	2		\$ 1,182.84	
Apartments	Electric appliance	1			
Apartments	Electric short circuit	1			
Apartments	Flue burning out	15			
Apartments	Flue defective	3		65.00	
Apartments	Flue—Sparks from	9		1,221.49	
Apartments	Food boiled dry	3			
Apartments	Furnace (hard fuel)	1		872.94	
Apartments	Gas appliance	1			
Apartments	Gasoline—Carelessness with	1			
Apartments	Incinerator	3		1,638.63	
Apartments	Matches	2			
Apartments	Mistaken alarm	1			
Apartments	Reflection seen	1			
Apartments	Sawdust burner	4			
Apartments	Smoke scare	13		6,713.20	
Apartments	Smoker's carelessness	1			
Apartments	Sprinkler leaking	2		2,662.55	
Apartments	Stove (hard fuel)	3		248.00	
Apartments	Stove pipe	1	70	1,950.00	\$ 16,554.65
Apartments	Unknown	1			
Armory	Smoker's carelessness	1	1	450.00	450.00
Autos	Back fire	32			
Autos	Gasoline—Carelessness with	5		825.00	
Autos	Gasoline leaking	6		613.03	
Autos	Short circuit	64		1,974.85	
Autos	Smoke scare	1			
Autos	Smoker's carelessness	7		131.00	
Autos	Tarpot	1		55.00	
Autos	Torch—Carelessness with	1			
Autos	Unknown	1	118	94.00	3,692.88
Auto School	Smoke scare	1	1		
Bakery	Furnace (hard fuel)	1		442.00	
Bakery	Oil burner	2		29,386.55	
Bakery	Unknown	2	5	548.25	30,376.80
Bank	Smoke scare	1	1		
Barber Shop	Matches	1		49.50	
Barber Shop	Smoker's carelessness	1	2		49.50
Barn	Flue—Sparks from	1		700.00	
Barn	Re-kinde	2			
Barn	Matches	1			
Barn	Unknown	1	5	9,648.47	10,348.17
Bath House	Boiler explosion	1			
Bath House	Furnace (hard fuel)	1	2	400.00	400.00
Blacksmith Shop	Grease burning	1	1		
Boat	Acetylene torch	1			
Boat	Electric short circuit	1		85.00	
Boat	Exhaust back fire	2		4,015.00	
Boat	Spontaneous combustion	1	5		4,100.00

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL
YEAR 1928—Continued

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Bottling Works	Gas appliance	1	1	\$ 201.75	\$ 201.75
Bridge	Electric short circuit	1			
Bridge	Smoker's carelessness	6	7		
Cannery	Ashes	1	1		
Car Barn	Electric short circuit	1	1		
Carpenter Shop	Flue—Sparks from	1	1	5.00	5.00
Cereal Mill	Attrician Mill—Sparks from	1	1		
Chicken House	Ashes	1			
Chicken House	Matches	1	2		
Church	Blow torch	1			
Church	Flue defective	1		33.35	
Church	Furnace (hard fuel)	1			
Church	Steam scare	1			
Church	Unknown	1	5		33.35
Cleaners	Gasoline explosion	2	2	1,360.50	1,360.50
Club House	Oil burner	1	1	6,675.00	6,675.00
Comfort Station	Electric short circuit	1	1		
Cooperage	Belt slipping	2	2		
Court House	Smoker's carelessness	2	2		
Dock	Smoker's carelessness	3	3		
Dwellings	Acid explosion	1		386.00	
Dwellings	Ashes	14		1,376.23	
Dwellings	Blow torch	1		5.00	
Dwellings	Boiler—Sparks from	2		798.63	
Dwellings	Candle	1			
Dwellings	Electric appliances	11		3,826.32	
Dwellings	Electric short circuit	3		58.90	
Dwellings	Electric wiring	2			
Dwellings	Fireplace	8		1,699.78	
Dwellings	Flue burning out	675			
Dwellings	Flue cleanout open	4		1,321.09	
Dwellings	Flue defective	30		7,618.14	
Dwellings	Flue overheated	8		1,609.82	
Dwellings	Flue—Sparks from	130		24,292.51	
Dwellings	Food boiled dry	9		146.78	
Dwellings	Furnace (hard fuel)	20		2,759.53	
Dwellings	Furnace pipes	15		3,210.83	
Dwellings	Gas appliances	16		1,685.85	
Dwellings	Gasoline—Carelessness with	3		32.68	
Dwellings	Gasoline explosion	1		11.00	
Dwellings	Incendiary	2		550.00	
Dwellings	Incendiary supposed	9		12,232.60	
Dwellings	Kerosene stove	3		217.75	
Dwellings	Lightning	1			
Dwellings	Matches	39		11,187.62	
Dwellings	Oil burner	2		655.00	
Dwellings	Reflection seen	1			

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL
YEAR 1928—Continued

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Dwellings	Re-ignite	1			
Dwellings	Sawdust Burner	6		\$ 125.00	
Dwellings	Smoke scare	31			
Dwellings	Smoker's carelessness	16		6,258.88	
Dwellings	Spontaneous combustion	4		3,324.60	
Dwellings	Steam scare	2			
Dwellings	Still explosion	3		1,914.35	
Dwellings	Stoves (hard fuel)	19		6,614.58	
Dwellings	Stove pipes	20		5,342.17	
Dwellings	Tarpot	1			
Dwellings	Thawing pipes	6		408.00	
Dwellings	Unknown	16	1,136	21,493.18	\$ 121,162.82
Factories—					
Asbestos	Re-ignite	1			
Asbestos	Unknown	1		32,500.00	
Broom	Ashes	1		4,051.00	
Candy	Oil burner	1			
Cereal Mill	Belt slipping	3		448.68	
Furniture	Electric appliance	1		19,903.52	
Furniture	Furnace (hard fuel)	3		300.00	
Furniture	Picker—Sparks from	1		617.34	
Furniture	Sawdust burner	1		116.44	
Furniture	Spontaneous combustion	1			
Furniture	Sprinkler leaking	2			
Furniture	Stove (hard fuel)	1		778.44	
Furniture	Sprinkler leaking	2			
Handle	Unknown	1		58,837.00	
Knitting Mill	Furnace (hard fuel)	1			
Mattress	Picker—Sparks from	1		2,200.00	
Mattress	Paint vat boiled over	1		2,500.00	
Paint	Spontaneous combustion	1			
Paint	Electric appliance	1		500.00	
Sash and Door	Sprinkler leaking	1			
Textile	Sprinkler leaking	1			
Vacant	Stack—Sparks from	1	28		122,752.42
Woodworking					
False Alarms	Malicious	70	70		
Filling Station	Electric short circuit	1			
Filling Station	Gas appliance	1	2	321.19	321.19
Flats	Ashes	1			
Flats	Flue—Burning	16			
Flats	Flue—Defective	2		50.00	
Flats	Flue—Sparks from	1		20.00	
Flats	Furnace (hard fuel)	1			
Flats	Furnace pipe	1		223.90	
Flats	Gas appliances	2		64.20	
Flats	Gasoline—Carelessness with	1		94.00	
Flats	Incendiary	1		3,075.85	
Flats	Incendiary—Supposed	1		1,570.85	
Flats	Matches	5		781.58	
Flats	Mistaken alarm	1			
Flats	Smoker's carelessness	2		626.84	
Flats	Stove pipe	1	36	106.00	6,613.22
Flats					
Foundry	Acetylene torch	1			
Foundry	Castings—Sparks from	1			
Foundry	Cupola	1			
Foundry	Electric short circuit	1		186.70	

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL YEAR 1928—Continued

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Foundry	Flue—Sparks from	1		\$ 257.25	
Foundry	Kerosene torch	1			
Foundry	Oil burner	1			
Foundry	Oven overheated	1			
Foundry	Smoker's carelessness	2			
Foundry	Tarpot overheated	1	11		\$ 443.95
Freight Car	Kerosene lamp	1	1		
Garage	Blow torch	1			
Garage	Electric appliance	1		11.33	
Garage	Electric short circuit	1		300.00	
Garage	Flue burning out	2			
Garage	Furnace (hard fuel)	1			
Garage	Gasoline—Carelessness with	7		915.85	
Garage	Matches—Carelessness with	3		153.80	
Garage	Oil burner	1			
Garage	Smoke scare	5			
Garage	Smoker's carelessness	4		200.00	
Garage	Spontaneous combustion	2		125.00	
Garage	Unknown	2	30	4,078.91	5,784.89
Greenhouse	Furnace (hard fuel)	1	1	400.00	400.00
Hall	Flue burning out	2	2		
Hospital	Electric appliance	1			
Hospital	Paint boiled over	1	2	50.00	50.00
Hotel	Electric appliance	2		52.66	
Hotel	Flue burning out	8			
Hotel	Flue—Sparks from	1		224.00	
Hotel	Oil burner	2		200.00	
Hotel	Smoke scare	1			
Hotel	Smoker's carelessness	17		5,331.31	
Hotel	Sprinkler leaking	1			
Hotel	Steam scare	1	33		5,807.97
Houseboat	Smoker's carelessness	1	1	1,775.00	1,775.00
Incinerator	Smoker's carelessness	1	1		
Junk Shop	Oil burner	1	1		
Laundry	Boiler	1			
Laundry	Conveyor—Sparks in	1		3,132.22	
Laundry	Electric appliance	1		15.20	
Laundry	Sawdust burner	2			
Laundry	Spontaneous combustion	1			
Laundry	Steam scare	1			
Laundry	Tumbler overheated	1	8	16,000.00	19,147.42
Lumber Yard	Conveyor—Sparks in	2	2		
Machine Shop	Stove (hard fuel)	1			
Machine Shop	Unknown	1	2	188,367.20	188,367.20
Market	Belt slipping	2		50.00	
Market	Flue burning out	1	3		50.00
Motorcycle	Gasoline leaking	1	1	10.00	10.00

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL YEAR 1928—Continued

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Office Building	Acetylene torch	1			
Office Building	Electric appliance	1			
Office Building	Electric short circuit	3			
Office Building	Flue burning out	2			
Office Building	Gas appliance	1		\$ 29.80	
Office Building	Matches	1			
Office Building	Smoker's carelessness	12	21	1,169.28	\$ 1,199.08
Outside City		75	75		
Packing Plant	Smokehouse	2	2	1,062.01	1,062.01
Paint Shop	Spontaneous combustion	2	2	438.74	438.74
Paving Plant	Vat boiled over	1	1		
Planing Mill	Unknown	1	1	17,500.00	17,500.00
Plating Works	Smoker's carelessness	1	1		
Plumbing Shop	Oil burner	1	1		
Pool Hall	Lacquer explosion	1		1,715.58	
Pool Hall	Smoker's carelessness	1	2	1,281.57	2,997.15
Printers	Electric short circuit	3		397.18	
Printers	Gasoline—Carelessness with	1			
Printers	Smoke scare	1	5		397.18
Restaurant	Electric short circuit	1		35.00	
Restaurant	Flue burning out	1			
Restaurant	Food boiled dry	2			
Restaurant	Gas appliance	5		35.00	
Restaurant	Grease burning	1			
Restaurant	Lantern	1			
Restaurant	Smoker's carelessness	5		8,577.79	
Restaurant	Spontaneous combustion	1			
Restaurant	Steam scare	1			
Restaurant	Stove (hard fuel)	1			
Restaurant	Unknown	2	21	12,530.19	21,177.98
Rooming House	Ashes	1		73.84	
Rooming House	Electric short circuit	2		25.00	
Rooming House	Flue burning out	15			
Rooming House	Flue cleanout	1		3,952.70	
Rooming House	Flue defective	5		997.41	
Rooming House	Flue overheated	1		128.00	
Rooming House	Flue—Sparks from	15		7,877.50	
Rooming House	Food boiled dry	1		300.00	
Rooming House	Furnace (hard fuel)	1		15.00	
Rooming House	Furnace pipe	1			
Rooming House	Gas appliance	1			
Rooming House	Gasoline stove	1			
Rooming House	Incendiary	1		800.00	
Rooming House	Matches	2		556.50	
Rooming House	Smoke scare	2			
Rooming House	Smoker's carelessness	8		693.14	
Rooming House	Stove (hard fuel)	4		2,254.63	
Rooming House	Stove pipe	1			
Rooming House	Unknown	1	64	2,618.40	20,292.12
Sawmill	Electric appliance	2	2		

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL YEAR 1928—Continued

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Schools	Flue—Sparks from	2			
Schools	Gas appliance	1			
Schools	Smoke scare	1	4		
Shacks	Matches	4		\$ 330.00	
Shacks	Smoker's carelessness	2			
Shacks	Unknown	1	7		\$ 330.00
Shoe Repair	Spontaneous combustion	1	1	452.85	452.85
Stores—					
Art Goods	Electric appliance	1		1,532.07	
Art Goods	Flue burning out	1			
Auto Supply	Smoker's carelessness	2			
Bldg. Material	Smoker's carelessness	1		378.03	
Cigar	Smoker's carelessness	1		50.00	
Clothing	Smoke scare	1			
Clothing	Unknown	1		14,427.36	
Confectionary	Belt slipping	1			
Confectionary	Electric appliance	1			
Confectionary	Indendiary	1		50.00	
Confectionary	Smoke scare	1			
Confectionary	Smoker's carelessness	2		771.74	
Confectionary	Unknown	1		6,052.68	
Department	Belt slipping	1		204.50	
Department	Electric appliance	3		3,776.28	
Department	Spontaneous combustion	1		150.00	
Department	Sprinkler leaking	2			
Drug	Bonfire—Sparks from	1		50.00	
Drug	Flue burning	2			
Drug	Gas appliance	2			
Electric	Electric short circuit	2		41,139.69	
Electric	Spontaneous combustion	2		110.00	
Fruit	Smoker's carelessness	1		407.33	
Furniture	Flue—Burning	1			
Furniture	Paraffine	1			
Grocery	Coffee roaster—Sparks from	1		25.00	
Grocery	Electric appliance	2			
Grocery	Electric short circuit	1		666.24	
Grocery	Flue burning	2			
Grocery	Flue—Sparks from	1		16.90	
Grocery	Matches	1			
Grocery	Smoke scare	2			
Grocery	Smoker's carelessness	3		2,575.00	
Grocery	Sprinkler leaking	1			
Grocery	Stoves (hard fuel)	2		2,159.65	
Hardware	Flue burning out	2			
Hardware	Stove (hard fuel)	1			
Jewelry	Smoker's carelessness	1			
Music	Electric appliance	1			
Notion	Mistaken alarm	1			
Optical	Electric wiring	1		3,081.13	
Paint	Smoker's carelessness	1			
Paint	Spontaneous combustion	1		2,082.60	
Produce	Gas appliance	1			
Produce	Smoker's carelessness	1		2,000.00	
Second-hand	Blow torch	1			
Second-hand	Electric short circuit	1		50.25	
Second-hand	Smoker's carelessness	2		48.00	
Shoe	Ashes	1		10.00	
Shoe	Matches	1		22,310.14	

CAUSES AND LOSSES OF FIRES AS PER OCCUPANCY FISCAL YEAR 1928—Continued

Occupancy	Cause of Fire	No. per Cause	No. per Occupancy	Loss per Cause	Loss per Occupancy
Stores—Continued					
Shoe	Sander—Sparks from	1			
Shoe	Smoker's carelessness	1		\$ 90.10	
Tailor	Blow torch	1		30.00	
Tailor	Electric appliance	1		10.00	
Tailor	Fumigating	1			
Tailor	Incendiary supposed	1		6,674.00	
Tailor	Re-ignite	1			
Tailor	Smoker's carelessness	1		469.99	
Tailor	Unknown	1		4,568.50	
Tailor	Unknown	1		76,493.84	
Tile	Smoker's carelessness	1			
Vacant	Matches	2			
Vacant	Smoker's carelessness	1			
Woolen	Smoker's carelessness	1	80	37.50	8 192,496.52
Street Car	Reflection	1			
Street Car	Short circuit	3		75.00	
Street Car	Smoker's carelessness	1			
Street Car	Trolley—Sparks from	1			
Street Car	Unknown	1	8	4,640.35	4,715.35
Sub-station	Electric short circuit	2	2		
Tarpot	Overheated	3	3		
Telephone Exch.	Flue burning out	1	1		
Telephone Pole	Electric short circuit	4	4		
Theatre	Film explosion	2		1,541.15	
Theatre	Mistaken alarm	1			
Theatre	Oil burner	1		989.91	
Theatre	Smoke scare	1			
Theatre	Smoker's carelessness	2	7	145.00	2,676.06
Vacant Lots	Bonfire	41			
Vacant Lots	Brush fire	57			
Vacant Lots	Dump fire	13			
Vacant Lots	Grass fire	241	352		
Warehouse	Coffee roaster	1			
Warehouse	Electric appliance	1			
Warehouse	Locomotive—Sparks from	1		1,989.00	
Warehouse	Matches	1		20,000.00	
Warehouse	Mistaken alarm	1			
Warehouse	Sawdust burner	1			
Warehouse	Smoker's carelessness	4		5,058.05	
Warehouse	Sprinkler leaking	6			
Warehouse	Unknown	1	19	1,504.68	28,551.73
Wood Saw	Back fire	2	2		
Wood Shed	Smoker's carelessness	2	2	32.00	32.00
Wood Yard	Acetylene torch	1	1		
Totals			2,303		\$ 841,252.75

BUREAU OF GARBAGE DISPOSAL

January 2, 1929.

HON. C. A. BIGELOW, COMMISSIONER OF PUBLIC AFFAIRS, CITY HALL:

Dear Sir: I herewith submit to you the annual report of the Bureau of Garbage Disposal for the fiscal year ending November 30, 1928.

The total tonnage of garbage and rubbish disposed at the Incinerator and Greeley Cut-Off fill during the past year, amounted to 81,912½ tons, a decrease of 16,820½ tons in comparison with the 1927 tonnage. Short fruit and vegetable crops cut down the usual heavy waste, that always occur with a heavy fruit season and over-supplied markets. Several large canneries installed waste disposal equipment at their plants and have during the last canning season disposed of their cannery waste, this cut down the tonnage materially. The saving of waste paper by scavengers takes out several more thousand tons per year.

The increasing demand for waste paper by paper mills located in the northwest is effecting the operation cost of the Incinerator considerable, the paper furnished the fuel for the burning of the garbage and when taken out of the garbage it is necessary to replace the paper with other fuel, rubbish is now relied on for fuel. The uncertainty of the supply makes storing a necessity for such times when no rubbish is received. High prices made the saving of paper attractive, a large percentage of the apartment house and private home garbage is being wrapped in paper before being placed into the garbage can. Lately a number of scavengers have made it their practice to unwrap the bundles for the paper, in doing this they use the public streets for the sorting and unwrapping in plain view of the public. This practice should be considered a public nuisance and stopped by ordinance.

In the face of the many handicaps which have made operations of the incinerator at times very difficult, due to the inefficient private collection system, the plant has come up to its expectations regards to performance, low operation and maintenance cost. The plant was in operation 14 hours per day during the past year, consuming 28,911½ tons of garbage and rubbish at a cost of 75 cents per ton.

GREELEY CUT-OFF FILL

Since the opening of this fill May 1, 1925, we have disposed here, 79,028 loads of garbage and rubbish, estimated at 160,608 tons, in addition 1100 loads of brush and other bulky rubbish were burnt at the fill, at a total cost of \$57,586.45. Of this amount, 26,165 loads or 52,793½ tons had been disposed during the past year's work, at a cost of \$18,874.11. Long hauls and heavier application of covering material made it necessary to employ an additional tractor at the fill. Successful operation depends on the ability of the tractors hauling

sufficient covering material to permit dumping without delay. Continuous operation at the present speed will complete the fill within 12 or 15 months.

Attached you will find tabulated statement showing amount of work performed and the cost thereof.

Respectfully submitted,

WM. G. HELBER, SUPERINTENDENT.

ANNUAL REPORT BUREAU OF GARBAGE DISPOSAL FISCAL YEAR 1928

Total Operating Expense—	
Salaries	\$41,784.71
Supplies and repairs.....	5,772.36
Equipment	182.24
Total expense	\$47,739.31
Operating Cost—	
Incinerator	\$21,879.37
Dump and ground	6,404.63
Greeley Cut-Off fill.....	18,874.11
Alberta Street fill.....	581.20
Total cost	\$47,739.31
Cost of Disposal Per Ton—	
Labor	\$.42½
Supplies and repairs.....	.06½
Equipment .....	.00½
Total average cost of disposal per ton.....	\$.49½
Cost of Disposal at the Incinerator—	
Labor	\$.73
Supplies and repairs.....	.01½
Equipment .....	.00½
Total cost of incineration per ton.....	\$.75
Cost of Disposal at Greeley Cut-Off Fill—	
Labor	\$.27
Supplies and repairs .....	.10
Total cost of disposal at fill.....	\$.37
Amount of garbage and refuse disposed, tons.....	81,912½
Average amount disposed per day, tons.....	226½
Number loads received	49,031
Average number loads received per day.....	160
Amount disposed at the incinerator per day, tons.....	94½
Average amount disposed at Greeley Cut-Off fill per day, tons.....	172
Percentage amount disposed at the incinerator.....	36½
Percentage amount disposed at Greeley Cut-Off fill.....	63½
Non-combustible refuse disposed at incinerator dump, yards.....	29,800
Combustible refuse burnt on dump, loads.....	4,229
Garbage and Refuse Disposed at the Incinerator and Fill—	
Incinerator, tons	29,119½
Greeley Cut-Off fill, tons.....	52,793½
Total number tons disposed.....	81,912½

Number Loads Received—	
Incinerator	22,866
Greeley Cut-Off fill	26,165
Total number loads received.....	49,031
Revenue Received from Disposal of Garbage and Sale of Paper—	
Garbage, 280 tons at \$1.00 per ton.....	\$ 280.00
Waste paper	80.12
Total revenue	\$ 360.12

STATEMENT OF APPROPRIATION AND EXPENDITURES

	Total Appropriation Including Transfers	Total Encumbrance	Unincumbered Balance
Personal service	\$ 42,328.00	\$ 41,784.71	\$ 543.29
Operation and maintenance.....	6,940.00	5,772.36	1,167.64
Equipment	700.00	182.24	517.76
	\$ 49,968.00	\$ 47,739.31	\$ 2,228.69
Garbage Crematory Fund....	\$112,479.17	\$103,221.32	\$ 9,257.85

INCINERATOR

Operation Cost of Incinerator—	
Salaries	\$21,240.11
Supplies and repairs.....	472.20
Equipment	167.06
Total operation cost.....	\$21,879.37
Cost of Incineration Per Ton—	
Labor	\$.73
Supplies and repairs.....	.01½
Equipment .....	.00½
Total average cost of incineration per ton.....	\$.75
Garbage and refuse incinerated, tons.....	29,119½
Average amount incinerated per day, tons.....	94½
Number loads received.....	22,866
Average number loads received per day.....	74½

INCINERATOR DUMP AND GROUNDS

Salaries	\$ 6,193.27
Supplies and repairs.....	211.36
Total cost	\$ 6,404.63

Refuse Disposed on Dump—

Estimated amount of non-combustible refuse disposed, yards...	29,800
Combustible refuse burnt on dump, loads.....	4,229

GREELEY CUT-OFF FILL

Operation Cost—	
Salaries	\$13,887.95
Supplies and repairs	4,970.98
Equipment	15.18
Total operation cost.....	\$18,874.11
Cost of Disposal Per Ton—	
Labor	\$.27
Supplies and repairs.....	.10
Total average cost of disposal per ton.....	\$.37
Estimated amount of garbage and rubbish disposed, tons.....	52,793½
Average amount disposed per day, tons.....	172
Number loads received.....	26,165
Average number loads received per day.....	85

ALBERTA STREET FILL

Operation Cost—	
Salaries	\$ 463.38
Supplies and repairs.....	117.82
Total operation cost.....	\$ 581.20

**FINANCIAL STATEMENT—BUREAU OF GARBAGE DISPOSAL—
DECEMBER 1, 1927, TO NOVEMBER 30, 1928**

	In-cinerator	Dump and Grounds	Greeley Cut-off Fill	Alberta Street Fill	Grand Total
Personal Service—					
Salaries	\$ 21,240.11	\$ 6,193.27	\$ 13,887.95	\$ 463.38	\$ 41,784.71
Supplies	55.14		1,242.70	38.90	1,283.22
	B-1				3.97
	B-6				91.60
	B-9				13.29
	B-10		56.47		93.84
Material.....	35.13	90.80	336.00		426.80
	C-1		13.29		13.29
	C-3		24.35		93.84
	C-4	62.55	6.94		182.24
Equipment	168.06		14.18		111.03
Repairs.....	33.19	56.12	21.72		3,323.26
	E-2			62.67	
	E-3				
Light, Heat and Power.....	153.60				153.60
Truck Hire.....				16.25	16.25
Telegraph.....	1.00				1.00
Plant Inspection.....	5.00				5.00
Contingencies.....	120.00	57.50	16.86		194.36
Total	\$ 21,879.37	\$ 6,404.63	\$ 18,874.11	\$ 581.20	\$ 47,739.31

BUREAU OF STREET CLEANING

Portland, Oregon, February 10, 1929.

MR. C. A. BIGELOW, COMMISSIONER, DEPT. OF PUBLIC AFFAIRS, CITY HALL:

Dear Sir: There is submitted herewith, the annual report of the Bureau of Street Cleaning for the fiscal year ending November 30, 1928.

As the results obtained from the operation of the Bureau, depend to a large extent on the kind and condition of the equipment used, it naturally follows that this report should begin with at least a reference to the trucks in operation. During the year our fleet was increased by the addition of three of the new type 1½-ton Ford trucks and two 2½-ton Republic trucks. The Fords are equipped with 1½-yard steel dump bodies and the Republics with 3-yard steel dump bodies. Both the Fords and Republics are operated by hydraulic hoists. The three old Fords T-2, T-4 and T-6, which the new Fords replaced, are still in service but are used only in emergencies and will soon be dismantled and all suitable parts salvaged. Garford truck T-7 was traded in as part of the purchase price of the two Republics. During the year, the Bureau purchased another 5-ton truck chassis which was later converted into a double unit auto flusher at the Municipal Shops. With the addition of this flusher, we now have a total of 10 flushers, eight only, however, being in actual service at the same time. The remaining two flushers are at all times held in reserve for replacement purposes.

One of the largest tasks that the Bureau is called upon to perform is the removal of leaves in the fall. The year 1928 brought us the usual amount of trouble in this regard, but as the rainfall for this period was not excessive, the leaves were removed without causing any undue inconvenience to the residents. Many are availing themselves each fall of the opportunity of getting a load or two of leaves for the family garden or for placing around shrubbery. They are delivered without charge. Anyone interested should place their orders before the leaves begin falling, in order to insure prompt delivery. The only requirement is that the place of delivery be located on an improved street and within a reasonable distance from the street from which the leaves are obtained.

Since our last report, we have found it necessary to abandon two of our principal dumps. One located at Montana Avenue and Beech Street and the other at Vancouver Avenue and Hancock Street. Both of the dumps have been used as such for years, but due to the fact that they are nearly filled and for the additional reason that they were becoming abnoxious to nearby residents, it was thought proper to discontinue dumping at these two points. In order to replace this loss, a very good dump has been established at Hancock and Flint Streets, which cares for all material formerly taken by the two abandoned dumps.

The number of miles of hard surface streets within the City

limits was increased during the year by approximately 32, bringing the total to 644 miles. There is an additional 88 miles of macadam streets, as well as 32 miles of hard surface county roads and 25 miles of macadam county roads within the City limits. Because of the increase in improved streets, it is becoming continually more difficult for us to get over our routes in the time formerly required. Hence, if the present standard of cleanliness is to be long continued, provision should be made for the operation of at least one additional flusher on a double shift basis. I recommend, therefore, that an item covering this expense be inserted in our next annual budget.

During the year the heating plant located in the west side garage building has been overhauled and a sawdust burner installed. By substituting sawdust for coal, which was formerly used for fuel, we expect to cut our fuel bill from 30 to 40 per cent.

The Bureau has also purchased a portable weed burner for use on macadam streets. The burner is operated by two men and is used in the spring after the weeds have a good start. We find that it not only saves labor, allowing us to get over the ground more often, but saves the street as well, it not being necessary to dislodge any of the rock surface in removing the weeds and grass from the side of the roadway. Much of the seed is likewise destroyed by burning, thus lessening the labor for the following year. The fuel used in operation is kerosene.

Another improvement for which the Street Cleaning Bureau is grateful is the hard surfacing of Seventeenth Street from Jefferson Street to Taylor Street. This was accomplished during the past year. As all the flushers and most of the trucks working out of the west side garage are housed in the basement, having its entrance on Seventeenth Street it is quite important that this street should be in good condition. In making the improvement, it was found necessary to raise the street grade some 18 or 20 inches. This in turn required the reconstruction of the ramps leading both to the basement and to the first floor.

Mention is here made of the fact that recently the Street Cleaning Bureau has vacated the west half of the second floor of its west side garage building. The Bureau of Police is now using this space for auto storage purposes.

Your attention is again called to the storage conditions prevailing in our East Side garage located at East Sixth and Hancock Streets. The building, which is 50x100 feet in dimensions, is much too small for our requirements. At the present time this garage is housing three auto flushers, one auto eductor, three trucks and two passenger cars as well as providing office space and a locker room for the use of employes. After putting the machines inside the building, there is not sufficient space left to properly service them or do any required repairing. The addition of a second unit similar in size and construction is greatly to be desired.

Portland was visited by only one snow storm during the year. This storm which was of short duration, started in the night of December 31, 1927, at which time snow and sleet fell. This continued during the week, the total fall for the period, January 1 to 8, inclusive, being 2.3 inches of snow and 5.7 inches of sleet. The storm

was accompanied by freezing temperatures, making the snow difficult of removal. We were also hampered for the want of proper dumps, the usual water front street ends being blocked by the work being done on the new sea wall. Dumps were provided at the foot of Clay Street and the Union Pacific Company dock on the west side of the river, and at Municipal Terminal No. 2 and the foot of East Clay Street on the east side of the river. Extra men and trucks were employed by the Bureau in fighting this storm. The total extra expense for this service being \$38,455.96, this being in addition to services performed by our regular crew. Six truck plows and one tractor plow did excellent work considering the frozen condition of the material to be moved. They were in operation for four days and nights, from January 1 to 4, inclusive, keeping the main traffic highways open as well as assisting to some extent on the main street car lines.

The unit costs of our various activities relative to street cleaning compare very favorably with the previous years. The slight raise in flushing from 25.6 cents per 1000 square yards in 1927 to 27.5 cents in 1928 is accounted for by the fact that during the past year a second reserve flusher was put in operation. Also, in the case of catch-basin cleaning, the raise from 18.2 cents per basin in 1927 to 20c in 1928 is due to the continued operation of old Eductor No. 1. Previous to the present year the basin cleaning was handled almost entirely with one eductor, but with the continued improvement of streets and installation of additional basins, it has become necessary to operate the old as well as our new eductor. To keep Eductor No. 1 in operation required numerous repairs, which are here reflected in the unit cost of cleaning. The Bureau feels, however, that it is more than compensated for this increase in cost by the additional service rendered, both as to flushing and catch-basin cleaning.

There is attached hereto a statement showing the amount of work performed during the year by the Bureau of Street Cleaning and the cost of such work, also a statement of the number of men employed, the amount of equipment operated and a financial statement.

Respectfully submitted,

GEO. A. RIES,
Supt. Bureau of Street Cleaning.

TABLE SHOWING WORK PERFORMED BY STREET CLEANING BUREAU AND COST OF SAME

	1928	Number Miles Cleaned	Number Sq. Yds. Cleaned	Number Cu. Yds. Dirt Removed	Total Cost	Cost per Mile	Cost per 1,000 Sq. Yds.
Patrol Sweeping.....		2,408	69,563,000	1,283	\$ 28,167.54	\$ 8.12	\$.408
Hand Sweeping.....		6,300	122,780,000	1,063	30,206.07	5.18	.299
Auto Machine Flushing.....		36,835	736,710,000	26,873	157,923.90	5.90	.275
Totals—Hard Surface Streets.....		46,443	928,053,000	32,228	\$ 246,357.57		
Macadam and Gravel Streets.....		494	9,683,000	4,614	10,777.44	\$ 41.84	\$ 2.092
Cleaning Catch-basins.....		42,829 units		2,089	8,336.91		.200 ea.
Moving Snow.....				3,967	9,100.35		
Cleaning Streets and Catch-basins, Total Cost.....					\$ 282,574.17		
General Plant and Equipment.....					19,331.35		
Total Cost.....					\$ 301,905.52		
Cleaning Cost Suspense Debit.....					2,397.89		
Total Paid Out (1928 Appropriation).....					\$ 299,410.63		

OFFICERS AND EMPLOYES FOR THE YEAR 1928

- 1 supreintendent
- 1 clerk
- 4 district foremen
- 1 assistant foreman
- 1 shop foreman
- 1 blacksmith
- 36 auto flusher-truck drivers
- 115 laborers

AUTO EQUIPMENT IN OPERATION DURING THE YEAR 1928

- 10 auto flushers
- 2 catch-basin eductors
- 3 1-ton trucks
- 10 1½-ton trucks
- 3 2½-ton trucks
- 1 5-ton truck
- 1 5-passenger Oldsmobile coach
- 3 2-passenger Ford roadsters
- 2 2-passenger Ford service cars

AUTO EQUIPMENT PURCHASED DURING THE YEAR 1928

- 3 1½-ton trucks
- 2 2½-ton trucks
- 1 5-ton flusher

EQUIPMENT DISPOSED OF DURING THE YEAR 1928

- 1 3½-ton truck, T-7, turned in on 2½-ton trucks, T-5 and T-8

STATEMENT OF APPROPRIATIONS, EXPENDITURES AND BALANCES FOR FISCAL YEAR 1928

	Final Appropriation	Encumbrance	Balance
Executive and Clerical—			
Personal service	\$ 14,520.00	\$ 14,520.00	
Operation and maintenance	1,747.85	1,741.17	\$ 6.68
Equipment	25.00		25.00
Cleaning Streets—			
Personal service	230,694.35	230,578.45	115.90
Operation and maintenance	35,445.00	34,236.66	1,208.34
Equipment	18,380.00	18,334.35	45.65
Totals	\$300,812.20	\$299,410.63	\$ 1,401.57

BUREAU OF MUNICIPAL SHOP

MR. C. A. BIGELOW, COMMISSIONER OF PUBLIC AFFAIRS, CITY OF PORTLAND, OREGON:

Dear Sir: I herewith submit to you a report for the year ending November 30, 1928, of work performed at the Municipal Shop for the various departments of the City, as follows:

	Labor	Material	Total
Bureau of Police.....	\$ 3,848.70	\$ 3,563.59	\$ 7,412.29
Water Bureau.....	3,096.50	672.71	3,769.21
Weight and Measures.....	69.83	18.31	88.14
Bureau of Health.....	2,182.14	1,050.60	3,232.74
Tuberculin Rotary.....	51.69	17.33	69.02
Department of Public Works.....	5,921.03	3,451.46	9,372.49
City Plan Commission.....	34.88	10.63	45.51
Bureau of Paving.....	863.82	697.80	1,561.62
Water Front Advance.....	158.65	157.26	315.91
Bureau of Parks.....	1,199.86	838.65	2,038.51
Bureau of License.....	38.03	24.37	62.40
Municipal Store (Rotary).....	669.76	322.37	992.13
Municipal Store (Expense).....	145.09	38.40	183.49
Bureau of Garbage Disposal.....	1,195.38	2,268.03	3,463.41
Bureau of Street Cleaning.....	8,518.06	7,067.08	15,585.14
Public Market.....	7.17	18.00	25.17
Bureau of Fire.....	22,359.34	16,338.08	39,197.42
Fire Construction Fund No. 2.....	15,648.61	2,014.81	17,663.42
Municipal Shop.....	1,448.81	5,468.93	6,917.74
Totals.....	\$ 67,957.35	\$ 44,038.41	\$ 111,995.76

The following equipment was purchased and installed out of our Shop Rotary Fund:

1 4½ swivel bottom and jaw vise.....	\$ 16.15
2 4½ Prentice jaws	13.00
1 set socket wrenches	29.15
1 large steel wrench.....	24.70
1 wheel aligner	65.00
1 boring machine	50.00
1 acetylene welding outfit	211.65
1 air compressor	215.00
1 Model A Ford roadster.....	525.00
Fuel for shop	148.75
Small tools, installation of machinery, repairs to building and heating plant	871.86
Shop holidays and vacations.....	3,723.59
Totals.....	\$5,893.85

After paying all Shop overhead and expenses the Shop has a surplus of \$4,691.53 in and above the original Rotary Fund.

Respectfully submitted,

J. V. SAVAGE,
SHOP FOREMAN.

CARROLL PUBLIC MARKET

November 30, 1928.

C. A. BIGELOW, COMMISSIONER OF PUBLIC AFFAIRS, CITY OF PORTLAND:

Dear Sir: The following is the annual report of the Carroll Public Market for the year ending November 30, 1928:

RECEIPTS

December, 1927	\$ 1,023.80
January, 1928	1,053.30
February, 1928	944.80
March, 1928	1,067.85
April, 1928	1,087.40
May, 1928	1,127.33
June, 1928	1,308.95
July, 1928	1,105.75
August, 1928	1,213.00
September, 1928	1,164.35
October, 1928	1,251.40
November, 1928	1,106.25
	<u>\$13,454.20</u>
Garbage collection	932.25
Total receipts	<u>\$14,386.45</u>
The expense of personal service was.....	\$ 5,371.48
The expense of maintenance was.....	1,496.02
The total expense was.....	<u>\$ 6,867.50</u>
Leaving a net balance of.....	7,518.95

During the year approximately 74,000 producers have been represented on the market from time to time.

The capacity of the Market has been attained and the demand for space is constant.

Should there be no change in the location of the Market in the near future, extensive repairs will have to be made, as the deterioration is now very rapid, and a general going over should be undertaken.

Respectfully submitted,

J. A. EASTMAN, MARKET MASTER.

PUBLIC EMPLOYMENT BUREAU

Portland, Oregon, March 19, 1929.

TO THE HONORABLE MAYOR AND CITY COUNCIL, CITY OF PORTLAND, OREGON:

Herewith find report of activities of the Public Employment Bureau for the year ending November 31, 1928.

The year just closed was one of industrial depression so far as the West Coast was concerned, all of the coast cities feeling its effect. It is gratifying, however, to say that this depression was perhaps felt less in Portland than in any other Western city.

In building lines there has been registered a considerable drop since the peak year of 1925, to and including 1928.

Cargo shipment originating in the Portland territory has, however, shown a steady increase and has been a considerable factor in maintaining a comparatively fair condition.

A considerable number of new industries have been established during the year which, while not adding very greatly to the total of job opportunities, is nevertheless helpful in adding to diversity of employment. Farm products, logging and lumber productions combined, making up still the major part of total production in this section of the West.

We experienced great difficulty in finding places for middle age and elderly people, who usually find employment in light manufacturing. This condition could be materially improved by a more consistent demand for Oregon-made goods when purchasing. A little more sectional loyalty, plus a little less indifference would accomplish wonders.

As an Employment Bureau we can not create jobs, our function being to bring the man and the job together as speedily and fittingly as possible, and despite statement to the contrary our working connections and hookups are such that we can furnish competent and desirable people on short notice for almost any conceivable employment, from common labor to technical or professional service.

In order to make our service truly efficient we have and need the co-operation of our employing citizens.

Experiences during the last 15 years proves conclusively that the greater patronage we receive from employers, the higher becomes the character and ability of the personnel of those seeking employment through us.

The present day business truth that the greater the patronage the better the service, is as applicable to us as to any other concern.

All signs point to an early improvement in employment conditions. Building trades, metal trades and also transport workers are due for a better season.

Our placements for the year including short jobs are 25,234 for men and 2,677 for women, or a total of 27,911 placements. About 10 per cent of this number will be found to be of a permanent or semi-permanent nature, while 90 per cent will class as short jobs, from a few hours to a few days' duration.

We do not give a full detailed statement herein as we cover details fully in our monthly reports.

Our placements and costs will be found to compare very favorably with bureaus maintained by other cities of this class.

Respectfully submitted,

ARTHUR W. JONES,
DIRECTOR PUBLIC EMPLOYMENT BUREAU.

ANNUAL REPORT
OF THE
AUDITOR OF THE CITY OF
PORTLAND, OREGON

FOR THE FISCAL YEAR ENDING
NOVEMBER 30, 1928

ANNUAL REPORT
OF THE
AUDITOR OF THE CITY OF
PORTLAND, OREGON

OFFICE OF THE CITY AUDITOR

GEO. R. FUNK
AUDITOR

ACCOUNTING DIVISION—

AUDITING DIVISION—

SPECIAL ASSESSMENT DIVISION—

CLERK OF THE COUNCIL—

ANNUAL REPORT OF GEO. R. FUNK, AUDITOR OF THE CITY OF PORTLAND, FOR THE YEAR ENDING NOVEMBER 30, 1928

Account No.	Name of Fund	Balance Dec. 1, 1927	Received by Transfer	Receipts	Disbursements	Disbursed by Transfer	Balance Nov. 30, 1928	Warrants Outstanding Dec. 1, 1927	Warrants Drawn	Warrants Paid	Warrants Cancelled	Warrants Outstanding Nov. 30, 1928
1	General Fund	\$ 527,295.07	\$ 779,993.33	\$ 8,732,332.33	\$ 8,602,586.56	\$ 655,906.16	\$ 781,168.01	\$ 400,296.41	\$ 8,944,996.68	\$ 8,602,571.56	\$ 1,227.65	\$ 741,493.85
2	Bonded Indebtedness Interest Fund	237,015.59		495,644.19	494,572.61		238,087.17	19.87	165.37	167.61		17.63
3	Sinking Fund	124,183.47	1,107.51	758,220.35	432,809.04		450,849.32		290,362.04	290,362.04		
4	Playgrounds and Parks Fund	24,558.77	11,599.14	88,090.59	96,349.59	6,855.47	21,328.44	5,247.70	95,474.09	96,349.59		4,378.20
5	Special Bridge Fund	124,411.34		71,837.03	93,511.32	80,736.26	22,060.79	6,780.05	93,511.32	93,511.32		4,542.31
6	Public Auditorium Fund	3,299.64	4,000.00	32,320.43	36,281.75	753.26	2,585.12	2,984.44	35,638.33	36,281.75		2,351.02
7	Fire Department Construction Fund	7,404.88		115.70	3,034.50	4,496.14			3,034.50	3,034.50		
8	Fire Department Construction Fund No. 2	139,426.40	64,756.58	231,500.72	325,547.55	24,406.36	85,675.79	26,869.70	367,952.65	325,547.55		69,274.80
9	Park and Boulevard Construction Fund	1,926.43		448.37	292.20		2,082.60	292.20	292.20	292.20		
10	Water Fund	500,076.80	840,772.52	1,590,267.42	2,005,846.52	645,126.02	280,144.20	86,471.85	1,273,686.09	1,286,741.62	10.43	73,401.99
11	Water Bond Sinking Fund	97,133.49		498,697.58	498,697.58		289,732.60		302,498.42	302,498.42		
12	Redemption Fund	5,412.07		102,357.17	104,871.64		2,897.60	2,137.89	104,210.39	104,871.64	37.73	1,438.88
13	Assessment Collection Fund	105,740.95	51,131.12	410,826.93	477,200.85	62,673.85	37,524.51	8,360.20	487,036.12	477,200.85	264.59	17,930.85
14	Women's Detention Home Fund	1,018.78		19.98	186,843.40	54,465.06	1,038.70		217,056.75	186,843.40	6.00	48,093.00
15	Municipal Paving Rotary Fund	49,452.97	136,955.67	110,793.11	43,566.19	5,445.91	55,922.69	17,795.85	39,407.57	40,528.20		3,184.87
16	Eastmoreland Golf Fund	12,676.98	12,600.80	10,243.333	8,262.33	2,699.29	1,584.95	4,305.50	8,549.53	8,262.33		1,283.86
17	West Hills Golf Fund	2,660.52	242.72	10,243.333	8,262.33	2,699.29	1,584.95	4,305.50	8,549.53	8,262.33		1,283.86
18	Rose City Golf Fund	11,404.64	1,327.53	43,246.15	42,980.66	9,303.36	3,714.36	2,181.67	37,593.34	37,760.56		2,014.35
19	Auto Camp Fund	4,251.33		75.65	907.03	758.13	2,671.70	51.72	1,197.76	907.03		342.45
20	Garbage Crematory Fund	115,864.99	5.30	542.69	105,777.13	272.28	10,365.40	2,822.80	102,954.33	105,777.12		115.60
21	U. S. Grant Properties Sales Fund	6,735.25	181.14	1,695.23	850.19	17.82	7,743.61		965.18	850.19		
22	Water Construction Fund	683,463.73	802,901.82	977,445.14	1,472,251.76	848,237.05	5,394.22	101,125.51	1,457,057.79	1,472,251.76	110.30	85,821.24
23	Broadway Bridge Fund	5,133.12		4,275.80	4,014.70		4,014.70		4,014.70	4,014.70		
24	Civic Emergency Fund	564.10		8,129.49	7,944.73		845.86	500.00	7,357.98	7,844.73		
25	Nellie Robinson Fund	381.46		7.66			389.12					13.25
a-26	Mt. Hood Ry. & Power Co.—Street Repair Fund	1,000.00					1,000.00					
27	Gantry Crane Fund	290.71	29	.76	291.67				291.67	291.67		
28	Bridge Access Fund	17,232.40	19,327.53	111.90	22,400.41	959.94	10,311.55	75.00	22,325.41	22,400.41		
29	Bridge Access Fund No. 2	21,313.20	31,337.89	430,963.90	64,341.73	359,501.64	59,671.62	2,096.10	63,421.42	64,341.73	150.00	1,025.79
30	Fire Boat and Fire Mains Fund	120.72		1.99	13,866.34	13,814.66	1,431.36	1,375.00	13,863.99	13,814.66		
31	Health Teacher's Fund	1,379.68		141,237.83	218,166.29	346,718.53	12,735.59					1,424.33
32	Firemen's Salary Increase Fund			110,273.92	160,779.53	261,660.23	9,993.22					
33	Policemen's Salary Increase Fund			220.59	24.44	4,214.69	632.63	1,596.94	2,517.75	4,214.69		
34	Police Traffic Signal Fund			40,111.19	37,759.57	2,148.72	202.90		37,962.47	37,759.57		
35	Utility Election Fund	4,602.29		29,500.06	7,162.26		22,337.80					202.90
b-36	Trustees Fund			2,491.33	102,554.11	104,749.98	265.35	7,277.66	102,632.70	104,749.98	2,457.05	2,698.32
37	Paving Fund	179,482.63	60,700.29	2,179,491.89	2,233,976.49	138,277.22	47,427.15	1,065,335.43	2,333,709.34	2,233,970.49	364,641.93	800,132.35
38	Street Improvement Fund	87,367.16	223.08	470,151.21	527,896.97	358.73	9,675.69	906,523.92	1,438,633.73	527,896.97	213,983.45	1,603,477.23
39	Sewer Fund	100,704.15	542,189.88	176,046.70	671,400.80	107,305.24	40,254.09	62,095.78	654,191.35	671,400.80	19,259.66	25,498.53
40	Street Extension Fund	3,929.43	51.80	45,232.96	47,806.53	12.52	1,395.44	1.37	51.10	51.10		1.37
41	Street and Sewer Interest Fund	86,697.56	711.25	1,250,991.80	1,214,485.42	144.72	123,770.47	104.77	1,214.82	1,214.46	29.09	74.04
42	Improvement Bond Sinking Fund	20,011.99	13.03	398,737.36	400,760.45	336.92	17,665.61	198.95	711.04	717.59	24.44	167.96
43	Improvement Bond Interest Fund	24.76		790.03		810.00	4.79					
44	Improvement Road Sinking Fund, Linnton	200.79					200.79					
45	Improvement Road Sinking and Interest Fund	64,825.20	144.21	89,753.01	146,850.97		7,875.45		146,850.97	146,850.97		
46	Lighting Bond Sinking Fund	6,502.98	38.94	24,222.60	22,559.26		8,315.26		.61	.61		
47	Lighting Bond Interest Fund											
	Totals	\$ 3,368,818.64	\$ 3,621,024.62	\$ 19,843,597.25	\$ 20,384,215.74	\$ 3,621,024.62	\$ 2,828,200.15	\$ 2,716,192.43	\$ 18,690,751.87	\$ 17,313,943.38	\$ 602,647.47	\$ 3,490,353.45

a—Amount deposited to guarantee that streets disturbed in constructing conduits will be properly replaced.
b—Amounts deposited as guarantee that certain obligations will be fulfilled.

Respectfully submitted,

GEO. R. FUNK,
AUDITOR OF THE CITY OF PORTLAND.

OFFICE OF THE CITY AUDITOR

Dec. 15, 1928.

TO THE HONORABLE MAYOR AND COUNCIL :

Gentlemen: In accordance with the provisions of Section 66 of the City Charter, I transmit herewith my annual report for the fiscal year ending November 30, 1928.

Respectfully submitted,

GEO. R. FUNK,
AUDITOR OF THE CITY OF PORTLAND.

STATEMENT OF RECEIPTS, DISBURSEMENTS AND APPROPRIATIONS
FOR YEAR ENDING NOVEMBER 30, 1928

GENERAL FUND

Balance December 1, 1927.....		\$ 527,295.07
RECEIPTS		
Property Taxes—		
Taxes, current	\$ 3,464,773.39	
Taxes, advance	16,941.64	
Taxes, delinquent, 1927	344,439.69	
Taxes, delinquent	94,676.45	3,920,831.17
Interest—		
Interest on delinquent taxes	16,708.79	
Interest on deposits	6,507.76	
Interest on assessments	150.43	23,366.98
Licenses—		
General licenses	156,239.86	
Dog licenses	21,474.50	
Registration electrical contractors	2,000.00	
Electrical dealers' licenses	3,192.50	182,906.86
Franchises—		
Portland Gas & Coke Co.	100.00	
Portland Electric Power Co.	19,025.00	
Oregon Electric Co.	6,785.00	
Oregon-Washington R. & N. Co.	257.00	
Spokane, Portland & Seattle Ry. Co.	500.00	
Northwestern Electric Co.	69,527.36	
United Railway Co.	1,476.12	
Linnton Transit Co.	100.00	
Pacific Telephone Co.	15,000.00	
Portland Heating Co.	5.00	
Central Heating Co.	50.00	
Multnomah Transit Co.	10.00	
Southern Pacific Co.	2,500.00	115,335.48
Use of Streets—		
Southern Pacific Co.	26.00	
Portland Electric Power Co.	60.00	86.00
Crossing Bridges—		
Broadway Bridge	11,390.70	
Morrison Bridge	9,916.65	
Hawthorne Bridge	17,436.09	38,743.44
Fees and Fines—		
Municipal Court	125,332.64	
Pound fees	4,025.15	
Building permits	26,757.50	
Electrical permits	26,690.05	
Sidewalk permits	816.50	
Plumbing permits	18,825.50	
Sewer permits	1,942.00	
Bill board permits	214.00	
High frequency permits	69.50	
Telephone	15.76	
Comfort stations	546.23	
Badges	38.00	205,272.83
Public Improvements—		
Premium on bonds	99,931.68	
Cost of advertising delinquent assessments	3,309.21	
Paving plant revenue	2,515.28	
Repairs to Union Avenue Bridge	7,610.74	
Repairs to pavement and sewers	3,745.71	117,112.62

STATEMENT OF RECEIPTS, DISBURSEMENTS AND APPROPRIATIONS
FOR YEAR ENDING ONVEMBER 30, 1928

GENERAL FUND—Continued

Rents, Leases and Concessions—		
Hillside Parkway	\$ 360.00	
Lot 6, block 50, Portland	8,350.00	
Corner Morrison and Ella streets	480.00	
East Seventh and Hancock streets	60.00	
Fire station	6.00	
Columbia Park	10.00	
Washington, Peninsula and Benson Parks ..	400.00	
Multnomah Falls	4,350.00	
Sellwood Park	270.00	
Buckman Field	120.00	
Public Market	14,462.05	\$ 28,868.05
Refunds—		
Gasoline tax	1,244.30	
Overcharges	633.22	
Insurance premium	16.35	
Merchandise returned	50.00	
Evidence money	5.00	
Balance trip to Los Angeles	91.00	
Balance trip to Dallas, Texas	17.66	
Balance trip to Oakland	100.00	
Balance trip to Fresno	7.88	2,165.41
Sale of Property and Services Performed—		
Codes	478.35	
Blue prints	234.80	
Tests	1,111.70	
Birth and death certificates	632.50	
Rolling streets	3,359.90	
Removing earth slides	1,765.89	
Certified copies	32.80	
City charters	26.85	
Witness and jury fees	75.00	
Vaccine and antitoxin	527.80	
Plans and Maps	70.65	
Junk	672.30	
Towels	31.25	
Postage stamps	84.60	
Old autos	922.25	
Material and supplies	62.92	
Stationery	70.72	
Empty sacks	423.70	
Equipment	31.35	
Old buildings	225.00	
Animals at parks	29.00	
Gas and oil	560.00	
Traffic signs	7.85	
Rat poison	52.00	
Cinders	460.31	
Fire boats	10,000.00	
Red cross books	41.40	
Garbage disposal	266.50	
Setting barricades	28.03	
Municipal shop labor	535.82	
Moving wires	72.00	
Removing trees	127.83	
Planting shrubbery	2,233.74	
Removing rubbish .....	.86	
Spraying trees	75.00	
Oiling streets	7.50	
Hauling	6.07	
Duplicate license tags	2.00	25,346.24

STATEMENT OF RECEIPTS, DISBURSEMENTS AND APPROPRIATIONS
FOR YEAR ENDING ONVEMBER 30, 1928

GENERAL FUND—Continued

Miscellaneous—		
Appeal from Housing Code.....	\$ 160.00	
Fines and costs City cases.....	16,847.25	
Redemptions	315.99	
Police Station	215.70	
Storage and towage.....	4,572.24	
Isolation Hospital	3,156.85	
Damage to hydrants	1,192.91	
Damage to lamp posts.....	140.00	
Damage to park property	37.17	
Damage to autos	383.06	
Street vacations	44.15	
Use of community houses.....	109.53	
Right of way and easements.....	427.05	
Use of equipment.....	1.00	
Damage to traffic signals	162.49	
Damage to alarm box	39.56	
Injury to employes.....	606.88	
National Guard encampment.....	316.70	
Auto licenses	12.00	
Specification deposits	30.00	
Overcharges .....	.65	\$ 28,771.18
Non-Revenue—		
Engineering—Rotary	117,739.28	
Construction of sidewalks—Rotary.....	6,764.08	
Removing weeds—Rotary	9,289.01	
Tuberculin—Rotary	733.70	
Temporary loans	3,909,000.00	4,043,526.07
Transfers—		
Playgrounds and Parks Fund.....	6,855.47	
Special Bridge Fund.....	34,432.26	
Public Auditorium Fund.....	753.20	
Fire Department Construction Fund No. 2..	24,460.36	
Water Fund	29,654.45	
Assessment Colection Fund.....	1,387.53	
Municipal Paving Rotary Fund.....	48,465.82	
Eastmoreland Golf Fund.....	4,937.65	
West Hills Golf Fund.....	2,002.99	
Rose City Golf Fund.....	6,696.68	
Auto Camp Fund.....	748.18	
Garbage Crematory Fund.....	272.29	
U. S. Grant Property Sales Fund.....	17.82	
Water Construction Fund.....	1,453.12	
Bridge Access Fund.....	959.84	
Bridge Access Fund No. 2.....	4,174.14	
Firemen's Salary Increase Fund.....	346,718.53	
Policemen's Salary Increase Fund.....	261,660.23	
Police Traffic Signal Fund.....	632.63	
Utility Election Fund.....	2,148.72	
Paving Fund .....	.11	
Street Improvement Fund.....	89.79	
Sewer Fund	301.28	
Street Extension Fund.....	1,165.24	779,993.33
		\$10,039,620.73

STATEMENT OF RECEIPTS, DISBURSEMENTS AND APPROPRIATIONS
FOR YEAR ENDING ONVEMBER 30, 1928

GENERAL FUND—Continued

DISBURSEMENTS		
Warrants paid and returned.....	\$ 8,602,571.56	
Badges redeemed	15.00	\$ 8,602,586.56
Transfers—		
Playgrounds and Parks Fund.....	11,094.08	
Fire Department Construction Fund No. 2..	60,270.44	
Water Fund	1,174.91	
Assessment Collection Fund.....	6.10	
Municipal Paving Rotary Fund.....	115,234.76	
Eastmoreland Golf Fund.....	9,297.88	
West Hills Golf Fund.....	242.72	
Rose City Golf Fund.....	1,323.33	
Garbage Crematory Fund.....	5.30	
Gantry Crane Fund.....	20	
Water Construction Fund.....	200,000.00	
Firemen's Salary Increase Fund.....	141,287.83	
Police Traffic Signal Fund.....	220.59	
Street Improvement Fund.....	601.60	
Policemen's Salary Increase Fund.....	110,273.92	
Street Extension Fund.....	4,780.70	
Street and Sewer Interest Fund.....	51.80	655,866.16
Balance November 30, 1928.....		781,168.01
		\$10,039,620.73

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928
DEPARTMENT OF PUBLIC SAFETY

Account Title	Sym- bol	Mayor's Office	Bureau of Police	Municipal Court	Motion Picture Censors	City Attorney's Office	Weeds Rotary	Totals
Personal Services—	A	\$ 14,370.96	\$828,118.85	\$ 16,440.00	\$ 2,452.50	\$ 33,950.00	\$ 11,678.32	\$ 907,010.13
Salaries.....	1			241.50		584.50	600.00	1,426.00
Special Services.....	2							
Supplies—	B	608.50	4,943.49	699.29	148.00	1,216.03	1,050.48	8,674.79
Office.....	1		3,734.20					3,734.20
Fuel.....	2		14,830.57					14,830.57
Cleaning and Disinfecting.....	4	2.80	1,404.57		.90	3.65		1,411.92
Motor Vehicle.....	5	585.80	16,045.21					17,531.01
Medical and Surgical.....	6		6.11					6.11
General Plant.....	9		1,675.62					1,675.62
Material—	C		354.57					354.57
Building.....	3		1,249.10					1,249.10
Equipment—	D	301.72	1,392.29	439.34		190.45		2,323.80
Office.....	1		577.65					577.65
Household.....	2	15.18	22,615.46					22,630.64
Motor Vehicles and Equipment.....	5		41.54					41.54
Tools.....	7		154.85					154.85
General Plant.....	8		830.03					830.03
Contract and Open Order Service—	E							
Construction and Extension.....	1		1,417.07	4.45		24.15		1,445.67
Repairs.....	2		8,968.12					8,968.12
General.....	3	147.50						147.50
Motor Vehicle.....	4							
Light, Heat and Power—	E4		94.47					94.47
Heat.....	D		499.58					499.58
Janitorial Service	E5		87.60					87.60
Transportation—	E6	1,065.00	373.40		65.70	26.37		1,533.30
Carfare.....	E							
Other Transportation.....	F							1,464.77

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC SAFETY—Continued

Account Title	Sym- bol	Mayor's Office	Bureau of Police	Municipal Court	Motion Picture Censors	City Attorney's Office	Weeds Rotary	Totals
Communication—	E7	\$ 86.80	\$ 707.24			\$ 6.25		\$ 800.29
Telephone.....	A	186.19	683.85			2.40		872.44
Telegraph and Messenger.....	B		18.00	\$ 23.95		53.20		95.15
General Plant Service	D8		6,041.01					6,066.56
Contingencies	F							
Fixed Charges and Contributions—	G		988.64					988.64
Rent.....	2		63.20					63.20
Insurance.....	4		10.00					10.00
Other Fixed Charges.....	6		5,000.00					5,000.00
Purchase of Real Estate	H							
Cut Weeds.....			100.00				4,749.84	4,849.84
Fugitive Fund.....			8,081.70					8,081.70
Permanent Traffic and Warning Signs.....			6,037.79					6,037.79
Maintaining Traffic and Warning Signs.....			25,747.78					25,747.78
New Traffic Signals.....			600.00					600.00
Police Reserves.....			349.87					349.87
Injury to Officers.....			151.00					151.00
Police School Activities.....			45.00					45.00
Rose Festival.....								
Total Expenditures.....		\$ 17,370.45	\$64,646.93	\$ 17,848.53	\$ 2,667.10	\$ 36,057.00	\$ 18,113.19	\$1,056,705.20
Total Warrants Drawn.....		16,565.93	1,101,182.46	17,150.34	2,544.75	35,395.70	17,127.70	1,189,966.88
Miscellaneous Debits.....		804.52	22,564.71	698.19	122.35	966.70	985.49	26,141.96
Miscellaneous Credits (Deduct).....			159,098.24			305.40		159,403.64
Claims Outstanding.....			76.00			250.00		326.00
Total Encumbrance.....		\$ 17,370.45	\$64,724.93	\$ 17,848.53	\$ 2,667.10	\$ 36,307.00	\$ 18,113.19	\$1,057,081.20
Total Appropriation.....		17,370.45	668,758.95	17,848.53	2,667.10	36,307.00	20,014.58	1,062,966.61
Unencumbered Balance.....			\$ 4,034.02				\$ 1,901.39	\$ 5,935.41

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE

Account Title	Sym- bol	Executive and Clerical	Patrol	UNIFORM DIVISION				Vice Squad
				Precinct No. 1	Precinct No. 2	Booth No. 7		
Personal Services—								
Salaries.....	A	\$ 18,660.06	\$ 411,176.79					\$ 32,947.09
Supplies—								
Office.....	B	216.22	354.16	\$ 166.57	\$ 173.33			128.57
Fuel.....	1			596.08				
Cleaning and Disinfecting.....	2			11.70	5.23			
Motor Vehicle.....	5							
Medical and Surgical.....	6	318.13	2,737.57	2,480.88	2,088.69	\$ 463.46		1,363.85
General Plant.....	9							
Material—	10	.88	205.91	20.19				
Building.....	C							
General Plant.....	3		109.91	21.92	16.04			
Equipment—								
Office.....	D	1.96	15.00	52.25	52.25			7.50
Household.....	1	5.00			4.90			
Motor Vehicles and Equipment.....	2	41.00	2,974.65	2,601.40	3,392.50	448.50		1,751.50
General Plant.....	5	.42	70.50					
Contract and Open Order Service—								
Construction and Extension.....	E			880.03				
Repairs—								
General.....	E	13.15	214.70	47.20	67.50			
Motor Vehicle.....	2	429.28	1,283.15	563.27	327.35	166.65		1,043.26
Light, Heat and Power—								
Motor Vehicle.....	E4			16.02				
Heat.....	D							

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	Executive and Clerical	Patrol	UNIFORM DIVISION				Vice Squad
				Precinct No. 1	Precinct No. 2	Booth No. 7		
Janitorial Service.....	E5							
Transportation—								
Carfare.....	E6							
Other Transportation.....	E	7.30						
Communication—								
Telephone.....	F	90.00	3.30					25.50
Telegraph and Messenger.....	E7							
Contingencies.....								
Fixed Charges and Contributions.....	A		213.74					
Rent.....	B		183.04					
Fugitive Fund.....	F	5,843.51						
	G	100.00						
Total Expenditures.....		\$ 25,726.91	\$ 410,603.02	\$ 7,487.92	\$ 6,107.70	\$ 1,078.61		\$ 37,267.57

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	UNIFORM DIVISION					
		Traffic	Inspector	Auto Theft	Record Room	Garage	Speed
Personal Services--							
Salaries.....	A	\$ 96,314.95	\$ 86,477.94	\$ 27,947.09	\$ 35,778.83	\$ 9,096.00	\$ 23,836.67
Supplies--							
Office.....	B	252.87	482.06	181.07	1,898.07	56.70	124.00
Fuel.....	1					31.45	
Cleaning and Disinfecting.....	2					2,384.99	784.20
Motor Vehicle.....	5	458.82	833.30	1,234.80	8.74	6.11	
Medical and Surgical.....	9					76.00	
General Plant.....	10				1.75		
Material--							
Building.....	3			71.00		30.30	610.43
General Plant.....	4					357.20	
Equipment--							
Office.....	D	90.25	116.75	59.75	117.75	55.00	
Household.....	1						
Motor Vehicles and Equipment.....	2						
General Plant.....	5	2,550.50	1,775.83	919.90		3,299.96	1,120.80
Contract and Open Order Service--							
Construction and Extension.....	8	18.00				14.42	
Repairs--							
General.....	E	7.98	21.00		21.91	4.92	
Motor Vehicle.....	2	62.83	373.61	648.27	4.50	812.94	394.39
Light, Heat and Power--							
Heat.....	E4						
	D						

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	UNIFORM DIVISION					
		Traffic	Inspector	Auto Theft	Record Room	Garage	Speed
Janitorial Service.....	E5						
Transportation--							
Carfare.....	E6					\$ 48.00	
Other Transportation.....	E						
Communication--	F	\$ 90.55	\$ 4.65	\$.90			
Telephone.....	E7						
Telegraph and Messenger.....	A	30.80	221.10	200.10	\$ 15.00		
Contingencies	B		307.27	177.98			
Fixed Charges and Contributions--	F						
Rent.....	F					12.64	
Fugitive Fund.....	G		55.00				
Total Expenditures.....		\$ 99,877.55	\$ 90,669.11	\$ 31,440.76	\$ 37,897.55	\$ 16,276.63	\$ 26,820.58

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	Bertillon Division	HARBOR PATROL		Women's Protective Division	ST. JOHNS DIVISION		
			Office	Boat		Office	Building and Jail	Patrol
Personal Services—								
Salaries.....	A	\$ 3,938.71	\$ 10,380.00		\$ 21,917.26			
Supplies—								
Office.....	B	483.15	4.80		159.39		\$ 30.68	
Fuel.....	1							71.82
Food.....	2				176.02			23.85
Cleaning and Disinfecting.....	4							6.49
Motor Vehicle.....	5			\$ 68.12	589.05			
General Plant.....	6			266.21	4.57		.70	\$ 427.38
Material—								
Building.....	10			176.39				9.50
General Plant.....	C			38.78				12.72
Equipment—	3			2.60				
Office.....	4							
Household.....	D							
Motor Vehicles and Equipment.....	1				52.25		75.00	
Tools.....	2				100.00			
General Plant.....	5			32.92	1,635.00			11.00
Repairs—	7			6.45				
General.....	8							
Motor Vehicle.....	E							
General.....	2							
Motor Vehicle.....	3							
Light, Heat and Power—	D4			536.27	58.31			26.75
Heat.....	D				14.87			

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	Bertillon Division	HARBOR PATROL		Women's Protective Division	ST. JOHNS DIVISION		
			Office	Boat		Office	Building and Jail	Patrol
Janitorial Service—								
Transportation—	E5				\$ 108.51			
Canteen.....	E6				80.30			
Other Transportation.....	E				158.00			
Communication—	E7							
Telephone.....	A				26.50			
Telegraph and Messenger.....	B				15.56			
General Plant Service	E8				197.50			
Contingencies and Contributions—								
Rent.....	G				630.00			
Insurance.....	2			\$ 1.00				
Other Fixed Charges.....	4							
Purchase of Real Estate.....	6							
Total Expenditures.....	H	\$ 5,058.44	\$ 5,058.44	\$ 1,130.74	\$ 20,218.99	\$ 106.38	\$ 124.38	\$ 465.13

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	HEADQUARTERS DIVISION				
		Office	Property Room	Building	Jail	Matrons
Personal Services—	A	\$ 8,244.34	\$ 1,920.00	\$ 33,435.98		\$ 6,046.64
Salaries.....	1		90.38	3.16	137.92	
Supplies—	B			3,066.30	14,730.70	
Office.....	1					
Fuel.....	2					
Food.....	4					
Cleaning and Disinfecting.....	5			1,281.58		
Motor Vehicle.....	6			1,074.86	70.61	32.26
General Plant.....	10					
Material	C			280.96		
Building.....	3					
General Plant.....	4					
Equipment—	D					
Office.....	1					
Household.....	2			269.47	133.70	64.58
Motor Vehicles and Equipment.....	5			35.09		
Tools.....	7			51.51		
General Plant.....	8			777.21		250.50
Repairs—	E					
General.....	2					
Motor Vehicle.....	3					
Light, Heat and Power—	E4					
Heat.....	D			62.98		

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF POLICE—Continued

Account Title	Sym- bol	HEADQUARTERS DIVISION				
		Office	Property Room	Building	Jail	Matrons
Janitorial Service.....	E5			\$ 87.00		\$ 243.07
Transportation—	E6					
Carfare.....	E					
Other Transportation.....	F					
Communication—	E7					
Telephone.....	A					
Telegraph and Messenger.....	B			18.00		
General Plant Service	E8					
Contingencies	G					
Fixed Charges and Contributions—	2					
Rent.....	4			63.20		
Insurance.....	4			10.00		
Other Fixed Charges.....	6	\$ 5,000.00				
Purchase of Real Estate.....	H					
Total Expenditures.....		\$ 13,244.34	\$ 2,010.38	\$ 40,517.30	\$ 15,072.93	\$ 6,637.05

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF POLICE—Continued

Account Title	Sym- bol	HEAD- QUARTERS		Special Appro- priations	Totals	Weeds Rotary	Grand Totals
		Patrol					
Personal Services—	A				\$ 828,118.35	\$ 11,078.32	\$ 839,796.67
Salaries.....	1					600.00	600.00
Special Services.....	2						
Supplies—	B						
Office.....	1				4,943.49	1,059.48	6,002.97
Fuel.....	2				3,734.20		3,734.20
Food.....	4				14,930.57		14,930.57
Cleaning and Disinfecting.....	5				1,404.57		1,404.57
Motor Vehicle.....	6	\$ 573.64			16,945.21		16,945.21
Medical and Surgical.....	9				6.11		6.11
General Plant.....	10				1,675.62		1,675.62
Material—	C						
Building.....	3				354.57		354.57
General Plant.....	4				1,249.10		1,249.10
Equipment—	D						
Office.....	1				1,392.29		1,392.29
Household.....	2				577.65		577.65
Motor Vehicles and Equipment.....	5				22,615.46		22,615.46
Tools.....	7				41.54		41.54
General Plant.....	8				154.85		154.85
Contract and Open Order Service—	E						
Construction and Extension.....	1				830.03		830.03
Repairs—	E						
General.....	2				1,417.07		1,417.07
Motor Vehicle.....	3		1,837.29		8,568.12		8,568.12
Light, Heat and Power—	E4						
Heat.....	D				94.47		94.47
Janitorial Service	E5				499.38		499.38
Transportation	E6						
Carfare.....	E				87.60		87.60
Other Transportation.....	E				373.40		373.40
Communication—	E7						
Telephone.....	A				707.24		707.24
Telegraph and Messenger.....	B				683.85		683.85

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF POLICE—Continued

Account Title	Sym- bol	HEAD- QUARTERS		Special Appro- priations	Totals	Weeds Rotary	Grand Totals
		Patrol					
General Plant Service.....	E8				\$ 18.00		\$ 18.00
Contingencies.....	F				6,041.01	\$ 25.55	\$ 6,066.56
Fixed Charges and Contributions—	G						
Rent.....	2				998.54		998.54
Insurance.....	4				63.20		63.20
Other Fixed Charges.....	6				10.00		10.00
Purchase of Real Estate.....	11				5,000.00		5,000.00
Fugitive Fund.....					100.00		100.00
Permanent Traffic and Warning Signs.....				\$ 8,081.70	6,037.79		8,081.70
Maintaining Traffic and Warning Signs.....				25,747.78	25,747.78		6,037.79
New Traffic Signals.....				600.00	600.00		25,747.78
Police Reserves.....				349.87	349.87		600.00
Injury to Officers.....				151.00	151.00		349.87
Police School Activities.....				45.00	45.00		151.00
Rose Festival.....						4,749.84	4,749.84
Cutting Weeds.....							
Total Expenditures.....		\$ 2,410.83		\$ 41,013.14	\$ 964,648.93	\$ 18,113.19	\$ 982,762.12
Total Warrants Drawn.....					1,101,182.46	17,127.70	1,118,310.16
Miscellaneous Debits.....					22,550.20	985.49	23,535.69
Miscellaneous Credits (Deduct).....					159,098.24		159,098.24
Claims Outstanding.....					76.00		76.00
Total Encumbrance.....					\$ 964,724.93	\$ 18,113.19	\$ 982,838.12
Total Appropriation.....					\$ 968,758.95	\$ 20,014.58	\$ 988,773.53
Unencumbered Balance.....					\$ 4,034.02	\$ 1,901.39	\$ 5,935.41

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF FINANCE

Account Title	Sym- bol	Com- missioner's Office	Bureau of Parks	Bureau of Licenses	Bureau of Purchases	Bureau of City Hall	Municipal Garage Expense
Personal Services—							
Salaries.....	A	\$ 10,405.10	\$ 265,901.69	\$ 14,542.10	\$ 11,220.00	\$ 23,045.77	\$ 4,332.00
Special Services.....	1		820.50				
Supplies—							
Office.....	B	126.70	986.80	248.31	454.70	8.47	45.17
Fuel.....	2		1,463.36				
Forge and Veterinary.....	3		5,513.28				
Food.....	4		98.47				
Cleaning and Disinfecting.....	5	1.31	4,329.76	.80	300.94	1,021.34	69.88
Motor Vehicle.....	6		2,767.50	102.25			38.07
Botanical and Agricultural.....	7		2,896.10				
Educational and Recreational.....	8		1,216.17				
Medical and Surgical.....	9		83.33				
General Plant.....	10	1.50	5,797.30	661.18	5.34	404.93	83.36
Material—							
Highway.....	C		502.53				
Sewer.....	1		261.04				
Building.....	2		213.17				
General Plant.....	3		4,558.11	3.42	1.00	193.42	65.64
Equipment—							
Office.....	D		123.25				
Household.....	1		46.50				
Livestock.....	2		11.03				
Motorless Vehicles and Equipment.....	3		99.47				
Motor Vehicles and Equipment.....	4		2,649.88	128.75	314.90	113.57	72.23
Educational and Recreational.....	5		248.33			55.00	
Tools.....	6		456.92				
General Plant.....	7		7,158.93	560.00	14.15	1.08	28.95
Contract and Open Order Service—							
Construction and Extension.....	8					462.02	122.58
Repairs—							
General.....	E	4.70	8,280.39		5.45	1,041.38	45.13
Motor Vehicle.....	1		1,267.47	63.40	110.15		
General.....	2		1,420.46			129.37	982.36
Motor Vehicle.....	3						39.00
Light, Heat and Power.	E4						
Lighting Streets.....	A						

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF FINANCE—Continued

Account Title	Sym- bol	Com- missioner's Office	Bureau of Parks	Bureau of Licenses	Bureau of Purchases	Bureau of City Hall	Municipal Garage Expense
Janitorial Service.	E5		\$ 1,117.96			\$ 432.09	
Transportation—							
Shoeing and Boarding of Horses.....	E6		230.89				
Cars.....	D		131.25				
Carfare.....	E	7.30	542.18				
Other Transportation.....	F				\$ 339.26	22.16	
Communication—	E7						
Telephone.....	A	2.90	20.00		6.05		
Telegraph and Messenger.....	B	8.97	15.10		30.88		
General Plant Service	E8		381.72		29.95	259.75	5.00
Contingencies.	F		552.70				
Fixed Charges and Contributions—	G						
Rent.....	2		3,664.75				3,000.00
Other Fixed Charges.....	6		30.00				
Painting and Tinting.....						1,366.00	
New Linoleum.....						1,396.30	
Music.....			2,192.75				
Soldiers Cemetery.....			999.92				
Rose Medals.....			22.10				
Total Expenditures.....		\$ 10,558.48	\$ 329,063.06	\$ 16,330.21	\$ 12,833.77	\$ 32,851.50	\$ 9,723.67
Total Warrants Drawn.....		10,439.67	337,789.87	15,919.58	12,324.67	32,196.16	9,380.39
Miscellaneous Debits.....		118.81	26,200.82	410.63	560.35	870.75	343.28
Miscellaneous Credits (Deduct).....			34,927.63		51.25	215.41	
Claims Outstanding.....			421.96				
Total Encumbrance.....		\$ 10,558.48	\$ 329,485.02	\$ 16,330.21	\$ 12,833.77	\$ 32,851.50	\$ 9,723.67
Total Appropriation.....		\$ 10,558.48	\$ 329,429.45	\$ 16,330.21	\$ 12,833.77	\$ 32,851.50	\$ 9,723.67
Unencumbered Balance.....			\$ *55.57				

*Deficit.

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF FINANCE—Continued

Account Title	Sym- bol	Municipal Reference Library	Property Custodian	City Treasurer's Office	Municipal Stores Expense	Totals
Personal Services—						
Salaries.....	A		\$ 2,700.00	\$ 30,378.53	\$ 4,733.00	\$ 367,258.19
Special Services.....	1					820.50
Supplies—						
Office.....	B	\$ 324.09	37.86	1,975.66	167.47	4,375.23
Fuel.....	1				28.50	4,391.71
Forge and Veterinary.....	2					5,513.28
Food.....	3					98.47
Cleaning and Disinfecting.....	4					5,432.89
Motor Vehicle.....	5			3.64	6.16	3,308.76
Botanical and Agricultural.....	6				100.00	2,896.10
Educational and Recreational.....	7					1,216.17
Medical and Surgical.....	8					83.33
General Plant.....	9			20.20		7,054.71
Material—						
Highway.....	C				69.90	536.03
Sewer.....	1					261.04
Building.....	2					213.17
General Plant.....	3					4,839.74
Equipment—						
Office.....	D			1,597.40		2,280.16
Household.....	1				2.29	101.50
Livestock.....	2					11.03
Motorless Vehicles and Equipment.....	3					99.47
Motor Vehicles and Equipment.....	4					3,316.26
Educational and Recreational.....	5					248.33
Tools.....	6					486.95
General Plant.....	7					7,743.53
Contract and Open Order Service—						
Construction and Extension.....	8					750.80
Repairs—						
General.....	E			157.40	113.83	9,648.28
Motor Vehicle.....	1				92.94	1,533.96
Light, Heat and Power	2					2,532.19
Lighting Streets.....	3					39.00
	E4					
	A					

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF FINANCE—Continued

Account Title	Sym- bol	Municipal Reference Library	Property Custodian	City Treasurer's Office	Municipal Stores Expense	Totals
Janitorial Service	E5					\$ 1,576.05
Transportation—						
Shoeing and Boarding of Horses.....	E6				26.00	230.89
Carfare.....	D					182.35
Other Transportation.....	F				43.80	903.60
Communication—						
Telephone.....	E7					28.95
Telegraph and Messenger.....	A					54.95
General Plant Service	B			\$ 203.30		979.72
Contingencies	E8					532.70
Fixed Charges and Contributions—						
Rent.....	F					6,825.75
Other Fixed Charges.....	G			161.00		30.00
Painting and Tinting.....	2					1,366.00
New Linoleum.....	6					1,396.30
Music.....						2,192.75
Soldiers Cemetery.....						999.92
Rose Medals.....						22.10
Total Expenditures.....		\$ 324.09	\$ 2,737.86	\$ 34,980.65	\$ 5,403.04	\$ 454,806.33
Total Warrants Drawn.....		324.09	2,710.00	33,154.85	4,872.58	459,111.86
Miscellaneous Debits.....			27.86	1,825.80	530.46	30,888.76
Miscellaneous Credits (Deduct).....		6.87				35,194.29
Claims Outstanding.....						428.83
Total Encumbrance.....		\$ 330.96	\$ 2,737.86	\$ 34,980.65	\$ 5,403.04	\$ 455,235.16
Total Appropriation.....		330.96	2,737.86	34,980.65	5,403.04	455,179.59
Unencumbered Balance.....						\$ 55.57

* Deficit.

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ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF PARKS

Account Title	Sym- bol	Executive and Clerical	Park Main- tenance	Play- ground Main- tenance	Comfort Stations	Swimming Tanks	Street Trees	Zoo Main- tenance	Totals
Personal Services—	A	\$18,769.53	\$166,193.46	\$41,480.97	\$24,235.00	\$8,439.50	\$1,310.50	\$5,466.73	\$285,901.69
Salaries.....	1	820.50							820.50
Special Services.....	2								
Supplies—	B	986.80	712.00	560.86				190.44	986.80
Office.....	1		2,072.32	4.08				3,436.88	5,513.28
Fuel.....	2		76.42					16.00	98.47
Forge and Veterinary.....	3	6.05	866.48	109.15	3,167.77	170.88		15.48	4,329.76
Cleaning and Disinfecting.....	4		1,799.69	75.86		.17	142.67		2,767.50
Motor Vehicle.....	5	749.11	2,279.81	3.40		48.00	612.89		2,896.10
Botanical and Agricultural.....	6		2.82	1,168.17		3.80			1,216.17
Educational and Recreational.....	7		3,073.79	76.71	330.42	254.21	2.36		83.33
Medical and Surgical.....	8								
General Plant.....	9	231.24		1,902.37				2.91	5,797.30
Material—	C								
Highway.....	1		502.53						502.53
Sewer.....	2		256.79					4.25	261.04
Building.....	3		161.82	15.02		36.33			213.17
General Plant.....	4		2,420.77	1,953.45	88.94	51.40	.52	43.03	4,568.11
Equipment—	D								
Office.....	1	71.25		52.00					123.25
Household.....	2							46.50	46.50
Livestock.....	3		11.03						11.03
Motorless Vehicles and Equipment.....	4		96.47						96.47
Motor Vehicles and Equipment.....	5	2,117.23	532.65	245.68					2,649.88
Educational and Recreational.....	6		2.65						2.65
Tools.....	7		447.81						447.81
General Plant.....	8	8.00	3,702.08	3,246.27		114.40	5.60	9.00	7,158.83
Repairs—	E								
General.....	1	140.60	7,112.11	227.78	735.84	19.00	45.06		8,280.39
Motor Vehicle.....	2	317.84	852.61	57.50			39.52		1,267.47
Light, Heat and Power.....	E4			98.94	1,321.52				1,420.46
Janitorial Service.....	E5		753.00	25.95	339.01				1,117.96

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF PARKS—Continued

Account Title	Sym- bol	Executive and Clerical	Park Main- tenance	Play- grounds Main- tenance	Comfort Stations	Swimming Tanks	Street Trees	Zoo Main- tenance	Totals
Transportation—	E6		\$230.89						\$230.89
Shoeing and Boarding of Horses.....	D			\$131.25					\$131.25
Carfare.....	E		1.99						\$1.99
Other Transportation.....	F	\$490.62							\$490.62
Communication—	E7							\$49.57	\$49.57
Telephone.....	A	20.00							20.00
Telegraph and Messenger.....	B	15.10							15.10
General Plant Service—	E8	12.50	96.50	282.72					391.72
Contingencies.....	F	532.70							532.70
Fixed Charges and Contributions—	G								
Rent, Fixed Charges.....	2	30.00	60.00	64.75	\$3,540.00				3,664.75
Other Fixed Charges.....	2								30.00
Music.....	6		999.92	2,192.75					2,192.75
Soldiers Cemetery.....			22.10						999.92
Rose Medals.....									22.10
Total Expenditures.....		\$24,786.37	\$195,876.27	\$53,978.31	\$33,838.51	\$9,137.69	\$2,165.12	\$9,280.79	\$329,063.06
Total Warrants Drawn.....									\$337,789.87
Miscellaneous Debits.....									36,200.82
Miscellaneous Credits (Deduct).....									34,927.63
Claims Outstanding.....									421.96
Total Encumbrance.....									\$329,485.02
Total Appropriation.....									\$329,429.45
Unencumbered Balance.....									\$55.57

* Deficit.

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF PUBLIC AFFAIRS

Account Title	Symbol	Com-missioner's Office	Bureau of Fire	Bureau of Street Cleaning	Public Market	Public Employment Bureau	Bureau of Garbage Disposal	Totals
Personal Services—	A	\$ 6,860.00	\$981,414.92	\$245,098.45	\$ 5,356.48	\$ 8,350.75	\$ 41,784.71	\$1,288,865.31
Salaries.....	1		640.00		15.00			655.00
Special Services.....	2							
Supplies—	B	17.18	1,835.09	102.29	137.11	108.88	10.14	2,210.69
Office.....	1		6,556.61	1,099.64				7,656.25
Fuel.....	2	.40	2,984.58	92.47	27.50	28.23		3,133.18
Cleaning and Disinfecting.....	5		12,100.05	20,441.30			1,283.22	33,824.57
Motor Vehicle.....	6		24.15					24.15
Botanical and Agricultural.....	7		58.87				3.97	62.84
Medical and Surgical.....	9		3,988.79	522.76	62.25	6.96	138.35	4,719.11
General Plant.....	10							
Material—	C							
Highway.....	1		2,422.91	715.31			426.80	426.80
Building.....	3		3,607.05	804.60	69.06		13.29	3,151.51
General Plant.....	4						148.21	4,628.92
Equipment—	D							
Office.....	1		129.00					129.00
Household.....	2		885.26					885.26
Motor Vehicles and Equipment.....	5		4,247.08	17,123.57				21,370.65
Tools.....	7		607.98	671.59			178.84	1,458.41
General Plant.....	8		10,797.21	539.19			3.40	11,339.80
Repairs—	E							
General.....	1		15,841.46	423.62	94.80	76.50	215.34	16,651.72
Motor Vehicle.....	3		23,734.23	11,347.34			3,162.83	38,244.40
Janitorial Service.....	E4		1,288.30				153.60	1,758.63
Light, Heat and Power	E5				912.00			912.00
Janitorial Service						30.00		30.00
								942.00

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF PUBLIC AFFAIRS—Continued

Account Title	Symbol	Com-missioner's Office	Bureau of Fire	Bureau of Street Cleaning	Public Market	Public Employment Bureau	Bureau of Garbage Disposal	Total
Transportation—	F6		\$ 2.50	\$ 1.00				\$ 3.50
Hire of Automobiles.....	F6			73.00				189.80
Carfare.....	F6		1,253.67		21.80		16.25	1,336.72
Other Transportation.....	F7							
Communication—	F7	.85	12.90					13.75
Telephone.....	F7		24.00				1.00	25.00
Telegraph and Messenger.....	F8		528.18	264.50	3.50		21.86	553.54
General Plant Service	F8		624.70				177.50	1,066.70
Contingencies	F8							
Fire Charges and Contributions—	G							
Rent.....	1		300.00	90.00	168.00	600.00		858.00
Other Contributions.....	2							300.00
Total Expenditures	7	\$ 6,913.43	\$1,075,909.40	\$299,410.63	\$ 6,867.50	\$ 9,034.85	\$ 47,730.31	\$1,446,475.21
Total Warrants Drawn		\$ 6,895.85	\$1,235,340.56	\$292,745.97	\$ 6,623.21	\$ 9,064.00	\$ 44,158.68	\$1,584,828.27
Miscellaneous Debits.....		17.58	61,200.06	17,081.72	244.29	570.85	3,696.60	82,811.10
Miscellaneous Credits (Deduct).....			220,631.13	417.06			115.97	221,164.16
Claims Outstanding.....			235.00	240.00				475.00
Total Encumbrance		\$ 6,913.43	\$1,076,144.49	\$299,650.63	\$ 6,867.50	\$ 9,034.85	\$ 47,733.31	\$1,446,950.21
Total Appropriation		6,913.43	1,076,040.40	299,650.63	6,867.50	9,034.85	47,739.31	1,446,846.12
Unencumbered Balance.....			\$ * 104.09					\$ * 104.09

* Deficit.

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF FIRE

Account Title	Sym- bol	Executive and Clerical	Fire Prevention	Fire Alarm Telegraph	Hydrant and Plumbing	Operation and Maintenance	Municipal Shop	Totals
Personal Services—								
Salaries.....	A	\$ 21,879.19	\$ 10,085.00	\$ 22,571.38	\$ 5,545.00	\$ 919,807.12	\$ 1,527.23	\$ 981,414.92
Special Services.....	1					640.00		640.00
Supplies—								
Office.....	B	937.37	543.19	28.39	22.75	303.39		1,835.09
Fuel.....	2					6,556.61		6,556.61
Cleaning and Disinfecting.....	5					2,983.48		2,983.48
Motor Vehicle.....	6					9,040.10		12,100.05
Botanical and Agricultural.....	7					24.15		24.15
Medical and Surgical.....	9					58.87		58.87
General Plant.....	10					3,571.21		3,988.79
Material—								
Building.....	C	12.64	6.40	1,773.77	5.28	2,417.63		2,422.91
Office.....	4					1,716.37		3,607.65
Household.....	1	99.00	30.00					129.00
Motor Vehicles and Equipment.....	2					865.26		865.26
Tools.....	5	3,340.00	8.40	69.30	538.28	292.10		4,247.68
Repairs.....	7			254.90	28.07	235.01		4,607.96
General Plant.....	8		5.55	619.89	19.67	10,152.10		10,797.21
Light, Heat and Power								
Transportation.....	E	3.04	404.82	4,211.73	5,006.21	6,620.48		15,841.46
Hire of Automobiles.....	E4	1,926.89		565.20	483.20	20,334.12		23,734.23
Other Transportation.....	E6			92.02		1,196.28		1,288.30
Communication—								
Telephone.....	F	1,000.00				2.50		1,253.67
Telegraph and Messenger.....	E7					233.67		233.67
General Plant Service								
Contingencies.....	A	12.05	.85			10.96		24.00
Fixed Charges & Contributions—	B	10.74	2.30			373.73		528.18
Other Contributions.....	E8	4.45	150.00	6.00		610.05		624.70
Total Expenditures.....	C	\$ 30,887.27	\$ 12,024.96	\$ 30,950.60	\$ 12,004.24	\$ 988,485.19	\$ 1,527.23	\$ 1,075,909.49

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF FIRE—Continued

Account Title	Symbol	Fire Boat No. 1	Fire Boat No. 2	Fire Boat No. 3	Speed Squad No. 1	Engine No. 1	Engine No. 2
Personal Services—							
Salaries.....	A	\$ 30,224.90	\$ 28,567.65	\$ 23,359.28	\$ 30,900.15	\$ 25,485.75	\$ 26,990.45
Supplies—							
Fuel.....	1	355.56	679.49	140.13			273.78
Cleaning and Disinfecting.....	2	100.08	65.49	152.70	57.78	98.21	68.40
Motor Vehicle.....	5	1,449.71	956.23	1,217.61	35.35	6.77	30.75
Botanical and Agricultural.....	6						
Medical and Surgical.....	7						
General Plant.....	9	77.75	131.34	206.69	38.39		
Material	C				135.41	70.69	55.94
Building.....	3	149.31	1.26	339.93		4.76	
Office.....	4		141.08	246.31	88.84	68.28	1.02
Household.....	D						
Motor Vehicles and Equipment.....	2		60.00	72.28		153.25	
Tools.....	5		17.85	17.85			
Repairs.....	7		28.84	69.63	98.00		.53
General Plant.....	8		534.27	676.85		6.98	6.00
Light, Heat and Power							
Transportation.....	E	91.17	141.67	481.33	123.28	330.99	171.43
Hire of Automobiles.....	E4	236.40	295.06	140.57	404.00	388.46	818.27
Other Transportation.....	E6		109.68			1,086.60	
General Plant Service.....	E8					75.00	
Contingencies.....	F			8.73			
Total Expenditures.....		\$ 33,243.65	\$ 31,722.27	\$ 27,129.89	\$ 31,890.20	\$ 27,775.74	\$ 28,419.57

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF FIRE—Continued

Account Title	Symbol	Engine No. 3	Engine No. 4	Engine No. 5	Engine No. 6	Engine No. 7	Engine No. 8
Personal Services—							
Salaries.....	A 1	\$ 24,791.25	\$ 24,705.75	\$ 17,342.58	\$ 21,125.33	\$ 25,208.98	\$ 19,653.95
Supplies—							
Fuel.....	B 2	183.65	237.25	150.56	179.75	351.08	287.00
Cleaning and Disinfecting.....	5	95.51	52.40	53.69	40.93	108.08	40.91
Motor Vehicle.....	6	49.68	35.05	9.98	344.30	24.68	20.43
Botanical and Agricultural.....	7				1.80		7.24
Medical and Surgical.....	9						53.48
General Plant.....	10	35.72	32.19	62.11	54.25	73.96	
Material—	C						
Building.....	3		101.01	59.24	26.21	196.80	106.50
General Plant.....	4	5.19	3.50	3.22		184.49	67.68
Equipment—	D						
Household.....	2				46.90	10.00	
Motor Vehicles and Equipment.....	5				3.04	6.31	
Tools.....	7			.80	15.00	22.00	14.61
Repairs—	E						
General.....	8	28.51	34.63				
Motor Vehicle.....	3	103.77	560.39	194.01	137.94	423.05	235.66
Light, Heat and Power		68.60	10.15	9.05	1,583.48	16.09	6.49
Transportation.....	E4						
Other Transportation.....	E6						
General Plant Service	F						
Contingencies.....	E8						
.....	F	7.50					
Total Expenditures.....		\$ 25,379.38	\$ 25,772.32	\$ 17,885.54	\$ 23,505.56	\$ 26,031.73	\$ 20,543.95

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF FIRE—Continued

Account Title	Symbol	Engine No. 9	Engine No. 10	Engine No. 11	Engine No. 12	Engine No. 13	Engine No. 14
Personal Services—							
Salaries.....	A	\$ 19,866.00	\$ 19,832.45	\$ 1,237.50	\$ 17,668.70	\$ 21,437.20	\$ 21,374.26
Supplies—							
Fuel.....	B 2	263.50	109.28	27.50	129.34	206.75	114.91
Cleaning and Disinfecting.....	5	54.23	38.67	24.63	43.01	122.27	39.74
Motor Vehicle.....	6	114.20	20.00	2.42	5.90	13.17	4.53
Botanical and Agricultural.....	7		2.00		14.65		3.00
General Plant.....	10	53.23	36.26	100.51	44.52	128.34	43.03
Material—	C						
Sewer.....	2		3.65				
Building.....	3	22.47			72.98	114.49	26.42
General Plant.....	4	66.12		3.91	16.11	10.44	1.00
Equipment—	D						
Household.....	2	26.24	25.00	94.00	.75	34.87	
Motor Vehicles and Equipment.....	5		.81	2.52			
Tools.....	7	10.65	2.17	3.31		6.45	
General Plant.....	8	14.34	2.59	42.08	1.15	37.23	16.66
Repairs—	E						
General.....	2	155.10	20.01	28.89	81.41	165.76	80.24
Motor Vehicle.....	3	1,730.44	25.48	247.08	22.75	617.05	9.99
Total Expenditures.....		\$ 22,376.52	\$ 20,218.37	\$ 1,814.35	\$ 18,101.27	\$ 22,894.02	\$ 21,713.78

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF FIRE—Continued

Account Title	Symbol	Engine No. 15	Engine No. 16	Engine No. 17	Engine No. 18	Engine No. 19	Engine No. 20
Personal Services—	A	\$ 19,900.75	\$ 19,987.25	\$ 19,789.20	\$ 15,926.10	\$ 17,799.85	\$ 21,771.05
Salaries.....	1						
Supplies—	B	155.77	188.00	144.50	86.00	170.75	91.00
Fuel.....	2	57.40	70.08	42.59	32.73	34.77	47.46
Cleaning and Disinfecting.....	5	6.41	16.03	4.47	1.96	9.44	141.01
Motor Vehicle.....	6				2.70		
Botanical and Agricultural.....	7						
General Plant.....	10	32.19	59.34	64.51	40.44	39.55	41.79
Material—	C						
Sewer.....	2	15.03	10.52	64.90			23.52
Building.....	3	154.17	.77	105.98		20.97	1.36
General Plant.....	4						
Equipment—	D	4.75		45.00			
Household.....	2	5.25					
Motor Vehicles and Equipment.....	5	12.26		1.13		4.57	1.12
Tools.....	7	.60		57.15	12.00	18.00	16.20
General Plant.....	8						
Repairs—	E	288.44	121.71	117.34	188.93	19.83	36.06
General.....	2	1,596.90	621.68	6.86	5.14	38.97	
Motor Vehicle.....	3						
Total Expenditures.....		\$ 22,239.92	\$ 21,055.38	\$ 20,443.63	\$ 16,296.00	\$ 18,156.70	\$ 22,170.57

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF FIRE—Continued

Account Title	Symbol	Engine No. 21	Engine No. 22	Engine No. 23	Engine No. 24	Engine No. 25	Engine No. 26
Personal Services—	A	\$ 25,068.30	\$ 23,785.20	\$ 21,492.75	\$ 19,986.95	\$ 15,855.42	\$ 15,920.78
Salaries.....	1						
Supplies—	B		213.00	107.00	220.00	204.50	182.00
Fuel.....	2		101.92	61.67	57.44	61.60	57.63
Cleaning and Disinfecting.....	5	53.43	63.67	15.75	136.59	148.98	2.27
Motor Vehicle.....	6	21.20	187.01	60.64	40.07	106.78	36.63
General Plant.....	10	39.48					
Material—	C						
Building.....	3		177.64	6.55	146.07	638.52	2.90
General Plant.....	4	12.34	6.23		63.58	22.56	
Equipment—	D						
Household.....	2	2.34	.70	14.63	1.32	13.63	
Motor Vehicles and Equipment.....	5		1.10				
Tools.....	7		7.20	18.50	51.37	20.01	1.00
General Plant.....	8	10.78					
Repairs—	E	38.12	393.50	24.83	168.48	93.68	81.46
General.....	2	14.48	2.00	216.15	3,120.26	270.10	1.80
Motor Vehicle.....	3						
Total Expenditure.....		\$ 25,250.51	\$ 24,039.26	\$ 22,018.47	\$ 23,992.13	\$ 17,444.22	\$ 16,265.47

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF FIRE—Continued

Account Title	Symbol	Engine No. 27	Engine No. 28	Engine No. 29	Engine No. 30	Engine No. 31	Engine No. 32
Personal Services—							
Salaries.....	A	\$ 17,890.50	\$ 15,051.86	\$ 15,976.45	\$ 15,866.90	\$ 15,828.85	\$ 21,829.10
Supplies—							
Fuel.....	B	112.04	112.00	118.00	139.50	161.24	194.56
Cleaning and Disinfecting.....	2	63.38	28.07	64.05	37.77	38.27	42.76
Motor Vehicle.....	6	.40	6.41	1.70	1.28	48.24	296.66
General Plant.....	10	24.33	24.65	24.88	35.68	61.34	39.06
Material—							
Building.....	3				.66	63.50	2.76
General Plant.....	4	4.80		2.07		75.23	
Equipment—							
Household.....	D				15.00		
Motor Vehicles and Equipment.....	5	.85				1.58	
Tools.....	7	16.66	22.63	6.00	46.97	24.00	16.66
Repairs—							
General.....	E	171.57	35.49	49.10	67.77	107.16	69.44
Motor Vehicle.....	3	4.13	74.43	18.47	18.47	375.68	913.75
Total Expenditure.....		\$ 18,288.66	\$ 15,955.54	\$ 16,242.25	\$ 16,230.62	\$ 16,820.73	\$ 23,404.95

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF FIRE—Continued

Account Title	Symbol	Engine No. 33	Engine No. 34	Engine No. 36	Engine No. 37	Truck No. 1	Truck No. 2
Personal Services—							
Salaries.....	A	\$ 15,364.87	\$ 1,265.00	\$ 1,245.30	\$ 1,245.00	\$ 26,852.70	\$ 27,594.60
Supplies—							
Fuel.....	B	143.37	37.50	27.50	27.50		
Cleaning and Disinfecting.....	2	24.63	30.87	40.17	55.79	73.92	70.62
Motor Vehicles.....	6	6.45	.83	.83	.83	23.57	19.76
Medical and Surgical.....	9					1.81	
General Plant.....	10	7.82	112.43	114.40	104.03	33.17	41.68
Material—							
Building.....	C						
General Plant.....	3	303.31	3.90	3.91	3.91	6.12	50.03
Equipment—							
Household.....	D						
Motor Vehicles and Equipment.....	2		94.00	94.00	94.00		
Tools.....	7	1.82	8.37	5.62	5.25		
General Plant.....	8	18.00	44.48	46.68	54.83	2.25	88.13
Repairs—							
General.....	E	20.64	17.03	15.25	12.55	425.20	18.32
Motor Vehicle.....	2	171.70	.96	19.60	19.60	440.62	264.05
Total Expenditures.....		\$ 15,962.61	\$ 1,617.04	\$ 1,611.35	\$ 1,603.69	\$ 27,859.36	\$ 28,086.09

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF FIRE—Continued

Account Title	Symbol	Truck No. 3	Truck No. 4	Truck No. 5	Truck No. 6	Truck No. 7	Chemical No. 1
Personal Services—							
Salaries.....	A	\$ 26,630.40	\$ 23,292.46	\$ 21,103.00	\$ 16,064.00	\$ 8,807.20	\$ 8,007.20
Supplies—							
Fuel.....	B	89.57	139.85	60.87	60.49	63.55	29.41
Cleaning and Disinfecting.....	2	6.56	280.45	18.35	186.57	2.21	3.78
Motor Vehicle.....	5	9.53	1.90	61.85	83.24	145.10	56.55
Medical and Surgical.....	6	118.79	90.00				
General Plant.....	10	14.13	1.78	6.41	.05	1.10	1.25
Material—							
Building Plant.....	3	1.15		6.65	.69	5.22	
General Plant.....	4						
Equipment—							
Household.....	D	32.63	17.85		29.44		
Motor Vehicles and Equipment.....	2	1.13					
Tools.....	5	21.50	8.80	.98	110.43	49.11	275.00
General Plant.....	7						
Repairs—							
General.....	8	41.55	42.39	136.51	27.89	1.18	27.71
Motor Vehicle.....	2	161.01	212.03	709.45	958.64	7.91	8.01
Motor Vehicle.....	3						
Total Expenditures.....		\$ 27,126.82	\$ 24,087.64	\$ 22,104.07	\$ 18,121.44	\$ 9,082.58	\$ 8,410.91

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF FIRE—Continued

Account Title	Symbol	Chemical No. 2	Miscellaneous Overhead	Totals Operation and Maintenance
Personal Services—				
Salaries.....	A		\$ 1,600.00	\$ 919,807.12
Special Services.....	1		640.00	640.00
Supplies—				
Office.....	B		303.39	303.39
Fuel.....	1		45.35	6,556.61
Cleaning and Disinfecting.....	2			2,083.48
Motor Vehicle.....	5		3,179.01	9,040.10
Botanical and Agricultural.....	6	\$ 45.47		24.15
Medical and Surgical.....	7			58.87
General Plant.....	9		244.97	3,571.21
Material—				
Building.....	10			2,417.63
General Plant.....	C		68.13	1,716.37
Equipment—				
Household.....	3			885.26
Motor Vehicles and Equipment.....	4		95.42	292.10
Tools.....	5		39.10	325.01
General Plant.....	7		7,102.05	10,152.10
Repairs—				
General.....	8			6,690.48
Motor Vehicle.....	D	44.49	130.76	20,354.12
Motor Vehicle.....	2	139.42	3,850.51	1,190.28
Light, Heat and Power.....	E4			

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF FIRE—Continued

Account Title	Symbol	Chemical No. 2	Miscellaneous Overhead	Totals Operation and Maintenance
Transportation—	E6			
Hire of Automobiles.....	B		2.50	2.50
Other Transportation.....	F		253.67	253.67
Communication—	E7			
Telegraph and Messenger.....	B		10.96	10.96
General Plant Service.....	E8		365.00	373.73
Contingencies.....	F		527.55	610.05
Fixed Charges and Contributions—	G			
Other Contributions.....	7		300.00	300.00
Total Expenditures.....		\$ 230.10	\$ 18,258.37	\$ 988,485.19
Total Warrants Drawn.....				\$ 1,235,340.56
Miscellaneous Debits.....				61,200.06
Miscellaneous Credits (Deduct).....				220,631.13
Claims Outstanding.....				235.00
Total Encumbrance.....				\$ 1,076,144.49
Total Appropriation.....				1,076,040.40
Unencumbered Balance.....				\$ * 104.09

* Deficit.

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF STREET CLEANING

Account Title	Symbol	Executive and Clerical	Cleaning Streets	Dump	Flushing Streets	Macadam and Gravel	Shop
Personal Services—	A	\$ 14,520.00	\$ 49,182.13	\$ 4,642.00	\$ 134,917.73	\$ 16,200.80	\$ 3,884.52
Salaries.....	B	102.29					
Supplies—	1					101.28	
Office.....	2						
Fuel.....	5						
Cleaning and Disinfecting.....	6				12,558.41		175.78
Motor Vehicle.....	8	697.35			64.65		335.58
General Plant.....	10						
Material—	C						
Building.....	3			24.20			
General Plant.....	4						
Equipment—	D						
Motor Vehicles and Equipment.....	7				36.09		353.48
Tools.....	9				256.12		142.50
General Plant.....	6						
Repairs—	B		2.43				
General.....	2	8.00					
Motor Vehicle.....	3	859.63					
Transportation—	E9						
Hire of Automobiles.....	B						
Carfare.....	F	73.00					
Contingencies.....	G						
Fixed Charges and Contributions—	C						
Rent.....	2					82.15	
						.50	
Total Expenditures.....		\$ 16,291.17	\$ 49,515.13	\$ 4,666.20	\$ 163,002.43	\$ 16,444.73	\$ 4,907.21

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF STREET CLEANING—Continued

Account Title	Symbol	Moving Snow	Cleaning Catch Basins	Auto Trucks	Garage	Totals
Personal Services—						
Salaries.....	A 1	\$ 7,460.88	\$ 5,666.42		\$ 8,623.97	\$ 245,098.45
Supplies—						
Office.....	B 1					102.29
Fuel.....	2				988.36	1,099.64
Cleaning and Disinfecting.....	5				92.47	92.47
Motor Vehicle.....	6		948.92		85.98	20,441.30
General Plant.....	10	16.64		5,974.86	105.89	522.76
Material—						
Building.....	C 3	159.40	6.65	2.75	132.74	715.31
General Plant.....	4		45.55	358.89	1.54	804.60
Equipment—						
Motor Vehicles and Equipment.....	5			10,176.06		17,123.57
Tools.....	7	2.50	16.50	7.75	261.44	671.59
General Plant.....	8				17.54	539.19
Repairs—						
General.....	E 2	105.96	618.33	1,804.47	414.22	423.62
Motor Vehicle.....	E6					1.00
Transportation—						
Hire of Automobiles.....	B			1.00		73.00
Carfare.....	E					264.50
Contingencies	F		19.00	237.00		
Fixed Charges and Contributions—						
Rent.....	C 2					90.00
Total Expenditures.....		\$ 7,992.88	\$ 7,323.45	\$ 18,563.28	\$ 10,674.15	\$ 299,410.63
Total Warrants Drawn.....						\$ 282,745.97
Miscellaneous Debits.....						17,081.72
Miscellaneous Credits (Deduct).....						417.06
Claims Outstanding.....						240.00
Total Encumbrance.....						\$ 209,650.63
Total Appropriation.....						299,660.63

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF PUBLIC WORKS

Account Title	Symbol	Com-missioner's Office	Com-missioner's Stock Account	Bureau of Standards Chemical Laboratory	Bureau of Standards Physical Laboratory	Bureau of Buildings Building Division	Bureau of Buildings Electrical Division
Personal Services—							
Salaries.....	A 1	\$ 22,365.28		\$ 2,460.00	\$ 4,830.00	\$ 37,287.11	\$ 32,398.16
Supplies—							
Office.....	B 1	626.79	\$ **30.60		60.42	557.56	875.60
Fuel.....	2	20.00					
Food.....	4				4.30		
Cleaning and Disinfecting.....	5				114.55		67.81
Motor Vehicle.....	6	241.68					
Medical and Surgical.....	9			25.40			
General Plant.....	10	3.02			188.07	4.95	24.11
Material—							
Highway.....	C 1						
Brewer.....	2						
Building.....	3	236.89				.90	
General Plant.....	4		.30				
Equipment—							
Office.....	D 1	111.64				41.85	198.75
Motorless Vehicles and Equipment.....	4						465.00
Motor Vehicles and Equipment.....	5	1,566.50					
Educational and Recreational.....	6						5.48
Tools.....	7						150.75
General Plant.....	8			34.16			103.92
Repairs—							
General.....	E 2	24.46					7.80
Motor Vehicle.....	3	78.65					36.44

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Symbol	Bureau of Buildings		Bureau of Maintenance			
		Plumbing Division	Permit Division	City Engineer's Office	Office Expense	Street Repair	Sewer Repair
Transportation—	E6						
Hire of Horses.....	A						\$ 35.00
Hire of Automobiles.....	B						65.00
Storage Motor Vehicles.....	C						84.08
Carfare.....	E	\$ 3.65		\$ 106.59	\$ 51.10	\$ 36.50	
Other Transportation.....	F						
Communication—	E7						
Telephone.....	A			.45			
Telegraph and Messenger.....	B			2.65			
General Plant Service.....	E8	15.00	\$ 87.20	15.00	15.00	329.36	314.97
Contingencies.....	F					1,202.30	610.35
Fixed Charges and Contributions—	G					83.00	85.00
Rent.....	2					1,232.98	1,503.23
Insurance.....	4						
Other Fixed Charges.....	6						
Total Expenditures.....		\$ 21,530.03	\$ 14,003.58	\$ 13,137.86	\$ 19,495.86	\$ 73,326.44	\$ 64,029.06

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Symbol	Bureau of Maintenance						
		Bridge Repair	Stanton Yard	Hard Surface Streets	Removal of Slides	Elimination of Corners	Mildred Avenue Slide	
Personal Services—	A	\$ 8,429.61	\$ 3,506.10		\$ 1,022.23	\$ 2,254.19	\$ 370.95	
Salaries.....	1						7.62	
Office.....	B						1.31	
Fuel.....	1		70.55		97.31	159.67	1.01	
Motor Vehicle.....	2	210.64			14.55	8.86		
General Plant.....	6	59.85	30.82					
Material—	C							
Highway.....	1	1,797.69				931.08		
Sewer.....	2							
Building.....	3		504.82					
General Plant.....	4	225.11	2.55					
Equipment—	D							
Motor Vehicles and Equipment.....	5	8.40						
Tools.....	7	35.70						
General Plant.....	8	16.80						
Repairs—	E							
General.....	2	379.67	8.55	\$ 100,000.00	5.08	1,140.60	3,051.24	
Motor Vehicle.....	3	226.03	10.38		74.49	82.08	1.84	
Light, Heat and Power.....	E4							
Transportation.....	E6							
Carfare.....	E	7.30	7.30			3.65	1.31	
Other Transportation.....	F							
General Plant Service.....	E8	248.23			6.84	376.66		
Contingencies.....	F	261.30						
Fixed Charges and Contributions—	G							
Rent.....	2	2.50						
Insurance.....	4	403.88	84.79					
Total Expenditure.....		\$ 12,312.75	\$ 4,225.86	\$ 100,000.00	\$ 1,220.50	\$ 4,966.79	\$ 3,435.28	

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Symbol	Bureau of Maintenance				
		31st Street Slide	Redecking Union Ave. Bridge	Front Street Bridge	Major Sewers	Columbia Slough Channel
Personal Services—	A					
Salaries.....	1	1,611.85	463.05		4,107.98	81.43
Supplies—	B					.38
Office.....	1		13.65			
Fuel.....	2					.75
Motor Vehicle.....	6	23.59	1.94		47.51	
General Plant.....	10	8.26	8.37		19.29	1.34
Material—	C					
Highway.....	1	5.44		758.76	1,164.87	
Sewer.....	2					
Building.....	3					
General Plant.....	4	673.61				2,312.52
Equipment—	D					
Motor Vehicles and Equipment.....	5					
Tools.....	7					
Repairs—	E					
General.....	2	12.89	8,679.76		584.79	.37
Motor Vehicle.....	3	14.13	2.76		40.17	1.01
Light, Heat and Power.....	F4					
Transportation—	E6					
Carfare.....	E		2.56			.29
Other Transportation.....	F					1.50
General Plant Service.....	E8			241.24	35.39	
Contingencies	F					
Fixed Charges and Contributions—	G					
Rent.....	2					
Insurance.....	4					
Total Expenditures.....		\$ 2,364.06	\$ 9,172.09	\$ 1,000.00	\$ 6,000.00	\$ 2,399.59

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Symbol	Bureau of Construction			
		Office Routine	County Street Signs	Resurvey of Linnnton	Revision of 1/4 Section Sheets
Personal Services—	A				
Salaries.....	1	45,671.67		1,909.10	9,05.21
Supplies—	B				
Office.....	1	** 1,663.69		26.60	23.08
Fuel.....	2				
Motor Vehicle.....	6	716.65		19.06	1.28
General Plant.....	10	1,428.34		10.71	2.29
Material—	C				
General Plant.....	4	25.65			
Equipment—	D				
Office.....	1	741.76			
Motor Vehicles and Equipment.....	5	2,339.40			
Tools.....	7	94.17			
General Plant.....	8	553.20			
Repairs—	E				
General.....	2	**42.42			
Motor Vehicle.....	3	64.71		3.10	2.58
Janitorial Service	E5	3.29		26.87	1.84
Transportation—	E6				
Carfare.....	E	204.59		4.56	3.72
Communication—	E7				
Telephone.....	A	.55			
Telegraph and Messenger.....	B				
General Plant Service.....	E8	361.75	\$ 200.00		
Contingencies	F	1,318.90			
Fixed Charges and Contributions—	G				
Rent.....	2	26.00			
Other Fixed Charges.....	7	1.70			
Total Expenditures.....		\$ 51,846.23	\$ 200.00	\$ 2,000.00	\$ 1,000.00

** Credit.

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Symbol	Bureau of Construction				
		West Side Trunk Sewer Survey	Setting Monuments	Sewerage Study	Street Signs	
Personal Services—						
Salaries.....	A	\$ 1,837.29	\$ 969.79	\$ 1,704.21	\$ 3,705.72	
Supplies—						
Office.....	B	36.24	17.08	35.56	88.90	
Fuel.....	1				6.98	
Motor Vehicle.....	2				82.57	
General Plant.....	6	6.22	3.17	15.49	2,927.05	
Material—						
General Plant.....	C	3.08	.49	56.55	1,545.25	
Equipment—						
Office.....	D			12.00		
Motor Vehicles and Equipment.....	1				3.36	
Tools.....	5				14.84	
General Plant.....	7			55.00		
Repairs—						
General.....	E					
Motor Vehicle.....	2	2.17	2.01	10.85	6.15	
Janitorial Service.....	3	8.79	4.47	103.59	44.01	
Transportation—						
Carfare.....	E6					
General.....	E7	6.21	2.99	6.75	10.67	
Communication—						
Telephone.....	A					
Telegraph and Messenger.....	B				2.25	
General Plant Service—						
Contingencies.....	E8				1,582.24	
Fixed Charges and Contributions—						
Rent.....	F					
Other Fixed Charges.....	G					
Other.....	7					
Total Expenditures.....		\$ 2,000.00	\$ 1,000.00	\$ 2,000.00	\$ 10,000.00	

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Sym- bol	Total Department Public Works	Maintenance Stock Account	% Engineering Rotary	Engineering Water Front	Sidewalk Rotary	Engineering Street Widening	Grand Total
Personal Services—								
Salaries.....	A	\$ 332,173.45		\$ 130,007.85	\$ 38,365.05	\$ 3,511.46		\$ 504,717.81
Special Services.....	1				10,410.90			10,410.90
Supplies—								
Office.....	B	3,222.59		2,909.43	1,248.72			7,380.74
Fuel.....	1	1,110.74						1,110.74
Food.....	4	20.00						20.00
Cleaning and Disinfecting.....	5	35.3						35.3
Motor Vehicle.....	6	6,923.39	\$ **37.94	508.74	224.39	316.19		7,929.77
Medical and Surgical.....	9	3.00						3.00
General Plant.....	10	5,550.39	**217.65	258.29	100.43	88.98		5,841.64
Material—								
Highway.....	C	16,474.84						16,474.84
Sewer.....	1	8,821.17						8,821.17
Building.....	2	741.71						741.71
General Plant.....	4	5,074.90	944.60	2.10	16.59			6,038.28
Equipment—								
Office.....	D	1,616.74						1,616.74
Motorless Vehicles and Equipment.....	1	333.00						333.00
Motor Vehicles and Equipment.....	5	6,252.02			8.40			6,260.42
Educational and Recreational.....	7	8.40						8.40
Tools.....	6	451.03	35.81		4.35			494.19
General Plant.....	8	1,821.34	219.04		34.45	1,206.03		3,280.86
Repairs—								
General.....	E	120,902.08		225.58	59.45	46.46		121,233.57
Motor Vehicle.....	2	5,132.84		690.39	373.45	117.77		6,323.45
Light, Heat and Power								
Janitorial Service.....	E4	10.38						10.38
Transportation—								
Carfare.....	E5	3.29						3.29
Motor Vehicle.....	E6							
Hire of Horses.....	A	35.00						35.00
Hire of Automobiles.....	B	3.68			3.00			6.68
Storage Motor Vehicles.....	C	65.50						65.50
Carfare.....	E	692.73		543.58	185.63			1,421.84
Other Transportation.....	F	672.70			338.66			1,011.36

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC WORKS—Continued

Account Title	Sym- bol	Total Department Public Works	Maintenance Stock Account	% Engineering Rotary	Engineering Water Front	Sidewalk Rotary	Engineering Street Widening	Grand Total
Communication—	E7							
Telephone.....	A	\$ 8.00			\$ 12.15			\$ 8.00
Telegraph and Messenger.....	B	8.26			31.43			20.41
General Plant Service.....	E8	4,057.54		\$ 625.00				4,731.93
Contingencies.....	F	3,392.85		12.60				3,463.40
Fixed Charges and Contributions—	G							
Interest.....	1A				3,500.04			3,500.04
Rent.....	2	196.50			40.00			236.50
Insurance.....	4	3,224.88			656.78			4,153.74
Other Fixed Charges.....	6			1.75		272.08		2,166.95
Other Contributions.....	7	3.70			2,165.20			3.70
Engineering Street Widening.....							\$ 15,000.00	15,000.00
Total Expenditures.....		\$ 529,044.09	\$ 943.95	\$ 136,450.31	\$ 57,838.97	\$ 7,913.98	\$ 15,000.00	\$ 747,191.30
Total Warrants Drawn.....		\$ 561,000.62	\$ 12,659.41	\$ 58,746.08	\$ 17,779.78	\$ 1,432.10	\$ 9,668.30	\$ 661,286.29
Miscellaneous Debits.....		188,136.24	2,338.35	86,999.49	40,177.19	8,267.56	5,331.70	331,250.53
Miscellaneous Credits (Deduct).....		220,092.77	14,053.81	9,295.26	118.00	1,785.68		245,345.52
Claims Outstanding.....		6.50						6.50
Total Encumbrance.....		\$ 528,050.59	\$ 943.95	\$ 136,450.31	\$ 57,838.97	\$ 7,913.98	\$ 15,000.00	\$ 747,197.80
Total Appropriation.....		530,190.06	1,000.00	139,969.41	63,927.18	9,501.65	15,000.00	759,558.30
Unencumbered Balance.....		\$ 1,109.47	\$ 56.05	\$ 3,519.10	\$ 6,088.21	\$ 1,587.67		\$ 12,360.50

** Credit.

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC UTILITIES

Account Title	Symbol	Com- missioner's Office	Lighting	Bureau of Weights and Measures	Bureau of Health	Totals
Personal Services—	A	\$ 10,171.69		\$ 5,270.61	\$ 117,559.64	\$ 133,001.94
Salaries.....	1				2,298.70	2,590.57
Supplies—	B	214.83		47.04	872.50	872.50
Office.....	1				5,156.99	5,156.99
Fuel.....	2				1,233.03	1,233.03
Food.....	4	.80		146.08	3,346.72	3,494.80
Cleaning and Disinfecting.....	5				4,640.48	4,640.48
Motor Vehicle.....	6				686.35	686.35
Medical and Surgical.....	9					
General Plant.....	10					
Material—	C				104.26	104.26
Building.....	3				.60	.60
General Plant.....	4					
Equipment—	D				301.48	311.73
Office.....	1	10.25			541.26	556.01
Household.....	2	14.75			3,507.73	4,142.53
Motor Vehicles and Equipment.....	5			634.80	42.00	4,142.53
Educational and Recreational.....	6					
Tools.....	7					
General Plant.....	8			6.71	11.46	11.46
Contract and Open Order Service—	E		\$ 4,022.33		1,051.02	1,057.73
Construction and Extension.....	1					4,022.33
Repair.....	2					
General.....	3					
Motor Vehicle.....	4				1,172.61	1,172.61
Light, Heat and Power	E4			88.14	2,521.76	2,609.90
Lighting Streets.....	1		270,852.58		246.46	246.46
Lighting Buildings.....	A		12,904.30			270,852.58
Lighting.....	B					12,904.30
Janitorial Service.....	E5				838.60	838.60

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
DEPARTMENT OF PUBLIC UTILITIES—Continued

Account Title	Symbol	Com- missioner's Office	Lighting	Bureau of Weights and Measures	Bureau of Health	Totals
Transportation—	E6				\$ 3,678.55	\$ 3,678.55
Hire of Automobiles	B				1,242.09	1,242.09
Carefare	E					17.76
Other Transportation	F					
Communication—	E7			\$ 17.76		
Telephone	A				8.65	8.65
Telegraph and Messenger	B	\$ 2.64			4.73	7.37
General Plant Service	E8				10,203.25	10,203.25
Dental Clinic					2,750.00	2,750.00
Rat Fund					201.43	201.43
Total Expenditures		\$ 10,414.96	\$ 287,779.21	\$ 6,211.14	\$ 164,246.35	\$ 468,651.66
Total Warrants Drawn		\$ 10,207.80	\$ 287,779.21	\$ 5,906.91	\$ 154,178.01	\$ 458,071.93
Miscellaneous Debits		207.16		304.23	10,557.54	11,068.93
Miscellaneous Credits (Deduct)					489.20	489.20
Claims Outstanding						
Total Encumbrance		\$ 10,414.96	\$ 287,779.21	\$ 6,211.14	\$ 164,246.35	\$ 468,651.66
Total Appropriation		10,414.96	287,779.21	6,211.14	164,246.35	468,651.66
Unencumbered Balance						

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF HEALTH

Account Title	Symbol	Main Office	Contagious Division	Bacterio- logical Laboratory Division	School Division	Milk Division
Personal Services—	A	\$ 14,400.92	\$ 8,100.00	\$ 7,856.71	\$ 15,698.64	\$ 14,031.60
Salaries	1					
Supplies—	B	432.17	224.98	69.03	937.04	101.06
Office	2					
Fuel	4					
Cleaning and Disinfecting	5		780.00	35.70		
Motor Vehicle	6	298.58	879.24		159.94	1,199.72
Medical and Surgical	9		1,744.98	831.97	377.93	16.44
General Plant	10	2.50		11.13	20.95	46.40
Material—	C					
Building	3			.98		3.00
General Plant	4	.35	.10			
Equipment—	D	290.70				
Office	1					
Household	2					
Motor Vehicles and Equipment	5	1,300.00	16.80	2.55	10.28	572.25
Educational and Recreational	6					
Tools	7					
General Plant	8			917.18		
Repairs—	E					
General	1	24.35	546.62	193.95	79.86	1,006.13
Motor Vehicle	2	355.05				
Light, Heat and Power	3					
	E4					

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF HEALTH—Continued

Account Title	Symbol	Main Office	Contagious Division	Bacteriological Laboratory Division	School Division	Milk Division
Janitorial Service	E5					
Transportation —	E6					
Hire of Automobiles.....	B					
Carfare.....	E7			5.01	015.82	\$ 127.00
Communication —						
Telephone.....	A	7.25			.45	
Telegraph and Messenger.....	B	2.94			.30	
General Plant Service	E8	10.00			2,750.00	
Dental Clinic.....						
Rat Fund.....						
Total Expenditures.....		\$ 17,124.81	\$ 12,292.72	\$ 10,148.63	\$ 20,705.31	\$ 17,106.60

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

BUREAU OF HEALTH—Continued

Account Title	Symbol	Meat Division	Emergency Hospital	Sanitary Division	Isolation Hospital	Totals
Personal Services —	A	\$ 15,256.53	\$ 9,064.48	\$ 24,917.38	\$ 8,233.38	\$ 117,559.64
Salaries.....	1					2,298.70
Supplies —	B					33.95
Office.....	1	23.36	66.80	410.31	872.50	872.50
Fuel.....	2				4,613.34	5,158.99
Food.....	4		545.65		437.33	1,233.03
Cleaning and Disinfecting.....	5			312.46		3,348.72
Motor Vehicle.....	6	488.78	1,142.65	3.49	514.52	4,640.45
Medical and Surgical.....	9	7.50	1,118.79	19.23	465.35	686.35
General Plant.....	10					104.26
Material —	C					.60
Building.....	3		12.36	.15		301.48
General Plant.....	4					541.26
Equipment —	D					3,507.73
Office.....	1		10.78		517.99	42.00
Household.....	2		20.72	558.40		11.46
Motor Vehicles and Equipment.....	5	1,050.00				91.84
Educational and Recreational.....	6					952.69
Tools.....	7		42.00			246.46
General Plant.....	8					
Repairs —	E					
General.....	2		26.62	5.00		
Motor Vehicle.....	3	400.25	133.38			
Light, Heat and Power	E4					

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
BUREAU OF HEALTH—Continued

Account Title	Symbol	Meat Division	Emergency Hospital	Sanitary Division	Isolation Hospital	Totals
Janitorial Service	E5		\$ 429.86	\$ 74.22	\$ 36.00	\$ 838.60
Transportation —	E6					3,678.55
Hire of Automobiles.....	B		3,678.55	442.81		1,242.09
Carfare.....	E5	\$ 47.45	4.00			
Communication —	E7					8.65
Telephone.....	A	.15		.77	.80	4.72
Telegraph and Messenger.....	B					10,203.23
General Plant Service	E8		10,193.25			2,750.00
Dental Clinic.....						201.43
Rat Fund.....				201.43		
Total Expenditures		\$ 17,274.02	\$ 25,356.51	\$ 27,079.50	\$ 17,158.25	\$ 164,246.35
Total Warrants Drawn.....						\$ 151,178.01
Miscellaneous Debits.....						10,537.54
Miscellaneous Credits (Deduct).....						489.20
Claims Outstanding.....						
Total Encumbrance						\$ 164,246.35
Total Appropriation						164,246.35
Unencumbered Balance.....						

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued
SPECIAL DEPARTMENTS

Account Title	Symbol	Civil Service Board	Department of Auditing	City Planning Commission	Totals
Personal Services —	A	\$ 6,295.97	\$ 79,883.95	\$ 5,825.81	\$ 92,005.73
Salaries.....	1				
Supplies —	B				6,845.96
Office.....	1	630.17	5,825.54	390.25	7.58
Cleaning and Disinfecting.....	5		7.58		157.12
Motor Vehicle.....	6				66.32
General Plant.....	10				7.34
Material —	C				
General Plant.....	4				
Equipment —	D				
Office.....	1		886.91		1,219.71
Motor Vehicles and Equipment.....	5				51.11
General Plant.....	8		15.00		15.00
Repairs —	E				
General.....	2	3.45	75.99		107.61
Motor Vehicle.....	3				
Transportation —	E6				1.29
Other Transportation.....	F				15.00
General Plant Service	E8		420.00		435.00
Fixed Charges and Contributions —	G				
Rent.....	1				150.00
Special Studies.....	2	150.00		3,420.23	3,420.23
Total Expenditures		\$ 7,079.59	\$ 87,114.97	\$ 10,374.88	\$ 104,569.44
Total Warrants Drawn.....		\$ 6,590.42	\$ 82,550.80	\$ 9,620.32	\$ 98,770.54
Miscellaneous Debits.....		580.17	5,675.97	759.36	7,015.50
Miscellaneous Credits (Deduct).....		100.00	1,111.80	4.80	1,216.60
Claims Outstanding.....				477.15	477.15
Total Encumbrance		\$ 7,079.59	\$ 87,114.97	\$ 10,852.03	\$ 105,046.59
Total Appropriation		7,079.59	87,114.97	10,852.03	105,046.59
Unencumbered Balance.....					

ANALYSIS OF ANNUAL EXPENSES OF THE VARIOUS DEPARTMENTS PAYABLE OUT OF THE GENERAL FUND FOR YEAR ENDING NOVEMBER 30, 1928—Continued

SPECIAL APPROPRIATIONS—Continued

Account Title	Total Expenditures	Total Warrants Drawn	Miscellaneous Debits	Miscellaneous Credits (Deduct)	Claims Outstanding	Total Encumbrance	Total Appropriation	Unencumbered Balance
Relief of Rachel Powers	\$ 50.13	\$ 50.13				\$ 50.13	\$ 50.13	
Removal of Snow and Ice	39,394.44	37,525.13	1,904.40	35.09	500.00	39,894.44	39,894.44	
Rents and Leases	540.00	540.00				540.00	540.00	
Repairs to Bridges	2,962.13	2,962.13				2,962.13	2,962.13	
Securing Evidence	13,500.00	13,500.00				13,500.00	13,500.00	
Settlement of Woodstock Avenue	403.00	403.00				403.00	403.00	
Slope Easement First St. Fill	70.00	70.00				70.00	70.00	
Smoke Nuisance Expense	835.00	835.00		94.00		835.00	835.00	
State Auto License	309.08	403.08				309.08	309.08	
Street Fountain Maintenance	1,000.00		1,000.00			1,000.00	1,000.00	
Interest on Loans	28,005.63	31,730.24		3,724.61		28,005.63	28,005.63	
Telegraph and Cable Service	81.10	38.61	81.10			38.61	125.00	43.90
Telephone Franchise Expense	300.00	300.00				300.00	300.00	
Terwilliger Boulevard Fill	7,500.00	7,500.00				7,500.00	7,500.00	
Transfer to Public Auditorium, Fd.	11,000.00	11,000.00				11,000.00	11,000.00	
Transfer to Street and Sewer Interest Fd.	9,500.00	9,500.00				9,500.00	9,500.00	
Visiting Nurse Association	455.00	455.00				455.00	455.00	
Water Power Rights	397.41	250.00	147.41			397.41	397.41	
Widening Jefferson and Chapman Streets								
Total Expenditures	\$530,794.64	\$532,772.16	\$ 4,297.64	\$ 6,275.16	\$ 35,558.61	\$566,353.25	\$566,397.15	\$ 43.90

APPROPRIATIONS BROUGHT FORWARD FROM 1927 AND WARRANTS DRAWN IN PAYMENT OF CLAIMS AUTHORIZED DURING THE YEAR 1927, FOR EACH DEPARTMENT BY BUREAU

Account Title	Symbol	Bureau of Parks	Bureau of Licenses	Public Market	Garbage Disposal	Bureau of Fire	Department of Public Works
Personal Services—							
Special Services	A						
Office	2						
Motor Vehicle	B						
Medical and Surgical	1						
General Plant	6				\$ 76.80		
General Plant	9		\$ 639.00				
General Plant	10						
General Plant	C						
General Plant	4	\$ 288.52					
Equipment	D						
Motor Vehicles and Equipment	5						
Contract and Open Order Service—	E						
Construction and Extension	1						
Repairs—	E2						
General	2	177.80					
Light, Heat and Power	E4	49.00					
Musical							
Total		\$ 515.32	\$ 639.00	\$ 539.00	\$ 76.80	\$ 6,841.93	\$ 87.10
Total Warrants Drawn		\$ 515.32	\$ 639.00	\$ 539.00	\$ 76.80	\$ 6,841.93	\$ 87.10
Miscellaneous Debits							
Miscellaneous Credits (Deduct)							
Claims Outstanding							
Total Encumbrance		\$ 515.32	\$ 639.00	\$ 539.00	\$ 76.80	\$ 6,841.93	\$ 87.10
Total Appropriation		515.32	639.00	539.00	76.80	6,841.93	87.10
Unencumbered Balance							

APPROPRIATIONS BROUGHT FORWARD FROM 1927 AND WARRANTS DRAWN IN PAYMENT OF CLAIMS AUTHORIZED DURING THE YEAR 1927 FOR EACH DEPARTMENT BY BUREAU—Continued

Account Title	Symbol	Bureau of Health	Lighting	Planning Commission	Annual Audit of Financial Books	Expense Accounting Oregon Society	Electric Examiner's Expense
Personal Services—							
Special Services.....	A				\$ 1,600.00	\$ 400.00	\$ 00.00
Supplies—	B						
Office.....	1			\$ 485.75			
Motor Vehicle.....	6						
Medical and Surgical.....	9	\$ 212.00					
General Plant.....	10						
Material—	C						
General Plant.....	4						
Equipment—	D						
Motor Vehicles and Equipment.....	5						
Contract and Open Order Service—	E						
Construction and Extension.....	1		\$ 3,197.55				
Repairs.....	2						
General.....	E4						
Light, Heat and Power							
Music.....							
Totals.....		\$ 212.00	\$ 3,197.55	\$ 485.75	\$ 1,600.00	\$ 400.00	\$ 00.00
Total Warrants Drawn		\$ 212.00	\$ 3,197.55	\$ 485.75	\$ 1,600.00	\$ 400.00	\$ 00.00
Miscellaneous Debits							
Miscellaneous Credits (Deduct).....							
Claims Outstanding.....							
Total Encumbrance		\$ 212.00	\$ 3,197.55	\$ 485.75	\$ 1,600.00	\$ 400.00	\$ 00.00
Total Appropriation		212.00	3,197.55	485.75	1,600.00	400.00	00.00
Unencumbered Balance.....							

APPROPRIATIONS BROUGHT FORWARD FROM 1927 AND WARRANTS DRAWN IN PAYMENT OF CLAIMS AUTHORIZED DURING THE YEAR 1927 FOR EACH DEPARTMENT BY BUREAU—Continued

Account Title	Symbol	Oregon Humane Society	Printing Annual Report	Grand Total Prior Year
Personal Services—				
Special Services.....	A			\$ 2,150.00
Supplies—	B			
Office.....	1		\$ 3,544.93	4,030.68
Motor Vehicle.....	6			76.80
Medical and Surgical.....	9			212.00
General Plant.....	10			630.00
Material—	C			
General Plant.....	4			288.52
Equipment—	D			
Motor Vehicles and Equipment.....	5			1,310.06
Contract and Open Order Service—	E			
Construction and Extension.....	1			3,197.55
Repairs.....	2			6,157.97
General.....	E4			177.80
Light, Heat and Power				
Fixed Charges and Contributions—	G	\$ 9,194.16		9,194.16
Other Contributions.....	7			49.00
Music.....				
Totals.....		\$ 9,194.16	\$ 3,544.93	\$ 27,483.54
Total Warrants Drawn.....		\$ 9,194.16	\$ 3,544.93	\$ 27,266.67
Miscellaneous Debits				
Miscellaneous Credits (Deduct).....				216.67
Claims Outstanding.....				
Total Encumbrance		\$ 9,194.16	\$ 3,544.93	\$ 27,483.54
Total Appropriation		9,194.16	3,544.93	27,483.54
Unencumbered Balance.....				

RECAPITULATION OF PRIOR YEAR CLAIMS

Account Title	Symbol	De- partment of Finance	De- partment of Public Affairs	De- partment of Public Works	De- partment of Public Utilities	Special De- partment	Special Appro- priation	Totals
Supplies—								
Motor Vehicle.....	B		76.80					76.80
Medical and Surgical.....	6				212.00			212.00
General Plant.....	9	639.00						639.00
Material—								
General Plant.....	C	288.52						288.52
Equipment—								
Motor Vehicles and Equipment.....	D		1,310.06					1,310.06
Repairs—								
General.....	E		6,070.87	87.10				6,157.97
Light, Heat and Power.	E4	177.80			3,197.55			3,375.35
Lighting Streets.....	A	49.00				485.75		534.75
Music.....								
Planning Commission.....								
Annual Audit Financial Books.....								
Expense Accounting, Oregon Humane Society.....								
Electrical Examiners Expense.....								
Oregon Humane Society.....								
Printing Annual Report.....								
Total Expenditures.....		\$ 1,154.32	\$ 7,457.73	\$ 87.10	\$ 3,409.55	\$ 485.75	\$ 14,889.09	\$ 27,483.54
Total Warrants Drawn.....		\$ 1,154.32	\$ 7,457.73	\$ 87.10	\$ 3,409.55	\$ 485.75	\$ 14,889.09	\$ 27,483.54
Miscellaneous Debits.....								
Miscellaneous Credits (Deduct).....			216.87					216.87
Claims Outstanding.....								
Total Encumbrance.....		\$ 1,154.32	\$ 7,457.73	\$ 87.10	\$ 3,409.55	\$ 485.75	\$ 14,889.09	\$ 27,483.54
Total Appropriation.....		\$ 1,154.32	\$ 7,457.73	\$ 87.10	\$ 3,409.55	\$ 485.75	\$ 14,889.09	\$ 27,483.54
Unencumbered Balances.....								

RECAPITULATION OF GENERAL FUND APPROPRIATIONS FOR YEAR ENDING NOVEMBER 30, 1928

Account Title	Symbol	Department of Public Safety	Department of Finance	Department of Public Affairs	Department of Public Utilities	Department of Public Works	Civil Service Board
Personal Services—							
Salaries.....	A	\$ 907,010.13	\$ 367,258.19	\$ 1,288,865.31	\$ 133,001.94	\$ 504,717.81	\$ 6,295.97
Special Services.....	1	1,426.00	820.50	655.00		10,410.90	
Supplies—	B						
Office.....	1	8,674.79	4,375.23	2,210.69	2,560.57	7,380.74	630.17
Fuel.....	2	3,734.20	4,391.71	7,656.25	872.50	1,110.74	
Forge and Veterinary.....	3	14,930.57	5,513.28				
Food.....	4	98.47	98.47				
Cleaning and Disinfecting.....	5	1,411.92	5,432.89	3,133.18	5,158.99	20.00	
Motor Vehicle.....	6	17,531.01	3,208.76	33,824.57	1,253.83	5.95	
Botanical and Agricultural.....	7		2,896.10	24.15	3,494.80	7,929.77	
Educational and Recreational.....	8		1,216.17				
Medical and Surgical.....	9	6.11	83.33	62.84	4,610.48	29.60	
General Plant.....	10	1,673.62	7,054.71	4,719.11	686.35	5,841.64	
Material—	C						
Highway.....	1		536.03	426.80		18,753.64	
Sewer.....	2		261.04			8,821.17	
Building Plant.....	3	354.57	213.17	3,151.51	104.26	7,411.71	
General Plant.....	D	1,240.10	4,859.74	4,628.92	.60	6,038.28	
Equipment—							
Office.....	1	2,323.80	2,280.16	129.00	311.73	1,616.74	
Household.....	2	577.65	101.50	855.26	566.01		
Trucks.....	3		11.03				
Motorcycles.....	4		90.47				
Motorcycles Vehicles and Equipment.....	5	22,660.64	3,316.26	21,370.65	4,142.53	333.00	
Motor Vehicles and Equipment.....	6		248.53	42.00	142.00	6,260.42	
Educational and Recreational.....	7		458.95	1,458.41	11.46	8.40	
Tools.....	8	41.54	7,743.53	11,339.80	1,057.73	494.19	
General Plant.....	9	194.85				3,280.86	
Contract and Open Order Service—	D						
Construction and Extension.....	1	880.03	750.80		4,022.33		

RECAPITULATION OF GENERAL FUND APPROPRIATIONS FOR YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Symbol	Department of Public Safety	Department of Finance	Department of Public Affairs	Department of Public Utilities	Department of Public Works	Civil Service Board
Repairs—							
General.....	E	1,445.67	9,648.28	16,651.72	1,172.61	121,233.57	3.45
Motor Vehicle.....	2	8,715.62	1,533.96	38,244.40	2,600.00	6,323.35	
Light, Heat and Power	3		2,532.19	1,758.65	246.46	10.38	
Lighting Streets.....	E4		38.00		270,852.58		
Lighting Buildings.....	A				12,904.30		
Heat.....	B	94.47					
Janitorial Service.....	D	499.58	1,576.05	942.00	838.60	3.29	
Transportation—	E5						
Hire of Horses.....	E6			3.50			
Hire of Automobiles.....	A					35.00	
Storage Motor Vehicles.....	B		230.89		3,678.55	6.68	
Shoeing and Boarding of Horses.....	C	182.35		180.80	1,242.00		
Carts.....	D	153.30		1,326.72	17.76	1,421.84	
Other Transportation.....	E	1,464.77				1,011.36	
Communication—	E7						
Telephone.....	A	800.00	28.95	13.75	8.65	8.00	
Telegraph and Messenger.....	B	872.44	54.95	25.00	7.37	20.41	
General Plant Service	E8	95.15	979.72	553.54	10,203.25	4,731.93	
Contingencies	F	6,066.56	532.70	1,066.70		3,463.40	
Fixed Charges and Contributions—	G						
Interest.....	1A		998.64	858.00		3,500.04	150.00
Rent.....	2		6,825.75			236.50	
Insurance.....	4		393.52			4,133.74	
Other Fixed Charges.....	6	10.00	30.00	300.00		2,166.95	
Other Contributions.....	7	5,000.00			2,750.00	3.70	
Purchase of Real Estate	H						
Dental Clinic.....							
Rat Fund.....							
Special Studies.....							
Rotary Trust and Special Appropriations.....							

RECAPITULATION OF GENERAL FUND APPROPRIATIONS FOR YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Symbol	Department of Public Safety	Department of Finance	Department of Public Affairs	Department of Public Utilities	Department of Public Works	Civil Service Board
Music							
Engineering Street Widening.....			2,192.75			15,000.00	
Cut Weeds.....		4,740.84					
Fugitive Fund.....		100.00					
Permanent Traffic and Warning Signs.....		8,081.70					
Maintaining Traffic and Warning Signs.....		6,037.70					
New Traffic Signals.....		25,747.78					
Police Reserves.....		600.00					
Injury to Officers.....		340.87					
Police School Activities.....		151.00					
Rose Festival.....		45.00					
Painting and Tinting.....			1,366.00				
New Linoleum.....			1,306.30				
Soldier's Cemetery.....			999.92				
Rose Medals.....			22.10				
Annual Audit Financial Books.....							
Expense Accounting, Oregon Humane So.....							
Electrical Examiner's Expense.....							
Oregon Humane Society.....							
Printing Annual Report.....							
Total Expenditures.....		\$1,056,705.20	\$ 454,806.33	\$1,446,475.21	\$ 468,651.66	\$ 747,191.30	\$ 7,070.59
Total Warrants Drawn.....		\$1,189,966.88	\$ 450,111.86	\$1,584,828.27	\$ 458,071.93	\$ 661,286.29	\$ 6,590.42
Miscellaneous Debits.....		26,141.96	30,888.76	82,811.10	11,068.93	331,250.53	580.17
Miscellaneous Credits (Deduct).....		150,403.64	35,194.29	221,164.16	489.20	245,345.52	100.00
Claims Outstanding.....		326.00	428.83	475.00		6.50	
Total Encumbrance.....		\$1,057,031.20	\$ 455,235.16	\$1,446,950.21	\$ 468,651.66	\$ 747,197.80	\$ 7,079.59
Total Appropriation.....		1,062,966.61	455,179.59	1,446,846.12	468,651.66	759,558.30	7,079.59
Unencumbered Balance.....		\$ 5,935.41	\$ *55.57	\$ *104.09		\$ 12,360.50	

*Deficit.

RECAPITULATION OF GENERAL FUND APPROPRIATIONS FOR YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Symbol	Department of City Auditing	City Planning Commission	Rotary Trust and Special Appropriations	Total Claims Paid 1928	Total Prior Year Claims Paid	Grand Total
Personal Services—							
Salaries.....	A	\$ 79,883.95	\$ 5,825.81		\$3,292,859.11		\$ 3,292,859.11
Special Services.....	1				13,312.40		13,312.40
Supplies—							
Office.....	B	5,825.54	390.25		32,047.98	\$ 485.75	32,533.73
Fuel.....	1				17,765.40		17,765.40
Forge and Veterinary.....	2				5,513.28		5,513.28
Food.....	3				20,208.03		20,208.03
Cleaning and Disinfecting.....	4				11,245.35		11,245.35
Motor Vehicle.....	5	7.58	157.12		66,226.03	76.80	66,302.83
Botanical and Agricultural.....	6				2,920.25		2,920.25
Educational and Recreational.....	7				1,216.17		1,216.17
Medical and Surgical.....	8				4,822.36	212.00	5,034.36
General Plant.....	9		66.32		20,043.75	639.00	20,682.75
Material—							
Highway.....	10				19,716.47		19,716.47
Sewer.....	1				9,082.21		9,082.21
Building.....	2				4,565.22		4,565.22
General Plant.....	3		7.34		16,763.98	288.52	17,052.50
Equipment—							
Office.....	D	886.91	332.80		7,881.14		7,881.14
Household.....	1				2,120.42		2,120.42
Livestock.....	2				11.03		11.03
Motorless Vehicles and Equipment.....	3				432.47		432.47
Motor Vehicles and Equipment.....	4				57,771.61	1,310.06	59,081.67
Educational and Recreational.....	5		51.11		288.73		288.73
Tools.....	6				2,492.55		2,492.55
General Plant.....	7				23,591.77		23,591.77
Contract and Open Order Service—							
Construction and Extension.....	8	15.00			5,003.16		5,003.16
	E						
	1						

RECAPITULATION OF GENERAL FUND APPROPRIATIONS FOR YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Symbol	Department of City Auditing	City Planning Commission	Rotary Trust and Special Appropriations	Total Claims Paid 1928	Total Prior Year Claims Paid	Grand Total
Repairs—							
General.....	E				150,231.29		150,231.29
Motor Vehicle.....	2	\$ 75.99	\$ 107.61		57,534.94	\$ 6,157.97	\$ 156,389.26
Light, Heat and Power.	3				4,547.66		4,547.66
Lighting Streets.....	E4				270,891.58	177.80	271,069.38
Lighting Buildings.....	A				12,904.30	3,197.55	16,101.85
Heat.....	B				94.47		94.47
Janitorial Service.	D				3,859.52		3,859.52
Transportation—	E5				35.00		35.00
Hire of Horses.....	E6				3,688.73		3,688.73
Hire of Automobiles.....	A				65.50		65.50
Storage Motor Vehicles.....	B				230.89		230.89
Shoeing and Boarding of Horses.....	C				3,189.38		3,189.38
Carfare.....	D				4,725.50		4,725.50
Other Transportation.	E		1.29		859.64		859.64
Communication—	E7				980.17		980.17
Telephone.....	A				16,998.59		16,998.59
Telegraph and Messenger.....	B		15.00		11,129.36		11,129.36
General Plant Service	E8	490.00			3,500.04		3,500.04
Contingencies	F				9,068.89		9,068.89
Fixed Charges and Contributions—	F				4,610.46		4,610.46
Interest.....	G				2,206.95		2,206.95
Rent.....	1				303.70		303.70
Insurance.....	2				5,000.00		5,000.00
Other Fixed Charges.....	3				2,750.00		2,750.00
Other Contributions.....	4				201.43		201.43
Purchase of Real Estate	5				3,420.23		3,420.23
Dental Clinic	6						
Rat Fund	7						
Special Studies	H		3,420.23				
Rotary Trust and Special Appropriations.				\$4,245,968.35	4,245,968.35		4,245,968.35

RECAPITULATION OF GENERAL FUND APPROPRIATIONS FOR YEAR ENDING NOVEMBER 30, 1928—Continued

Account Title	Symbol	Department of City Auditing	City Planning Commission	Rotary Trust and Special Appropriations	Total Claims Paid 1928	Total Prior Year Claims Paid	Grand Total
Music.....					2,192.75	49.00	2,241.75
Engineering Street Widening					15,000.00		15,000.00
Cut Weeds.....					4,749.84		4,749.84
Fugitive Fund.....					600.00		600.00
Permanent Traffic and Warning Signs.....					8,081.70		8,081.70
Maintaining Traffic and Warning Signs.....					6,037.79		6,037.79
New Traffic Signals.....					25,747.78		25,747.78
Police Reserves.....					600.00		600.00
Injury to Officers.....					349.87		349.87
Police School Activities.....					151.00		151.00
Rose Festival.....					45.00		45.00
Painting and Tinting.....					1,366.00		1,366.00
New Linoleum.....					1,396.30		1,396.30
Soldier's Cemetery.....					999.92		999.92
Rose Medals.....					22.10		22.10
Annual Audit Financial Books.....					1,690.00		1,690.00
Expense Accounting, Oregon Humane So.....					400.00		400.00
Electrical Examiner's Expense.....					60.00		60.00
Oregon Humane Society.....					9,194.16		9,194.16
Printing Annual Report.....					3,544.93		3,544.93
Total Expenditures.....		\$ 87,114.97	\$ 10,374.88	\$ 1,245,968.35	\$ 8,524,367.49	\$ 27,483.54	\$ 8,551,851.03
Total Warrants Drawn.....		\$ 82,550.80	\$ 9,620.32	\$ 4,465,694.24	\$ 8,917,730.01	\$ 27,286.67	\$ 8,944,996.68
Miscellaneous Debits.....		5,675.97	759.36	61,130.63	550,307.61	216.87	550,524.48
Miscellaneous Credits (Deduct).....		1,111.80	4.80	280,856.72	943,670.13		943,670.13
Claims Outstanding.....			477.15	500,924.16	502,637.64		502,637.64
Total Encumbrance.....		\$ 87,114.97	\$ 10,852.03	\$ 4,746,892.51	\$ 9,027,005.13	\$ 27,483.54	\$ 9,054,488.67
Total Appropriation.....		\$ 87,114.97	\$ 10,852.03	\$ 4,782,328.87	\$ 9,080,577.74	\$ 27,483.54	\$ 9,108,061.28
Unencumbered Balance.....				\$ 35,436.36			\$ 35,436.36

BONDED INDEBTEDNESS INTEREST FUND

Balance December 1, 1927.....		\$ 237,015.59
Receipts—		
Delinquent taxes.....	\$ 12,954.76	
1927 taxes.....	47,179.81	
1928 taxes.....	429,879.68	
1929 taxes.....	2,101.83	
Interest on taxes.....	2,312.96	
Accrued interest on bonds.....	1,215.15	
		495,644.19
		<u>\$ 732,659.78</u>
Disbursements—		
Warrants paid and returned.....	167.61	
Interest coupons paid.....	494,405.00	
		494,572.61
Balance November 30, 1928.....		238,087.17
		<u>\$ 732,659.78</u>

APPROPRIATION PAYMENT OF INTEREST

Appropriation 1928.....	\$ 502,063.50
Claims Audited and Interest Paid—	
Interest coupons paid.....	\$ 494,405.00
Unexpended balance.....	7,658.50
	<u>\$ 502,063.50</u>

APPROPRIATION EXCHANGE AND COMMISSION, NEW YORK

Appropriation 1928.....	\$ 350.00
Claims Audited and Warrants Drawn—	
Exchange and commission.....	\$ 165.37
Unexpended balance.....	184.63
	<u>\$ 350.00</u>

SINKING FUND

Balance December 1, 1927.....		\$ 124,183.47
Receipts—		
Delinquent taxes	\$ 7,597.26	
1927 taxes	30,258.91	
1928 taxes	326,578.65	
1929 taxes	1,596.94	
Interest on taxes	1,468.48	
Interest on daily balances	657.65	
Interest on warrants	233.42	
Interest on bonds	65,082.76	
Bonds cashed	19,200.00	
Bonds sold	300,000.00	
Premium on bonds.....	5,546.28	758,220.35
Transfers—		
Improvement Bond Sinking Fund, Linn- ton	810.00	
Improvement Bond Interest Fund.....	297.54	1,107.54
		<u>\$ 883,511.36</u>
Disbursements—		
Warrants paid and returned.....	290,362.04	
Bonds redeemed	142,500.00	432,862.04
Balance November 30, 1928.....		450,649.32
		<u>\$ 883,511.36</u>

APPROPRIATION PURCHASE OF SECURITIES

Appropriation 1928		\$ 400,000.00
Claims Audited and Warrants Drawn—		
Securities purchased		290,362.04
Unexpended balance		109,637.96
		<u>\$ 400,000.00</u>

APPROPRIATION REDEMPTION OF BONDS

Appropriation 1928		\$ 142,500.00
Bonds Audited and Redeemed—		
Bonds redeemed—		
Fire Department construction bonds.....	\$ 9,000.00	
Reconstruction bonds	28,000.00	
Bridge access bonds.....	29,000.00	
Refunding bonds	56,500.00	
Playground bonds	20,000.00	\$ 142,500.00

PLAYGROUNDS AND PARKS FUND

Balance December 1, 1927.....		\$ 24,838.77
Receipts—		
Delinquent taxes	\$ 2,955.88	
1927 taxes	9,082.51	
1928 taxes	71,701.49	
1929 taxes	425.55	
Interest on taxes	509.40	
Interest on daily balances	378.59	
Sale of houses	40.00	
Sale of sacks	463.80	
Planting shrubbery	2,176.37	
Use of tractor.....	68.00	
Damages extension E. 47th street.....	339.00	88,090.59
Transfers—		
General Fund	11,094.08	
Eastmoreland Golf Fund.....	504.06	11,598.14
		<u>\$ 124,527.50</u>
Disbursements—		
Warrants paid and returned.....	96,343.59	
Transferred to General Fund.....	6,855.47	103,199.06
Balance November 30, 1928.....		21,328.44
		<u>\$ 124,527.50</u>

APPROPRIATION PURCHASE OF LAND, EQUIPMENT AND IMPROVEMENT OF PLAYGROUNDS AND PARKS

Account Title	Symbol	All Parks	Belmont	Buckman	Columbia	Creston	Duniway
Personal Services—							
Salaries.....	A	\$ 1,739.36	\$ 75.87	\$ 1,401.41	\$ 614.09	\$ 1,268.12	\$ 145.97
Special Services.....	2			710.42	1,377.78		
Supplies—							
Motor Vehicles.....	B	25.26	11.00	.80			21.27
Botanical and Agricultural.....	6		9.90			142.20	
General Plant.....	7	1.10		1.12	19.61		
Material—							
Sewer.....	10					77.94	
Building.....	C			228.85		53.12	
General Plant.....	2	**333.64		266.10	163.68	1,388.15	.48
Tools.....	3						
Equipment—							
General Plant.....	4	4.51		14.00		189.00	50.00
Contract and Open Order Service—							
Construction and Extension.....	7	3,230.75				249.25	
Repairs—							
General.....	E			11,374.74	23,331.85		
Transportation—							
Other Transportation.....	E2	10.89					
Total Expenditures.....	E6	\$ 4,667.34	\$ 107.66	\$ 13,997.45	\$ 25,507.01	\$ 3,367.78	\$ 217.72
	F						

**Credit.

APPROPRIATION PURCHASE OF LAND, EQUIPMENT AND IMPROVEMENT OF PLAYGROUNDS AND PARKS—Continued

Account Title	Symbol	Fulton	Gammons	Irving	Lair Hill	Lents	Macleay
Personal Services—							
Salaries.....	A	\$ 969.35	\$ 744.71	\$ 632.66	\$ 1,660.46	\$ 419.47	\$ 1,338.13
Special Services.....	1		12.00				46.50
Supplies—							
Motor Vehicle.....	2			.80	84.05	.80	
Botanical and Agricultural.....	6			25.32	1.58		
General Plant.....	7		67.32		73.95	2.45	
Material—							
Sewer.....	10	1.26		1.88	6.25		.32
Building.....	C						
General Plant.....	2		13.66	301.27	1,403.34	234.57	1,206.31
Tools.....	3						
Equipment—							
General Plant.....	4	1.16					
Contract and Open Order Service—							
Construction and Extension.....	7				14.00		28.00
Repairs—							
General.....	8				149.48	50.50	38.30
Transportation—							
Other Transportation.....	1			26.57	26.58		
Total Expenditures.....	E6	\$ 971.77	\$ 837.66	\$ 982.25	\$ 3,419.69	\$ 707.79	\$ 2,057.56
	F			3.75			

** Credit.

APPROPRIATION PURCHASE OF LAND, EQUIPMENT AND IMPROVEMENT OF PLAYGROUNDS AND PARKS—Continued

Account Title	Symbol	Mt. Scott	Mt. Tabor	Overlook	Patton	Pier	Powell
Personal Services—	A						
Salaries.....	1	\$ 442.84	\$ 2,398.62	\$ 63.47	3.00	\$ 7,295.31	\$ 1,141.65
Special Services.....	2		204.94				13.50
Supplies—	B						
Forage and Veterinary.....	3		7.44			2.92	
Motor Vehicle.....	6					.13	
Botanical and Agricultural.....	7		10.45			2.37	2.67
General Plant.....	10	1.23					
Material—	C						
Sewer.....	2		22.82			811.48	
Building.....	3					3,459.91	
General Plant.....	4	151.49	2,128.67				52.54
Equipment—	D						
Tools.....	7					3.00	
General Plant.....	8	.60	1.85				
Contract and Open Order Service—	E						
Construction and Extension.....	1	185.86	3,330.68	301.00			50.50
Repairs—	E						
Motor Vehicle.....	3		1,815.27			70.00	
Purchase of Real Estate.....	H						
Total Expenditures.....		\$ 782.02	\$ 9,820.74	\$ 364.47	\$ 3.00	\$ 11,645.12	\$ 1,260.86

APPROPRIATION PURCHASE OF LAND, EQUIPMENT AND IMPROVEMENT OF PLAYGROUNDS AND PARKS—Continued

Account Title	Symbol	Rose City	Sellwood	Terwilliger	U. S. Grant	Washington	Woodstock
Personal Services—	A						
Salaries.....	1	\$ 1,611.37	\$ 1,145.88	\$ 55.12	\$ 6.61	\$ 2,353.39	
Special Services.....	2					99.00	
Supplies—	B						
Forage and Veterinary.....	3						
Motor Vehicle.....	6	7.12	50.40				
Botanical and Agricultural.....	7	5.59					
General Plant.....	10	9.12	4.17			11.24	
Material—	C						
Sewer.....	2		5.50			93.80	
Building.....	3						
General Plant.....	4		652.08	53.08	20.87	685.31	
Equipment—	D						
Tools.....	7						
General Plant.....	8	1,708.64	12.41		120.00	17.25	
Contract and Open Order Service—	E						
Construction and Extension.....	1					7,621.28	27.55
Repairs—	E						
Motor Vehicle.....	3						
Purchase of Real Estate.....	H						
Total Expenditures.....		\$ 3,341.74	\$ 1,870.44	\$ 108.20	\$ 159.48	\$ 10,841.13	\$ 27.55

APPROPRIATION PURCHASE OF LAND EQUIPMENT AND IMPROVEMENT OF PLAYGROUNDS AND PARKS

Account Title	Symbol	Totals
Personal Services	A	
Salaries	1	\$ 27,523.76
Special services	2	2,467.14
Supplies	B	
Forage and veterinary	3	7.12
Motor vehicle	6	210.33
Botanical and agricultural	7	11.61
General plant	10	375.90
Material	C	
Sewer	2	1,248.52
Building	3	3,179.39
General plant	4	8,627.57
Equipment	D	
Tools	7	8.67
General plant	8	5,392.50
Contract and Open Order Service	E	
Construction and extension	1	46,711.00
Repairs	E	
General	2	123.90
Motor vehicle	3	70.00
Transportation	E6	
Other transportation	F	3.75
Purchase of real estate	H	
		1,815.27
Total expenditure		\$ 97,776.43
Total warrants drawn		95,474.09
Miscellaneous debits		6,608.65
Miscellaneous credits (deduct)		4,306.31
Claims outstanding		6,819.20
Total encumbrance		\$ 104,595.63
Total appropriation		114,971.07
Unencumbered balance		\$ 10,375.44

SPECIAL BRIDGE FUND

Balance December 1, 1927		\$ 124,411.34
Receipts—		
Delinquent taxes	\$ 638.16	
1927 taxes	14,452.04	
1928 taxes	54,007.09	
1929 taxes	320.26	
Interest on taxes	502.17	
Interest on daily balances	1,917.31	
		71,837.03
		\$ 196,248.37
Disbursements—		
Warrants paid and returned		93,511.32
Transfers—		
General Fund	34,432.26	
Street Improvement Fund	46,304.00	
		80,736.26
Balance November 30, 1928		22,000.79
		\$ 196,248.37

APPROPRIATION COST OF FILLS AND CONSTRUCTION OF BRIDGES

Account Title	Symbol	Interstate Avenue Fill	9th Street Viaduct	East 7th Street Viaduct	Terwilliger Boulevard Bridge	Vancouver Avenue Viaduct	Wood Street Fill
Personal Services—	A						
Salaries	1	2,636.11	11,021.53	523.43	17.93	2,134.25	49.91
Special Services	2	275.00					
Supplies—	B						
Office	1	58.04	989.24	9.39		167.17	1.48
Motor Vehicle	6	4.70	61.76	.65		7.43	.33
General Plant	10	3.67	59.30	1.67	2.97	3.95	.14
Material—	C						
Highway	1				130.00		
Contract and Open Order Service—	E						
Construction and Extension	1	20,100.73	35,493.00		20,280.01		1,628.00
Repairs—	E						
General	2	3.82					.12
Motor Vehicle	3	6.08					.47
Transportation—	E6						
Hire of Automobiles	B	10.87					
Carfare	E7						.22
Communication—	B						
Telegraph and Messenger	B						
General Plant Service	E8						
Contingencies	F	100.00					
Purchase of Real Estate	H	1,500.00					
Total Expenditures		\$ 24,699.62	\$ 47,790.58	\$ 538.59	\$ 32,250.30	\$ 2,865.04	\$ 2,389.62

APPROPRIATION COST OF FILLS AND CONSTRUCTION OF BRIDGES—Continued

Account Title	Sym- bol	East 16th Street Viaduct	Burlingame Viaduct	33rd Street Columbia Boulevard Viaduct	3rd Street and Arthur Fill	First Street Fill	Front Street Bridge	Totals
Personal Services—								
Salaries	A	706.67	1,680.37	2,468.08	40.44	53.04	1,281.24	22,622.00
Special Services	1							275.00
Supplies—								
Office	B							1,382.91
Motor Vehicle	6	14.00	82.68	67.83	.55	1.54	41.91	142.10
General Plant	10	1.05	13.80	7.40	.02	.08	63.22	143.37
Material—								
Highway	C	.17	4.54	5.40	.01	.03		951.68
Contract & Open Order Service—								
Construction and Extension	E						821.68	86,501.74
Repairs	1							222.44
General	2	.36	3.36	4.78	.06	.03	182.20	187.36
Motor Vehicle	3	1.48	19.51	7.96	.05	.11	29.44	
Transportation								
Tire of Automobiles	E6							7.50
Carrage	E	2.43	11.77	9.54	.18	.24		97.95
Communication								
Telegraph and Messenger	E7							5.60
General Plant Service								
Contingencies	E8			.70	300.00		30.75	3,822.20
Purchase of Real Estate	F		200.00				7,500.00	7,600.00
	H							1,700.00
Total Expenditures		\$ 727.15	\$ 2,025.03	\$ 2,571.69	\$ 341.31	\$ 62.57	\$ 9,950.44	\$ 125,711.94
Total Warrants Drawn								\$ 91,273.58
Miscellaneous Debits								34,438.36
Miscellaneous Credits (Deduct)								
Claims Outstanding								10,262.00
Total Encumbrance								\$ 135,973.94
Total Appropriation								\$ 230,970.18
Unencumbered Balance								\$ 94,096.24

PUBLIC AUDITORIUM FUND

Balance December 1, 1927		\$ 3,299.64
Receipts—		
Interest on daily balances	\$ 26.29	
Rents	24,166.44	
Payments by General Fund	7,500.00	
Phone	8.80	
Refund account material returned	16.20	
Towels	2.70	
Refund cash Rotary Account	600.00	32,320.43
Transfers—		
Municipal Paving Rotary Fund		4,000.00
		\$ 39,620.07
Disbursements—		
Warrants paid and returned		36,281.75
Transferred to General Fund		753.20
Balance November 30, 1928		2,585.12
		\$ 39,620.07

OFFICE OF THE CITY AUDITOR

APPROPRIATION EXPENSE PUBLIC AUDITORIUM

Account Title	Symbol	Executive and Clerical	Show Expense	Buildings	Total	Prior Year	Total
Personal Services—	A	\$ 7,500.00	\$ 6,521.21	\$ 13,271.37	\$ 27,292.58	\$ 1,482.91	\$ 28,775.49
Salaries	1	193.56	57.45		251.01		251.01
Supplies—	B				1,619.79		1,619.79
Office	1				296.33		296.33
Cleaning and Disinfecting	2				274.00		274.00
Educational and Recreational	5				779.59		779.59
Medical and Surgical	8				556.08		556.08
Material—	C						
General Plant	4				2.50		2.50
Equipment—	D						
General Plant	8				33.80		33.80
Repairs—	E				2,328.39		2,328.39
General	2				363.50		363.50
Light, Heat and Power	E4				162.48		162.48
Janitorial Service	E5				496.50		496.50
Transportation	E6				7.54		7.54
Other Transportation	E6				41.25		41.25
Communication—	E7				304.73		304.73
Telephone	A		162.48				
Telegraph and Messenger	B		.50				
General Plant Service—	E8						
Fixed Charges and Contributions	G						
Insurance	4		28.06		332.79		332.79
Advertising	5		119.99		119.99		119.99
Total Expenditures		\$ 7,693.56	\$ 7,163.69	\$ 20,101.37	\$ 34,958.62	\$ 1,482.91	\$ 36,441.53
Total Warrants Drawn							
Miscellaneous Debits							
Miscellaneous Credits (Deduct)							
Claims Outstanding							
Total Encumbrance							
Total Appropriation							
Unencumbered Balance							

OFFICE OF THE CITY AUDITOR

FIRE DEPARTMENT CONSTRUCTION FUND

Balance December 1, 1927.....	\$	7,404.88
Receipts—		
Interest on daily balances.....		115.76
	\$	7,520.64
Disbursements—		
Warrants paid and returned.....		3,034.50
Transfers—		
Fire Department Construction Fund No. 2.....		4,486.14
	\$	7,520.64

APPROPRIATION CONSTRUCTION OF FIRE HOUSES NO. 1

Account Title	Symbol	
Contract and Open Order Service.....	E	
Construction and extension.....	1	\$ 7,520.64
Total expenditures		\$ 7,520.64
Total warrants drawn.....		3,034.50
Miscellaneous debits		4,486.14
Miscellaneous credits (deduct).....		
Claims outstanding		
Total encumbrance		\$ 7,520.64
Total appropriation		7,520.64
Unencumbered balance		

FIRE DEPARTMENT CONSTRUCTION FUND NO. 2

Balance December 1, 1927.....		\$ 139,426.40
Receipts—		
Interest on daily balances.....	\$	2,361.12
Sale of bonds.....		224,000.00
Premium on bonds.....		5,129.60
Sale of property.....		10.00
		231,500.72
Transfers—		
General Fund	60,270.44	
Fire Department Construction Fund No. 1	4,486.14	64,756.58
		\$ 435,683.70
Disbursements—		
Warrants paid and returned.....		325,547.55
Transferred to General Fund.....		24,460.36
Balance November 30, 1928.....		85,675.79
	\$	435,683.70

APPROPRIATION CONSTRUCTION OF FIRE HOUSES NO. 2

Account Title	Symbol	
Personal Services	A	
Salaries	1	\$ 6,984.50
Special services	2	5,676.82
Supplies	B	
Office	1	362.27
Motor vehicle	6	.83
General plant	10	23.96
Material	C	
Building	3	191.96
General plant	4	29,243.01
Equipment	D	
Household	2	1,342.74
Motor vehicles and equipment	5	92,285.10
General plant	8	29,327.76
Contract and Open Order Service	E	
Construction and extension	1	215,168.40
Repairs	E	
General	2	2,085.56
Motor vehicle	3	942.75
Fixed Charges and Contributions	G	
Insurance	4	213.97
Advertising	5	185.00
Purchase of Real Estate	H	
		3,621.80
Total expenditures		\$ 387,656.43
Total warrants drawn		\$ 367,952.65
Miscellaneous debits		24,460.26
Miscellaneous credits (deduct)		4,756.48
Claims outstanding		26,511.98
Total encumbrance		\$ 414,168.41
Total appropriation		427,641.22
Unencumbered balance		\$ 13,472.81

PARK AND BOULEVARD CONSTRUCTION FUND

Balance December 1, 1927		\$ 1,926.43
Receipts—		
Interest on daily balances	\$ 43.37	
Damage account street extension	405.00	448.37
		\$ 2,374.80
Disbursements—		
Warrants paid and returned		292.20
Balance November 30, 1928		2,082.60
		\$ 2,374.80

APPROPRIATION CONSTRUCTION AND IMPROVEMENT OF PARKS AND BOULEVARDS

Appropriation brought forward	\$ 1,628.24
Unexpended balance	\$ 1,628.24

WATER FUND

Balance December 1, 1927		\$ 500,076.80
Receipts—		
Collection of water rates	\$ 1,575,527.31	
Interest on daily balances	10,170.98	
Sale of junk	952.80	
Damage to auto	2.40	
Refunds	19.00	
Damages account extension of Powell St. ...	200.00	
O. N. G. encampment	18.00	
Interest on bonds	1,333.33	
Interest on Palatine Hill property	150.00	
Sale of real estate	1,850.20	
Sale of sacks	43.40	1,590,267.42
Transfers—		
General Fund	1,174.91	
Municipal Paving Rotary Fund	1,999.84	840,772.52
Water Construction Fund	837,597.77	
		\$ 2,931,116.74
Disbursements—		
Warrants paid and returned	1,286,741.52	2,005,846.52
Interest coupons paid	719,105.00	
Transfers—		
General Fund	29,654.45	
Municipal Paving Rotary Fund	12,569.75	645,126.02
Water Construction Fund	602,901.82	
		280,144.20
Balance November 30, 1928		\$ 2,931,116.74

APPROPRIATION EXPENSE BUREAU OF WATER WORKS

Account Title	Symbol	
Personal Services	A	
Salaries	1	\$ 539,887.22
Special services	2	11,646.48
Supplies	B	
Office	1	11,251.26
Fuel	2	3,859.42
Food	4	199.53
Cleaning and disinfecting	5	417.62
Motor vehicle	6	14,974.75
Botanical and agricultural	7	210.81
Medical and surgical	9	.90
General plant	10	4,282.12
Material	C	
Building	3	7,214.34
General plant	4	44,019.45
Equipment	D	
Office	1	39.75
Household	2	47.56
Motor vehicles and equipment	5	460.20
Tools	7	717.98
General plant	8	**1,922.90
Repairs	E	
General	2	18,898.80
Light, Heat and Power	E4	
Lighting buildings	B	797.12
Power	C	14,561.36
Heat	D	137.54
Janitorial Service	E5	87.61
Transportation	E6	
Hire of horses	A	2,165.50
Hire of automobiles	B	428.50
Carfare	E	1,845.00
Communications	E7	
Telephone	A	1,286.31
Telegraph and messenger	B	30.18
General Plant Service	E8	166.20
Contingencies	F	6,582.40
Fixed Charges and Contributions	G	
Interest	1A	719,105.00
Rent	2	59.07
Pensions	3	5,405.00
Insurance	4	2,184.88
Advertising	5	54.25
Other fixed charges	6	3,261.51
Exchange	7	31.00
Refund water rates and deposits		252.94
Sinking Fund for Water Bonds		5,143.70
		279,838.63
Total expenditure		\$ 1,700,111.60
Total warrants drawn		
Miscellaneous debits		1,273,688.09
Miscellaneous credits (deduct)		761,371.20
Claims outstanding		334,947.69
		190.00
Total encumbrance		\$ 1,700,301.60
Total appropriation		1,715,811.60
Unencumbered balance		\$ 15,510.00

**Credit

WATER BOND SINKING FUND

Balance December 1, 1927		\$ 97,133.49
Receipts—		
Interest on daily balances	\$ 801.06	
Interest on bonds	128,699.32	
Bonds cashed	88,759.02	
Payment by Water Fund	279,538.13	498,097.53
		\$ 595,231.02
Disbursements—		
Warrants paid and returned	302,498.42	
Bonds redeemed	3,000.00	305,498.42
Balance November 30, 1928		289,732.60
		\$ 595,231.02

APPROPRIATION PURCHASE OF SECURITIES

Appropriation 1928	\$ 600,000.00
Claims Audited and Warrants Drawn—	
Securities purchased	\$ 302,498.42
Unexpended balance	297,501.58
	\$ 600,000.00

APPROPRIATION REDEMPTION OF WATER BONDS

Appropriation 1928	\$ 3,000.00
Bonds Audited and Redeemed—	
Linnton Water Bonds	\$ 3,000.00

REDEMPTION FUND

Balance December 1, 1927	\$ 5,412.07
Receipts—	
Redemption of property	102,357.17
	\$ 107,769.24
Disbursements—	
Warrants paid and returned	104,871.64
Balance November 30, 1928	2,897.60
	\$ 107,769.24

APPROPRIATION REDEMPTION OF CERTIFICATES

Appropriation 1928		\$ 200,000.00
Claims Audited and Warrants Drawn—		
Certificates redeemed	104,210.36	
Unexpended balance	95,789.64	
		\$ 200,000.00

ASSESSMENT COLLECTION FUND

Balance December 1, 1927.....		\$ 105,740.96
Receipts—		
Sale of property.....	\$ 258,596.30	
Interest on daily balances.....	1,099.35	
Sale of bonds.....	150,000.00	
Warrants cashed	1,023.48	
Interest on warrants.....	98.80	
Refund	9.00	410,826.93
Transfers—		
General Fund	6.10	
Sewer Fund	17.00	
Street Extension Fund.....	61,108.02	61,131.12
		\$ 577,699.01
Disbursements—		
Warrants paid and returned.....		477,200.85
Transfers—		
General Fund	1,387.53	
U. S. Grant Property Sales Fund.....	181.14	
Street Extension Fund.....	61,105.18	62,673.85
Balance November 30, 1928		37,824.31
		\$ 577,699.01

APPROPRIATION PURCHASE OF PROPERTY FOR DELINQUENT ASSESSMENTS

Appropriation 1928		\$ 505,580.00
Claims Audited and Warrants Drawn—		
Personal service	\$ 8,448.48	
Interest on assessments.....	30,000.00	
Purchase of property.....	448,587.64	487,036.12
Miscellaneous debits	1,387.53	
Miscellaneous credits (deduct).....	108.43	1,279.10
Appropriation cancelled		17,264.78
		\$ 505,580.00

MUNICIPAL PAVING IMPROVEMENT FUND

Appropriation Improvement of Streets—	
Appropriation 1928	\$ 200,000.00
Appropriation canceled	200,000.00

WOMEN'S DETENTION HOME FUND

Balance December 1, 1927.....	\$ 1,018.78
Receipts—	
Interest on daily balances.....	19.98
	\$ 1,038.76
Balance November 30, 1928.....	\$ 1,038.76

MUNICIPAL PAVING ROTARY FUND

Balance December 1, 1927.....		\$ 49,452.97
Receipts—		
Interest on daily balances.....	\$ 1,089.26	
Repair and construction of pavement.....	50,694.12	
Warrants cashed	56,490.98	
Interest on warrants.....	1,371.70	
Damage to property.....	3.75	
Refunds—		
Salary	17.76	
Insurance premium	386.20	
Merchandise returned	8.00	
Spur track	4.00	
State gas tax.....	357.64	
Sale of hoist	300.00	
Sale of sand	34.50	
Sale of sacks	35.20	110,793.11
Transfers—		
General Fund	115,234.76	
Water Fund	12,569.75	
Water Construction Fund.....	9,181.16	136,985.67
		\$ 297,231.75
Disbursements—		
Warrants paid and returned.....		186,843.40
Transfers—		
General Fund	48,465.82	
Public Auditorium Fund.....	4,000.00	
Water Fund	1,999.84	54,465.66
Balance November 30, 1928.....		55,922.69
		\$ 297,231.75

APPROPRIATION PAVING ROTARY ACCOUNT

Account Title	Symbol	Disbursements For Year 1928
Personal Services	A	
Salaries	1	\$ 72,723.73
Special services	2	450.00
Supplies	B	
Office	1	948.76
Fuel	2	9,411.30
Motor vehicle	6	5,632.23
General plant	10	3,479.72
Material	C	
Highway	1	99,659.12
Equipment	D	
Office	1	193.25
Motor vehicle and equipment	5	4,310.37
Tools	7	809.40
General plant	8	1,776.78
Contract and Open Order Service	E	
Construction and extension	1	11,266.52
Repairs	E	
General	2	2,028.20
Light, Heat and Power	E4	
Power	C	1,291.38
Transportation	E6	
Hire of horses	A	42.50
Hire of automobiles	B	8,302.85
Carfare	E	51.10
Other transportation	F	625.00
Communication	E7	
Telephone	A	131.69
Fixed Charges and Contributions	G	
Interest	1A	1,183.76
Redemption	1B	12.25
Insurance	4	3,043.95
Other fixed charges	6	24.00
Other contributions	7	44,149.55
Total expenditures		\$ 271,552.41
Total warrants drawn		\$ 217,086.75
Miscellaneous debits		54,465.66
Miscellaneous credits (deduct)		253,852.10
Claims outstanding		
Total encumbrance		17,700.31
Total appropriation		25,590.00
Unencumbered balance		\$ 7,889.69

EASTMORELAND GOLF FUND

Balance December 1, 1927		\$ 12,076.98
Receipts—		
Interest on daily balance	\$ 145.26	
Green fees	42,167.65	
Concessions	900.00	
Mowing links	343.28	
Sale of building	10.00	43,566.19
Transfers—		
General Fund	9,297.88	
West Hills Golf Fund	696.30	
Rose City Golf Fund	2,606.62	12,600.80
		\$ 68,243.97
Disbursements—		
Warrants paid and returned	40,528.20	
Utility certificates redeemed	10,000.00	
Interest paid on certificates	5,310.00	\$ 55,838.20
Transfers—		
General Fund	4,937.65	
Playgrounds and Parks Fund	504.06	
Rose City Golf Fund	4.20	5,445.91
Balance November 30, 1928		6,959.86
		\$ 68,243.97

APPROPRIATION EXPENSE EAST MORELAND GOLF LINKS

Account Title	Symbol	Operation and Maintenance	Golf Links Rotary	Total
Personal Services—	A			
Salaries.....	1	\$ 24,671.05		\$ 24,671.05
Supplies—	B			
Fuel.....	2	269.16		269.16
Forage and Veterinary.....	3	509.73		509.73
Cleaning and Disinfecting.....	5	82.09		82.09
Motor Vehicle.....	6	407.25		407.25
Botanical and Agricultural.....	7	1,405.27		1,405.27
Medical and Surgical.....	9	.98		.98
General Plant.....	10	1,382.86		1,382.86
Material—	C			
Sewer.....	2	**122.16		**122.16
Building.....	3	9.06		9.06
General Plant.....	4	646.03		646.03
Equipment—	D			
Motorless Vehicles and Equipment.....	4	2.00		2.00
Motor Vehicles and Equipment.....	5	22.40		22.40
Tools.....	7	38.25		38.25
General Plant.....	8	825.62		825.62
Repairs—	E			
General.....	2	283.36		283.36
Motor Vehicle.....	3	144.18		144.18
Light, Heat and Power	E4	68.24		68.24
Janitorial Service	E5	11.71		11.71
Transportation—	E6			
Shoeing and Boarding of Horses.....	D	37.50		37.50
Communication—	E7			
Telephone.....	A	76.76		76.76
Contingencies	F	48.75		48.75
Fixed Charges and Contributions—	G			
Interest.....	1A	5,280.00		5,280.00
Redemption of Certificates.....	1B	10,000.00		10,000.00
Rent.....	2	60.00		60.00
Insurance.....	4	119.67		119.67
Other Fixed Charges.....	6	4,369.55		4,369.55
Purchase of Real Estate	H	2,050.00		2,050.00
Ball Account.....		**1,365.97		**1,365.97
Total Expenditures		\$ 51,333.34		\$ 51,333.34
Total Warrants Drawn		\$ 33,615.78	\$ 5,791.79	\$ 39,407.57
Miscellaneous Debits.....		23,349.36	104.58	23,453.94
Miscellaneous Credits (Deduct).....		5,631.80	5,896.37	11,528.17
Claims Outstanding.....				
Total Encumbrance		\$ 51,333.34		\$ 51,333.34
Total Appropriation		51,333.34	\$ 2,071.53	\$ 53,404.87
Unencumbered Balance			\$ 2,071.53	\$ 2,071.53

**Credit.

WEST HILLS GOLF FUND

Balance December 1, 1927.....		\$ 2,060.52
Receipts—		
Interest on daily balances.....	\$ 26.06	
Green fees.....	9,949.27	
Concession.....	40.00	
Sale of rock.....	228.00	10,243.33
Transfer from General Fund.....		242.72
		\$ 12,546.57
Disbursements—		
Warrants paid and returned.....		\$ 8,262.33
Transfers—		
General Fund.....	2,002.99	
Eastmoreland Golf Fund.....	696.30	2,699.29
Balance November 30, 1928.....		1,584.95
		\$ 12,546.57

APPROPRIATION EXPENSE WEST HILLS GOLF LINKS

Account Title	Symbol	
Personal Services	A	
Salaries	1	\$ 8,370.68
Supplies	B	
Office	1	.98
Forage and veterinary	3	152.61
Food	4	254.08
Cleaning and disinfecting	5	14.61
Motor vehicle	6	173.06
Botanical and agricultural	7	130.82
General plant	10	231.67
Material	C	
Highway	1	268.00
General plant	4	108.28
Equipment	D	
Motorless vehicles and equipment	4	1.78
Tools	7	13.60
General plant	8	87.33
Contract and Open Order Service	E	
Construction and extension	1	150.00
Repairs	E	
General	2	102.69
Motor vehicle	3	139.43
Light, Heat and Power	E4	30.26
Transportation	E6	
Shoeing and boarding of horses	D	5.16
Communication	E7	
Telephone	A	54.15
Fixed Charges and Contributions	G	
Insurance	4	7.16
Ball account		**231.57
Total expenditure		\$ 10,064.78
Total warrants drawn		8,549.53
Miscellaneous debits		2,699.29
Miscellaneous credits (deduct)		1,184.04
Total encumbrance		\$ 10,064.78
Total appropriation		10,064.78
Unencumbered balance		

** Credit

ROSE CITY GOLF FUND

Balance December 1, 1927		\$ 11,404.64
Receipts—		
Interest on daily balances	\$ 147.49	
Green fees	42,798.66	
Concession	300.00	43,246.15
Transfers—		
General Fund	1,323.33	
Eastmoreland Golf Fund	4.20	1,327.53
		\$ 55,978.32
Disbursements—		
Warrants paid and returned	37,760.66	
Utility certificates redeemed	1,000.00	
Interest paid on certificates	4,200.00	\$ 42,960.66
Transfers—		
General Fund	6,696.68	
Eastmoreland Golf Fund	2,606.62	9,303.30
Balance November 30, 1928		3,714.36
		\$ 55,978.32

APPROPRIATION EXPENSE ROSE CITY GOLF LINKS

Account Title	Symbol	Operation and Maintenance	Rose City Ex-tension	Totals
Personal Services—	A			
Salaries.....	1	\$ 25,412.50	\$ 3,757.76	\$ 29,170.26
Special Services.....	2		572.00	572.00
Supplies—	B			
Fuel.....	2	7.50		7.50
Forage and Veterinary.....	3	476.83	86.96	563.79
Food.....	4	93.76		93.76
Cleaning and Disinfecting.....	5	59.73		59.73
Motor Vehicle.....	6	274.21	66.55	340.76
Botanical and Agricultural.....	7	2,124.04	125.00	2,249.04
Medical and Surgical.....	9	1.79		1.79
General Plant.....	10	981.89	4.10	985.99
Material—	C			
Sewer.....	2	35.76	133.36	169.12
Building.....	3		803.89	803.89
General Plant.....	4	503.58	492.40	995.98
Equipment—	D			
Motorless Vehicles and Equipment.....	4	2.55	.52	3.07
Tools.....	7	59.22		59.22
General Plant.....	8	2,384.48	12.14	2,396.62
Contract and Open Order Service—	E			
Construction and Extension.....	1		788.45	788.45
Repairs—	E			
General.....	2	360.67	78.12	438.79
Motor Vehicle.....	3	146.03		146.03
Light, Heat and Power	E4	62.72		62.72
Transportation	E6			
Shoeing and Boarding of Horses.....	D	12.14	1.33	13.47
Communication	E7			
Telephone.....	A	83.71		83.71
Fixed Charges and Contributions—	G			
Interest.....	1A		4,200.00	4,200.00
Redemption of Certificates.....	1B		1,000.00	1,000.00
Insurance.....	4	7.17		7.17
Other Fixed Charges.....	6	2,416.56		2,416.56
Purchase of Real Estate	H		312.00	312.00
Ball Account.....		**1,138.90		**1,138.90
Total Expenditure.....		\$ 34,367.94	\$ 12,434.58	\$ 46,802.52
Total Warrants Drawn.....				\$ 37,593.34
Miscellaneous Debits.....				14,503.30
Miscellaneous Credits (Deduct).....				5,294.12
Claims Outstanding.....				
Total Encumbrance.....				\$ 46,802.52
Total Appropriation.....				46,802.52
Unencumbered Balance.....				

**Credit.

AUTO CAMP FUND

Balance December 1, 1927.....		\$ 4,251.32
Receipts—		
Interest on daily balances.....	\$ 73.65	
Dividend.....	2.00	75.65
		\$ 4,326.97
Disbursements—		
Warrants paid and returned.....		\$ 907.03
Transferred to General Fund.....		748.18
Balance November 30, 1928.....		2,671.76
		\$ 4,326.97

APPROPRIATION EXPENSE AUTO CAMP

Account Title	Symbol	
Personal Services	A	
Salaries.....	1	\$ 543.22
Special services.....	2	168.00
Supplies	B	
General plant.....	10	20.66
Material	C	
Sewer.....	2	.60
Building.....	3	1.11
General plant.....	4	236.07
Equipment	D	
General plant.....	8	112.00
Contract and Open Order Service	E	
Construction and extension.....	1	228.64
Repairs	E	
General.....	2	635.64
Total expenditure.....		\$ 1,945.94
Total warrants drawn.....		\$ 1,197.76
Miscellaneous debits.....		748.18
Miscellaneous credits (deduct).....		
Claims outstanding.....		
Total encumbrance.....		\$ 1,945.94
Total appropriation.....		2,627.48
Unencumbered balance.....		\$ 681.54

GARBAGE CREMATORY FUND

Balance December 1, 1927.....		\$ 115,864.89
Receipts—		
Interest on daily balances.....		542.63
Transferred to General Fund.....		5.30
		<u>\$ 116,412.82</u>
Disbursements—		
Warrants paid and returned.....	\$	105,777.13
Transferred to General Fund.....		272.29
Balance November 30, 1928.....		10,363.40
	\$	<u>116,412.82</u>

APPROPRIATION CONSTRUCTION OF CREMATORY

Appropriation forwarded		\$ 112,479.17
Claims Audited and Warrants Drawn—		
Construction of Crematory.....	\$	102,954.33
Miscellaneous debits		272.29
Miscellaneous credits (deduct).....		5.30
		103,221.32
Unexpended balance		9,257.85
	\$	<u>112,479.17</u>

U. S. GRANT PROPERTY SALES FUND

Balance December 1, 1927.....		\$ 6,735.25
Receipts—		
Interest on daily balances.....	\$	134.71
Sale of property.....		1,560.52
Transferred to Assessment Collection Fund.....		181.14
		<u>\$ 8,611.62</u>
Disbursements—		
Warrants paid and returned.....	\$	850.19
Transferred to General Fund.....		17.82
Balance November 30, 1928.....		7,743.61
	\$	<u>8,611.62</u>

APPROPRIATION EXPENSE SALE OF PROPERTY

Appropriation 1928		\$ 4,000.00
Claims Audited and Warrants Drawn—		
Commissions and title insurance.....	\$	965.19
Miscellaneous debits		18.72
		983.01
Unexpended balance		3,016.99
	\$	<u>4,000.00</u>

WATER CONSTRUCTION FUND

Balance December 1, 1927.....		\$ 683,468.73
Receipts—		
Interest on daily balances...	\$	7,675.61
Sale of Property—		
4th and Market Sts.....	\$	3,000.00
E. 7th and Alder Sts.....		5,000.00
		8,000.00
Repairs to pavement.....		79.53
Sale of bonds.....		961,690.00
		977,445.14
Transfers—		
General Fund		200,000.00
Water Fund		602,901.82
		802,901.82
		<u>\$ 2,463,815.69</u>
Disbursements—		
Warrants paid and returned		\$ 1,472,251.76
Transfers—		
General Fund		1,458.12
Water Fund		837,597.77
Municipal Paving Rotary Fund		9,181.16
		848,237.05
Balance November 30, 1928....		143,326.88
		<u>\$ 2,463,815.69</u>

APPROPRIATION CONSTRUCTION AND EXTENSION OF WATER MAINS

Account Title	Symbol	
Personal Services	A	
Salaries	1	\$ 186,282.62
Special services	2	5,537.41
Supplies	B	
Office	1	1,002.43
Fuel	2	275.96
Food	4	12,119.48
Cleaning and disinfecting	5	15.15
Motor vehicle	6	131.91
Medical and surgical	9	47.87
General plant	10	4,583.13
Material	C	
Building	3	313.68
General plant	4	515,785.75
Equipment	D	
Office	1	1,036.03
Household	2	125.27
Motor vehicles and equipment	5	4,569.00
Tools	7	140.15
General plant	8	28,050.32
Contract and Open Order Service	E	
Construction and extension	1	1,034,234.22
Repairs	E	
General	2	243.54
Transportation	E6	
Hire of automobiles	B	1,029.01
Carfare	E	.75
Other transportation	F	601.25
Contingencies	F	288.12
Fixed Charges and Contributions	G	
Rent	2	38.75
Other fixed charges	6	1,920.62
Purchase of real estate	H	500.00
Refund water main assessments		1,132.05
Total expenditures		\$ 1,799,403.22
Total warrants drawn		\$ 1,457,057.79
Miscellaneous debits		342,387.43
Miscellaneous credits (deduct)		42.00
Claims outstanding		76,838.84
Total encumbrance		\$ 1,876,242.06
Total appropriation		1,876,242.06
Unencumbered balance		

BROADWAY BRIDGE FUND

Balance December 1, 1927		\$ 5,133.12
Receipts—		
Interest on daily balances	\$ 105.80	
Bonds cashed	4,000.00	
Interest on bonds	170.00	4,275.80
		\$ 9,408.92
Disbursements—		
Warrants paid and returned		\$ 4,014.70
Balance November 30, 1928		5,394.22
		\$ 9,408.92

APPROPRIATION PURCHASE OF BONDS

Appropriation 1928		\$ 4,014.70
Claims Audited and Warrants Drawn—		
Securities purchased		4,014.70

CIVIC EMERGENCY FUND

Balance December 1, 1927		\$ 564.10
Receipts—		
Interest on daily balances	\$ 29.12	
Boxing bouts	7,844.87	
Refund Western Dairy Products Co.	265.50	8,129.49
		\$ 8,693.59
Disbursements—		
Warrants paid and returned		\$ 7,844.73
Balance November 30, 1928		848.86
		\$ 8,693.59

APPROPRIATION DONATIONS TO CHARITY

Appropriation 1928		\$ 7,357.98
Claims Audited and Warrants Drawn—		
Disabled War Veterans	\$ 125.00	
Sabre Club Relief Corps	300.00	
St. Agnes Baby Home	200.00	
Newsboys' Fund	100.00	
Ex-Service Men's Organization	750.00	
Audit Municipal Boxing Commission	1,500.00	
Portland Juvenile Hospital for Girls	500.00	
Fruit and Flower Mission	500.00	
Albertina Kerr Nursery	115.00	
Margaret Abarr	4.25	
Crippled children's picnic	3,263.73	7,357.98

NELLIE ROBINSON FUND

Balance December 1, 1927.....	\$ 381.46
Receipts—	
Interest on daily balances.....	7.66
	<u>\$ 389.12</u>
Balance November 30, 1928.....	\$ 389.12

APPROPRIATION EXPENSE INSTALLING FOUNTAINS

Appropriation brought forward.....	\$ 245.73
Appropriation carried forward.....	245.73

MT. HOOD RAILWAY & POWER CO. STREET REPAIR FUND

Balance December 1, 1927.....	\$ 1,000.00
Balance November 30, 1928.....	\$ 1,000.00

GANTRY CRANE FUND

Balance December 1, 1927.....	\$ 290.71
Receipts—	
Interest on daily balances.....	.76
Transferred to General Fund.....	.20
	<u>\$ 291.67</u>
Disbursements—	
Warrants paid and returned.....	\$ 291.67

BRIDGE ACCESS FUND

Balance December 1, 1927.....	\$ 17,232.40
Receipts—	
Interest on daily balances.....	111.90
Transferred to Bridge Access Fund No. 2.....	16,327.50
	<u>\$ 33,671.80</u>
Disbursements—	
Warrants paid and returned.....	\$ 22,400.41
Transferred to General Fund.....	959.84
Balance November 30, 1928.....	10,311.55
	<u>\$ 33,671.80</u>

ACCESS TO BRIDGES NO. 1

Personal Services	A	
Special services.....	2	\$ 959.54
Supplies	B	
Office.....	1	.30
Purchase of real estate.....	H	5,997.91
Total expenditures.....		<u>\$ 6,957.75</u>
Total warrants drawn.....		\$ 22,325.41
Miscellaneous debits.....		959.84
Miscellaneous credits (deduct).....		16,327.50
Claims outstanding.....		
Total encumbrance.....		\$ 6,957.75
Total appropriation.....		17,228.49
Unexpended balance.....		\$ 10,270.74

BRIDGE ACCESS FUND NO. 2

Balance December 1, 1927.....		\$ 21,313.20
Receipts—		
Interest on daily balances.....	\$ 2,612.21	
Sale of bonds.....	404,500.00	
Premium on bonds.....	19,786.55	
Refund of taxes.....	12.88	
Refund account extension Broadway.....	4,052.26	430,963.90
Transfer Street Extension Fund.....		31,237.89
		<u>\$ 483,514.99</u>
Disbursements—		
Warrants paid and returned.....		\$ 64,341.73
Transfers—		
General Fund.....	4,174.14	
Bridge Access Fund.....	16,327.50	
Street Extension Fund.....	339,000.00	359,501.64
Balance November 30, 1928.....		59,671.62
		<u>\$ 483,514.99</u>

NELLIE ROBINSON FUND

Balance December 1, 1927.....	\$ 381.46
Receipts—	
Interest on daily balances.....	7.66
	<u>\$ 389.12</u>
Balance November 30, 1928.....	\$ 389.12

APPROPRIATION EXPENSE INSTALLING FOUNTAINS

Appropriation brought forward.....	\$ 245.73
Appropriation carried forward.....	245.73

MT. HOOD RAILWAY & POWER CO. STREET REPAIR FUND

Balance December 1, 1927.....	\$ 1,000.00
Balance November 30, 1928.....	\$ 1,000.00

GANTRY CRANE FUND

Balance December 1, 1927.....	\$ 290.71
Receipts—	
Interest on daily balances.....	.76
Transferred to General Fund.....	.20
	<u>\$ 291.67</u>
Disbursements—	
Warrants paid and returned.....	\$ 291.67

BRIDGE ACCESS FUND

Balance December 1, 1927.....	\$ 17,232.40
Receipts—	
Interest on daily balances.....	111.90
Transferred to Bridge Access Fund No. 2.....	16,327.50
	<u>\$ 33,671.80</u>
Disbursements—	
Warrants paid and returned.....	\$ 22,400.41
Transferred to General Fund.....	959.84
Balance November 30, 1928.....	10,311.55
	<u>\$ 33,671.80</u>

ACCESS TO BRIDGES NO. 1

Personal Services	A	
Special services.....	2	\$ 959.54
Supplies	B	
Office.....	1	.30
Purchase of real estate.....	H	5,997.91
Total expenditures.....		<u>\$ 6,957.75</u>
Total warrants drawn.....		\$ 22,325.41
Miscellaneous debits.....		959.84
Miscellaneous credits (deduct).....		16,327.50
Claims outstanding.....		
Total encumbrance.....		\$ 6,957.75
Total appropriation.....		17,238.49
Unexpended balance.....		\$ 10,270.74

BRIDGE ACCESS FUND NO. 2

Balance December 1, 1927.....		\$ 21,313.20
Receipts—		
Interest on daily balances.....	\$ 2,612.21	
Sale of bonds.....	404,500.00	
Premium on bonds.....	19,786.55	
Refund of taxes.....	12.88	
Refund account extension Broadway.....	4,052.26	430,963.90
Transfer Street Extension Fund.....		31,237.89
		<u>\$ 483,514.99</u>
Disbursements—		
Warrants paid and returned.....		\$ 64,341.73
Transfers—		
General Fund.....	4,174.14	
Bridge Access Fund.....	16,327.50	
Street Extension Fund.....	339,000.00	359,501.64
Balance November 30, 1928.....		59,671.62
		<u>\$ 483,514.99</u>

APPROPRIATION ACCESS TO BRIDGES NO. 2

Personal Services	A	
Special services	2	\$ 6,083.91
Supplies	B	
Office	1	553.50
Contract and Open Order Service	E	
Construction and extension	1	366.34
Transportation	E6	
Other transportation	F	31.50
Fixed Charges and Contributions	G	
Advertising	5	51.80
Other fixed charges	6	1,411.80
Purchase of Real Estate	H	74,875.17
Total expenditures		\$ 83,374.02
Total warrants drawn		\$ 63,421.42
Miscellaneous debits		20,501.64
Miscellaneous credits (deduct)		549.04
Claims outstanding		
Total encumbrance		\$ 83,374.02
Total appropriation		408,261.66
Unencumbered balance		\$ 324,887.64

FIRE BOAT AND FIRE MAINS FUND

Balance December 1, 1927	\$ 120.72
Receipts—	
Interest on daily balances	1.99
	\$ 122.71
Balance November 30, 1928	\$ 122.71

HEALTH TEACHERS' FUND

Balance December 1, 1927	\$ 1,379.68
Receipts—	
Interest on daily balances	\$ 2.35
Payments by School Board	13,831.49
Refund of salary	32.50
	13,866.34
	\$ 15,246.02
Disbursements—	
Warrants paid and returned	\$ 13,814.66
Balance November 30, 1928	1,431.36
	\$ 15,246.02

APPROPRIATION PAYMENT OF SALARIES

Appropriation 1928		\$ 13,831.49
Claims Audited and Warrants Drawn—		
Salaries of school nurses	\$ 13,862.99	
Miscellaneous credits (deduct)	32.50	\$ 13,831.49

FIREMEN'S SALARY INCREASE FUND

Receipts—		
Interest on daily balances	\$ 270.32	
1927 taxes	20,654.33	
1928 taxes	195,609.21	
1929 taxes	956.42	
Interest on taxes	676.01	\$ 218,166.29
Transfer from General Fund		141,287.83
		\$ 359,454.12
Disbursements—		
Transferred to General Fund		\$ 346,718.53
Balance November 30, 1928		12,735.59
		\$ 359,454.12

APPROPRIATION PAYMENT OF SALARY INCREASES

Appropriation 1928	\$ 218,000.00
Claims Audited—	
Payment of salary increases	\$ 212,787.81
Unexpended balance	5,212.19
	\$ 218,000.00

POLICEMEN'S SALARY INCREASE FUND

Receipts—		
Interest on daily balances	\$ 192.92	
1927 taxes	15,114.39	
1928 taxes	414,272.12	
1929 taxes	705.42	
Interest on taxes	494.68	\$ 160,779.53
Transferred from General Fund		110,273.92
		\$ 271,053.45
Disbursements—		
Transferred to General Fund		\$ 261,660.23
Balance November 30, 1928		9,393.22
		\$ 271,053.45

APPROPRIATION PAYMENT OF SALARY INCREASES

Appropriation 1928	\$ 160,811.00
Claims Audited—	
Payment of salary increases.....	\$ 157,929.54
Unexpended balance	2,881.46
	\$ 160,811.00

POLICE TRAFFIC SIGNAL FUND

Balance December 1, 1927.....	\$ 4,602.29
Receipts—	
Interest on daily balances.....	24.44
Transferred from General Fund.....	220.59
	\$ 4,847.32
Disbursements—	
Warrants paid and returned.....	\$ 4,214.69
Transferred to General Fund.....	632.63
	\$ 4,847.32

APPROPRIATION INSTALLING TRAFFIC SIGNALS

Appropriation brought forward.....	\$ 2,180.23	
Appropriation 1928	849.56	\$ 3,029.79
Claims Audited and Warrants Drawn—		
Installing signals	\$ 2,617.75	
Miscellaneous debits	632.63	
Miscellaneous credits (deduct).....	220.59	
		\$ 3,029.79

UTILITY ELECTION FUND

Receipts—		
Deposited by utility companies.....	\$ 40,000.00	
Interest on daily balances.....	111.19	\$ 40,111.19
Disbursements—		
Warrants paid and returned.....	\$ 37,759.57	
Transferred to General Fund.....	2,148.72	
Balance November 30, 1928.....	202.90	
		\$ 40,111.19

APPROPRIATION EXPENSE SPECIAL ELECTION

Appropriation 1928		\$ 40,111.19
Claims Audited and Warrants Drawn—		
Judges and clerks.....	\$ 17,921.40	
Rent of booths.....	5,429.01	
Preparing poll books.....	1,946.50	
Refunded to utility companies.....	5,482.31	
Sunday charges	7,183.25	\$ 37,962.47
Miscellaneous debits		2,148.72
		\$ 40,111.19

TRUSTEES' FUND

Receipts—		
Temporary deposits		\$ 29,500.06
Disbursements—		
Returned to depositors.....	\$ 7,162.46	
Balance November 30, 1928.....		22,337.60
		\$ 29,500.06

PAVING FUND

Balance December 1, 1927.....		\$ 2,491.33
Receipts—		
Collection of assessments.....	\$ 28,956.11	
Sale of bonds.....	73,598.00	102,554.11
		\$ 105,045.44
Disbursements—		
Warrants paid and returned.....	\$ 104,749.98	
Transferred to General Fund.....	.11	
Balance November 30, 1928.....		295.35
		\$ 105,045.44

STREET IMPROVEMENT FUND

Balance December 1, 1927.....		\$ 179,482.68
Receipts—		
Collection of assessments.....	\$ 874,139.47	
Sale of bonds.....	1,305,352.42	2,179,491.89
Transfers—		
General Fund	601.60	
Special Bridge Fund.....	46,304.00	
Street Extension Fund.....	13,794.69	60,700.29
		<u>\$ 2,419,674.86</u>
Disbursements—		
Warrants paid and returned.....		\$ 2,233,970.49
Transfers—		
General Fund	\$ 89.79	
Sewer Fund	223.08	
Street Extension Fund.....	137,304.00	
Improvement Bond Sinking Fund.....	660.35	138,277.22
Balance November 30, 1928.....		47,427.15
		<u>\$ 2,419,674.86</u>

SEWER FUND

Balance December 1, 1927.....		\$ 67,367.10
Receipts—		
Collection of assessments.....	\$ 163,569.52	
Sale of bonds.....	306,581.69	470,151.21
Transfers—		
Street Improvements Fund.....		223.08
		<u>\$ 537,741.39</u>
Disbursements—		
Warrants paid and returned.....		\$ 527,696.97
Transfers—		
General Fund	\$ 301.28	
Assessment Collection Fund.....	17.00	
Improvement Bond Sinking Fund.....	50.45	368.73
Balance November 30, 1928.....		9,675.69
		<u>\$ 537,741.39</u>

STREET EXTENSION FUND

Balance December 1, 1927.....		\$ 100,704.15
Receipts—		
Collection of assessments.....	\$ 140,564.33	
Interest on assessments.....	849.31	
Sale of bonds.....	34,633.06	176,046.70
Transfers—		
General Fund	4,780.70	
Assessment Collection Fund.....	61,105.18	
Bridge Access Fund No. 2.....	339,000.00	
Street Improvement Fund.....	137,304.00	542,189.88
		<u>\$ 818,940.73</u>
Disbursements—		
Warrants paid and returned.....		\$ 671,400.80
Transfers—		
General Fund	1,165.24	
Assessment Collection Fund.....	61,108.02	
Bridge Access Fund No. 2.....	31,237.89	
Street Improvement Fund.....	13,794.69	107,305.84
Balance November 30, 1928.....		40,234.09
		<u>\$ 818,940.73</u>

STREET AND SEWER INTEREST FUND

Balance December 1, 1927.....		\$ 3,929.43
Receipts—		
Interest on assessments.....	\$ 18,968.68	
Interest on sale of bonds.....	15,264.28	
Payments by General Fund.....	11,000.000	45,232.96
Transferred from General Fund Fund.....		51.80
		<u>\$ 49,214.19</u>
Disbursements—		
Warrants paid and returned.....	51.10	
Interest paid on warrants.....	47,755.43	\$ 47,806.53
Transfer Improvement Bond Interest Fund.....		12.52
		1,395.14
Balance November 30, 1928.....		<u>\$ 49,214.19</u>

IMPROVEMENT BOND SINKING FUND

Balance December 1, 1927.....		\$ 86,697.56
Receipts—		
Collection of bonded assessments.....		1,250,991.80
Transfers—		
Street Improvement Fund.....	\$ 660.35	
Sewer Fund	50.45	
Improvement Bond Interest Fund.....	.45	711.25
		<u>\$ 1,338,400.61</u>
Disbursements—		
Warrants paid and returned.....	1,217.46	
Improvement bonds redeemed.....	1,213,267.96	\$ 1,214,485.42
Transfers—		
Improvement Bond Interest Fund.....	.51	
Lighting Bond Sinking Fund.....	144.21	144.72
Balance November 30, 1928.....		123,770.47
		<u>\$ 1,338,400.61</u>

IMPROVEMENT BOND INTEREST FUND

Balance December 1, 1927.....		\$ 20,011.99
Receipts—		
Interest on daily balances.....	\$ 2,590.87	
Interest on assessments.....	328,560.75	
Penalties on assessments.....	17,585.74	
Payment by Assessment Collection Fund..	50,000.00	398,737.36
Transfers—		
Street and Sewer Interest Fund.....	12.52	
Improvement Bond Sinking Fund.....	.51	13.03
		<u>\$ 418,762.38</u>
Disbursements—		
Warrants paid and returned.....	717.59	
Interest on bonds.....	400,042.86	\$ 400,760.45
Transfers—		
Sinking Fund	297.54	
Improvement Bond Sinking Fund.....	.45	
Lighting Bond Interest Fund.....	33.94	336.93
Balance November 30, 1928.....		17,665.00
		<u>\$ 418,762.38</u>

IMPROVEMENT BOND SINKING FUND—LINNONTON

Balance December 1, 1927.....	\$ 24.76
Receipts—	
Collection of bonded assessments.....	790.03
	<u>\$ 814.79</u>
Disbursements—	
Transferred to Sinking Fund.....	\$ 810.00
Balance November 30, 1928.....	4.79
	<u>\$ 814.79</u>

IMPROVEMENT BOND SINKING AND INTEREST FUND

Balance December 1, 1927.....	\$ 200.79
Balance November 30, 1928.....	\$ 200.79

LIGHTING BOND SINKING FUND

Balance December 1, 1927.....	\$ 64,829.20
Receipts—	
Collection of bonded assessments.....	89,753.01
Transfers—	
Improvement Bond Sinking Fund.....	144.21
	<u>\$ 154,726.42</u>
Disbursements—	
Warrants paid and returned.....	\$ 146,850.97
Balance November 30, 1928.....	7,975.45
	<u>\$ 154,726.42</u>

LIGHTING BOND INTEREST FUND

Balance December 1, 1927.....		\$ 6,562.98
Receipts—		
Interest on daily balances.....	\$ 587.66	
Interest on assessments.....	18,575.34	
Penalties	293.82	
Interest on investments.....	4,765.78	24,222.60
Transfer Improvement Bond Interest Fund		33.94
		<u>\$ 30,824.52</u>
Disbursements—		
Warrants paid and returned.....	.61	
Interest coupons paid.....	22,508.65	\$ 22,509.26
Balance November 30, 1928.....		8,315.26
		<u>\$ 30,824.52</u>

RECAPITULATION OF APPROPRIATIONS AND EXPENDITURES BY FUNDS FOR YEAR ENDING NOVEMBER 30, 1928

Title of Account	Warrants Drawn	Miscellaneous Debits	Miscellaneous Credits (Deduct)	Claims Outstanding	Interest Coupon Paid
General Fund—					
Expenditures—Various Bureaus	\$ 5,238,908.68	\$ 550,524.48	\$ 943,670.13	\$ 37,637.64	
Temporary cons.	3,706,000.00			465,000.00	
Balanced Indebtedness Interest Fund—					\$ 494,405.00
Payment of Interest	165.37				
Commission and Exchange, N. Y.	290,362.04				
Sinking Fund—					
Purchase of Securities					
Redemption of Bonds					
Parkgrounds and Parks Fund—					
Purchase of Land Equipment and Improvement of Playgrounds and Parks	95,474.09	6,608.95	4,306.31	6,819.20	
Cost of Fills and Construction of Bridges	91,273.58	34,438.36		10,262.00	
Public Auditorium Fund—					
Operation and Maintenance	35,688.33	753.20			
Fire Department Construction Fund No. 1—					
Construction of Firehouses	3,034.50	4,486.14			
Fire Department Construction Fund No. 2—					
Construction of Firehouses	387,952.65	24,460.26	4,756.48	26,511.98	
Parks and Boulevard Construction Fund—					
Construction and Improvement of Parks and Boulevards					
Water Fund—					
Operation and Maintenance	993,849.96	42,266.20	334,947.69	190.00	719,105.00
Interest on Bonds					
Sinking Fund Requirement	279,838.13				
Water Bond Sinking Fund—					
Purchase of Securities	302,498.42				
Redemption of Water Bonds					
Redemption Fund—					
Redemption of Certificates	104,210.36				
Assessment Collection Fund—					
Purchase of Property for Delinquent Assessments	487,636.12	1,387.53	108.43		
Municipal Paving Improvement Fund—					
Improvement of Streets					
Municipal Paving Rotary Fund—					
Paving Rotary Account	217,086.75	54,465.66	253,852.10		

RECAPITULATION OF APPROPRIATIONS AND EXPENDITURES BY FUNDS FOR YEAR ENDING NOVEMBER 30, 1928—Continued

Title of Account	Warrants Drawn	Miscellaneous Debits	Miscellaneous Credits (Deduct)	Claims Outstanding	Interest Coupon Paid
Eastmoreland Golf Fund—					
Operation and Maintenance	\$ 33,615.78	\$ 8,039.36	\$ 5,631.80		\$ 5,310.00
Rooney Account	5,791.79	104.58	5,896.37		
West Hill Golf Fund—					
Operation and Maintenance	8,549.53	2,699.29	1,184.04		
Rose City Golf Fund—					
Operation and Maintenance	37,593.34	9,303.30	5,294.12		4,200.00
Auto Camp Fund—					
Improvement of Auto Camps	1,197.76	748.18			
Garbage Crematory Fund—					
Construction of Crematory	102,954.33	272.29	5.30		
U. S. Grant Property Sales Fund—					
Sale of Property	965.19	17.82			
Water Construction Fund—					
Construction and Extension of Water Mains	1,457,057.79	342,387.43	42.00	76,838.84	
Broadway Bridge Fund—					
Purchase of Bonds	4,014.70				
Civic Emergency Fund—					
Donations to Charity	7,357.98				
Nellie Robinson Fund—					
Installing Fountains					
Bridge Access Fund No. 1—					
Access to Bridges	22,325.41	959.84	16,327.50		
Bridge Access Fund No. 2—					
Access to Bridges	63,421.42	20,601.04	549.04		
Health Teachers Fund—					
Payment of Salaries	13,863.99		32.50		
Firemen's Salary Increase Fund—					
Payment of Salary Increases		212,787.81			
Policemen's Salary Increase Fund—					
Payment of Salary Increases		157,929.54			
Police Traffic Signal Fund—					
Installing Traffic Signals	2,017.75	632.63	220.59		
Utility Election Fund—					
Special Election	37,952.47	2,148.72			
Totals	\$14,012,756.21	\$ 1,477,922.91	\$ 1,576,824.40	\$ 623,258.66	\$ 1,223,020.00

RECAPITULATION OF APPROPRIATIONS AND EXPENDITURES BY FUNDS FOR YEAR
ENDING NOVEMBER 30, 1928—Continued

Title of Account	Bonds Re-deemed	Total Encumbrance	Total Appropriation	Un-expended Balance
General Fund—				
Expenditures—Various Bureaus		\$ 4,883,488.67	\$ 4,937,061.28	\$ 53,572.61
Temporary Loans		4,171,000.00	4,171,000.00	
Bonded Indebtedness Interest Fund—				
Payment of Interest		494,405.00	502,083.50	7,658.50
Commission and Exchange, N. Y.		165.37	350.00	184.63
Sinking Fund—				
Purchase of Securities		200,362.04	400,000.00	109,637.96
Redemption of Bonds		142,500.00	142,500.00	
Purchase of Land and Equipment and Improvement of Playgrounds and Parks	\$ 142,500.00			
Special Bridge Fund—				
Cost of Fills and Construction of Bridges		104,595.63	114,971.07	10,375.44
Public Auditorium Fund—				
Operation and Maintenance		135,973.94	230,970.18	94,996.24
Fire Department Construction Fund No. 1—				
Construction of Firehouses		36,441.53	36,441.53	
Fire Department Construction Fund No. 2—				
Construction of Firehouses		7,520.64	7,520.64	
Parks and Boulevards Construction Fund—				
Construction and Improvement of Parks and Boulevards		414,168.41	427,641.22	13,472.81
Water Fund—				
Operation and Maintenance		1,628.24	1,628.24	
Interest on Bonds		701,358.47	701,358.47	
Sinking Fund Requirements		719,105.00	734,615.00	15,510.00
Water Bond Sinking Fund—				
Purchase of Securities		279,838.13	279,838.13	
Redemption Fund—				
Redemption of Water Bonds	\$ 3,000.00	302,498.42	600,000.00	297,501.58
Redemption of Certificates		3,000.00	3,000.00	
Assessment Collection Fund—				
Purchase Property for Delinquent Assessments		104,210.36	200,000.00	95,789.64
Municipal Paving Improvement Fund—				
Improvement of Streets		488,815.22	505,580.00	17,264.78
Municipal Paving Rotary Fund—				
Paving Rotary Account		17,700.31	200,000.00	200,000.00
			25,590.00	7,889.69

RECAPITULATION OF APPROPRIATIONS AND EXPENDITURES BY FUNDS FOR YEAR
ENDING NOVEMBER 30, 1928—Continued

Title of Account	Bonds Re-deemed	Total Encumbrance	Total Appropriation	Un-expended Balance
Eastmoreland Golf Fund—				
Operation and Maintenance	\$ 10,000.00	\$ 51,333.34	\$ 51,333.34	\$ 2,071.53
Rotary Account		2,071.53	2,071.53	
West Hills Golf Fund—				
Operation and Maintenance		10,004.78	10,064.78	
Rose City Golf Fund—				
Operation and Maintenance	1,000.00	46,802.52	46,802.52	
Auto Camp Fund—				
Improvement of Auto Camps		1,945.94	2,627.48	681.54
Garbage Crematory Fund—				
Construction of Crematory		103,221.32	112,479.17	9,257.85
U. S. Grant Property Sales Fund—				
Sale of Property		983.01	4,000.00	3,016.99
Water Construction Fund—				
Construction and Extension of Water Mains		1,876,242.06	1,876,242.06	
Broadway Bridge Fund—				
Purchase of Bonds		4,014.70	4,014.70	
Civic Emergency Fund—				
Donations to Charity		7,357.98	7,357.98	
Nellie Robinson Fund—				
Installing Fountains		245.73	245.73	
Bridge Access Fund No. 1—				
Access to Bridges		6,957.75	17,228.49	10,270.74
Bridge Access Fund No. 2—				
Access to Bridges		83,374.02	408,261.66	324,887.64
Health Teacher's Fund—				
Payment Salary Increase Fund		13,831.49	13,831.49	
Women's Salary Increase Fund—				
Payment of Salary Increases		212,787.81	218,000.00	5,212.19
Placement of Salary Increase Fund—				
Payment of Salary Increases		157,920.54	160,811.00	2,881.46
Police Traffic Signal Fund—				
Installing Traffic Signals		3,029.79	3,029.79	
Utility Election Fund—				
Special Election		40,111.19	40,111.19	
Totals	\$ 156,500.00	\$ 15,916,034.38	\$ 17,230,642.17	\$ 1,284,007.79

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928

Ledger No. 5 Page	Warrants Outstanding	Balances
1. Waverleigh Blvd., E. 28th to E. 37th Sts. First St. et al.....	\$ 2,779.37 .41	\$.32
Killingsworth Ave., Patton Ave. to Wil- lamette Blvd.	467.85	
21st St., Northrup to Sherlock.....	13.71	
2. 19th St., Overton to Wilson Sts.....	802.18	.77
E. 12th St., Failing to Fremont.....	24.00	
Tillamook St., E. 14th St. to E. 24th St.. E. 35th St., Hawthorne Ave to Harrison St.	1,151.75 2.89	.07
Hall St. et al.....	11,665.92	
3. E. 28th St., Wasco to Halsey.....	331.67	
Halsey St., Holladays's Add. to E. 22nd St.	2,388.81	
Corbett St. in Terwilliger Homestead..	.....	3,310.18
4. Knott St., E. 24th St. to E. 33rd St.....	9.29	
Concord St., Jarrett St. to Ainsworth Ave.	4.51	
Portions of Mason St. et al.....	27.00	.02
E. 26th St., Stark to Burnside Sts.....	211.79	
Lombard St., Westanna to Wabash....	301.55	.25
5. Corbett St. et al.....	68.33	
Kingston Ave. et al.....	197.73	
Marguerite Ave., Division to Hawthorne Ave. ....	.81	
Brandon St., Lombard to Argyle.....	.....	1,000.00
24. Michigan Ave., Prescott to Alberta.....	292.90	
34. Tenino Ave. et al.....	15.65	
60. E. 78th St. North, Villa to Oregon.....	517.10	517.10
71. Cora Ave., E. 37th to E. 42nd Sts.....	13.00	2.15
75. Killingsworth Ave., Willamette Blvd. to Interstate Ave.	58.70	
82. Gay St. et al.....	699.57	
91. E. 28th St. et al.....	498.36	
96. St. Helens Road, Ferry St. to C St.....	273.56	
102. 42nd Ave. S. E., 42nd to 48th Sts.....	376.66	
124. Holman St., E. 8th to E. 13th Sts.....	13.78	
156. Sumner St., Delaware Ave. to Greeley..	174.76	
174. E. Pine St., E. 55th to E. 57th Sts.....	71.52	
200. Foster and Powell Valley Road.....	6.67	*.72
209. Watts St., Interstate to Minnesota Ave. 213. 44th St. S. E., 43rd Ave. to 45th Ave.....	398.00 110.76	
219. Willow St., E. 63rd to E. 60th Sts.....	106.84	
225. Dwight St., Lombard to Willis Blvd.....	178.75	
229. Emerson and E. 13th Sts.....	29.15	
233. E. 72nd St., Taylor St. to Taborside.....	338.17	
236. Halleck St., Wahsburn to Peninsula....	29.18	
242. E. 74th St., E. Everett St. to Thorburn Ave.	236.08	
244. Montana Ave., Killingsworth to Ains- worth	275.34	
245. W. 1/2 E. 86th St., Billinger to Beryl Ter- race	6.00	
250. E. 29th St. et al.....	147.87	
Dwight St., Houghton to Willis Blvd....	15.06	
251. E. Burnside St. et al.....	27.98	
254. Baldwin St., Peninsula to Burrage St.. 256. Corbett St., Texas to Nebraska Sts.....	3.30	3.30
263. E. 31st St., Alberta to Holman Sts.....	3,360.00	6.07
264. Gantenbein Ave., Ivy to Fremont Sts..	58.00 26.58	

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 5 Page	Warrants Outstanding	Balances
265. E. 72nd St., Siskiyou to Sandy Blvd....	\$ 65.36	
267. E. 33rd St., Prescott to Webster Sts....	481.76	
271. Bayard St., Willis to Columbia Slough Road	523.95 379.80	
273. Lambert St., Eastmoreland to Berkeley	101.57	\$.95
274. Montana Ave. et al Dist. 580.....	1.05	
275. Holgate St. and 45th Ave.....	528.19	
279. Highland St., Commercial to Williams Ave.	21.40	
282. Swanson and Long Ave.....	17.15	6.70
284. Oregon St., E. 63rd St. to 64th St..... E. 81st St., Beech to Sandy Blvd.....	81.44	
285. Van Houten St., Willamette to Ports- mouth Ave.	124.38	
289. E. 71st and Klickitat Sts.....	24.32	.10
290. E. 75th St., Siskiyou to Sandy Blvd....	473.27	
293. Eybee Ave., Eastmoreland to E. 41st St.	22.04	
294. Virginia St., Nebraska to Dakota Sts...	58.62	
298. Montana Ave., Liberty to Buffalo Sts...	117.90	
299. E. Franklin St., E. 36th to Springer Pk.	9.39	
303. Cruikshank, Fessenden to Olympia....	412.06	
306. Wabash Ave., Baldwin to Willis Blvd...	221.26	
308. Dekum Ave., Durham to E. 18th St.....	365.31	
311. E. 88th St., Hawthorne to E. Taylor St.	5.03	
316. Yale St., Westana to Wall Sts.....	500.00	11.23
317. Bowdoin St., McKenna to Portsmouth.	359.80	
309. Blandena St., Gantenbein to Borthwick	79.97	
321. 25th Ave., E. 62nd to 64th Sts.....	203.10	10.89
320. 67th St., Woodstock to 55th Ave. S. E...	266.95	
322. Terry St., Peninsula to Burrage.....	383.49	
328. 54th St. S. E., 33rd Ave. to 29th Ave....	194.47	
323. E. 76th and E. Clay Sts.....	188.26	
325. E. Irving and E. Hoyt Sts.....	8.35	
E. 27th St., Dekum to Morgan Sts.....	252.72	
326. Willis Blvd., Peninsula to Emerald Sts.	343.94	
327. California St., Virginia to Macadam....	378.60	
E. 85th St., Beryl Ter. to E. Glisan St...	475.50	
328. Maryland Ave., Dekum to Stafford Sts.. 329. Winchell St., Chautauqua to Woolsey St.	237.43 374.43	20.56
331. E. Ash St., E. 79th to E. 82nd St.....	8.46	
332. Dekum Ave. et al.....	67.87	
333. Harvard St., Fiske to Haven Sts.....	178.19	
336. E. 83rd, Base Line to E. Ash.....	221.82	
337. 41st Ave., 42nd to 46th Sts. S. E.....	265.29	
338. Hodge St., Lombard to Willis Blvd.....	27.15	
340. E. 28th and Halsey Sts.....	432.83	
431. Lancaster St., Bryant to Lombard Sts.. 40th Ave., E. 52nd to Foster Road.....	33.02 316.49	
346. Concord St., Simpson to Ainsworth.....	202.17	
349. E. 42nd St., 64th to 62nd Ave.....	500.00	151.99
349. Mears St., Midway to Macrum Aves....	614.14	
353. Jarrett and E. 32nd Sts.....	125.37	
355. E. 84th St., E. Burnside to E. Glisan Sts.	862.48	352.99
356. Cardinal Drive et al.....	28.49	
357. Moore St., Ainsworth to Highland St....	125.56	
358. Albina Ave., Lombard to Watts Sts....	14.92	
359. Holland St., E. 8th to E. 9th Sts.....	11.21	
54th Ave. S. E., E. 82nd St. to Gardena.. Going St., E. 30th to 31st Sts.....	48.72	

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 5 Page	Warrants Outstanding	Balances
360. Farragut St., Vancouver to Rodney Ave.	\$ 370.73	
362. Winchell St., Interstate to Montana Aves.	108.06	
364. Farragut St., Pennsylvania Ave. to Bura- rage St.	173.19	\$ 13.87
367. E. 28th St., Sumner to Killingsworth Ave.	120.85	
368. Hartman St. et al.	276.86	
369. Portland Blvd., Interstate to Union Ave.	534.94	
371. E. 16th St., Nehalem to Malden Sts.	131.18	
373. Mill and 19th Sts.	100.00	12.50
374. Woolsey St., Lombard to Willis Blvd.	176.72	
376. Edgewood Road et al.	124.88	
378. Depauw St., Montieth to Portsmouth.	72.07	
379. Tyler St., Lombard to Fessenden Sts.	35.59	16.18
380. Denver Ave., Killingsworth to Lombard	779.91	
381. Curry St. et al.	69.08	
382. Baldwin St., Wabash to Emerald	338.68	3.16
383. Detroit Ave., Killingsworth to Ains- worth	155.76	
387. Terwilliger Ave. and 1st St.	246.88	4.70
389. St. Johns Ave., Kellogg to Seneca St.	29.97	
390. Sacramento St. et al.	761.73	
391. Saratoga St., Interstate to Minnesota Ave.	244.86	
394. Hancock St. et al.	1.25	
395. E. 76th and Stanton Sts.	21.75	21.75
396. E. 33rd St., Tillamook to Fremont Sts.	63.78	5.00
398. Hodge St., Willamette Blvd. to Lom- bard St.	259.93	
399. Ainsworth Ave., Willamette Blvd. to Denver	274.03	
400. Bronson Ave., Bryant to Morgan St.	519.68	
401. Amherst and Carey Blvd.	24.66	
402. Houghton St., Wall to Portsmouth Ave.	1,007.68	77.66
403. E. 45th St. et al Dist. 54.	7.71	2.96
406. Miller Ave., E. 16th to 21st Sts.	531.73	34.06
408. Watts and Delaware Ave.	93.43	
409. E. 80th St., E. Stark to Glisan Sts.	226.96	
410. Powell Valley Road et al Dist. 51.	1,002.08	
415. Syracuse St., Portsmouth to McKenna	512.66	
416. E. 29th St. et al Dist. 55.	209.88	
417. Cora Ave., Milwaukie to E. 15th St.	180.26	
418. Hawthorne Ave., E. 77th St. to 82nd St.	6.10	
419. Arlington Place, Emerald to Penn Ave.	200.00	3.60
421. Flavel Ave., Eastmoreland to Berkeley. Borthwick St., Portland Blvd. to Dekum	1,000.00	47.42
425. E. Clay St., E. 30th St. to 29th St.	144.49	
Oregon St. et al Dist. 12.	227.11	
428. E. 52nd St., E. Burnside to Glisan Sts.	98.64	
429. E. 6th St., Holman to Portland Blvd.	347.58	.05
430. Polk St. and Central Ave.	122.93	
431. Upper Drive, Smith Add. to Montgom- ery Drive	411.54	
433. E. 57th St., E. Burnside to Everett Sts.	234.20	234.20
434. Moore St., Highland to Portland Blvd.	696.97	338.26
435. 47th Ave., E. 52nd to 58th Sts.	7.94	
436. E. 14th St., Going to Humbolt Sts.	93.76	
438. E. Burnside and 71st Sts.	64.74	
439. E. 33rd St., Shaver to Prescott Sts.	24.55	
	578.48	

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 5 Page	Warrants Outstanding	Balances
439. E. 18th and Junior Sts.	\$ 9.20	\$ 1.55
443. 1st and "C" Sts.	285.60	98.85
449. E. 72nd St., Beech to Failing Sts.	145.49	
Alma St., Syracuse to Lombard St.	5.56	
450. E. 77th St., 50th to 52nd Aves.	75.84	
E. 57th St., Thompson to Broadway	14.82	
451. Haven St., Willamette to Lombard St.		.05
452. 62nd Ave., E. 62nd to 72nd Sts.	329.86	
454. E. 69th St., Fremont to Failing Sts.	81.00	
456. Summer St., Gay to Delaware Ave.	229.82	
459. 50th Ave., 60th St. to Arleta Park No. 3	33.85	.05
461. Atlantic St. et al Dist. 16.	132.48	32.86
462. Kerby St., Bryant to Lombard Sts.	29.23	
463. E. 74th St., Sandy to Mason St.	170.44	
464. E. 59th St., Halsey to Thompson Sts.	750.87	227.98
466. Powell Valley Road and 52nd St.	142.76	
467. Springville Road and Shephard St.	290.00	
471. Mohawk St., Smith to Fessenden St.	132.63	.68
471. Jersey St. et al Dist. 77.	500.00	500.00
472. E. 77th St., Siskiyou to Sandy Blvd.	500.00	247.85
473. Concord St., Prescott to Willamette Blvd.	456.38	
480. Killingsworth Ave., E. 16th to E. 30th Sts.	593.67	3.84
Ledger No. 6		
Page		
1. N. 18th St., N to to Sherlock Add.	86.44	
Chapman St., Jefferson to Taylor Sts.	240.95	54.42
Second St., Sheridan to Gibbs.	251.52	
Williams Ave., Grant to Going.	2,500.00	
Water St. Planking.	86.32	
Multnomah St., Grover to Curry.	952.34	
1st St., Madison to Stark Sts.	.28	
Macadam St., Grover to Block 188.	406.95	
2. Union Ave., Alberta to Love's D. L. C.	6,986.56	
Shaver St., Union Ave. to E. 12th.	227.64	
Oak St., 4th to 6th Sts.	42.00	
Goldsmith St., Irving's D. L. C. to Al- bina	101.43	4.00
S. W. 1/2 of Front St., Watson's Add. to Sherlock Add.	34.99	
E. Burnside St., E. 82nd St. to E. 90th.	112.30	5.68
Kingston Ave. et al Dist. 231.	11,777.86	
3. E. Stark St. et al Dist. 253.	214.24	
E. Glisan St., E. 82nd to E. 92nd.	189.18	
Burlington St., Bradford St. to James John Add.	451.73	49.60
Fessenden St., Oswego to Smith Ave.	577.21	58.50
E. 70th St. S. E., 63rd to 65th Aves. S. E.	.80	.80
Whitman Ave., 68th to 72nd.	.20	.20
Upper Drive in Smith's Add.	1,137.84	
Macadam St., Lowell Ave. to N. L. Sec. 15	21.00	
Jessup St., Willamette Blvd. to Dela- ware Ave.	.21	.08
	160.06	.08
3. E. Glisan St., E. 75th to E. 87th Sts.		244.39
First Ext. Hillside Blvd.	92.88	
4. 77th St. S. E., 65th Ave. to 55th Ave.	2.20	2.20
E. Lincoln St. Dist. No. 458.		

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
4. Hoffman St. and Sheffield Ave.....	\$ 35.00	
Ellis Ave., Milwaukie Ave. to E. 22nd St.	225.39	
5. E. 57th St., Sacramento to Sandy Blvd.	191.96	
Concord St., Prescott to Humboldt.....		\$ 48.57
Hood St. Fill at Sheridan.....		.60
Front St. Fill at Lane.....	356.67	5.20
6. Corbett St. Fill at Pennoyer.....		3.00
7. Hillside Blvd., P. B. Co. to Germantown		96.97
8. Elimination O-W. R. & N. N. Grade Crossing.....	70,171.66	
13. Front St., Porter to Fiske Sts.....	.10	20,371.23
Corbett St. at Grover.....		.10
Reassessment E. Burnside St.....		3.95
16. E. 32nd St., Knott to Siskiyou Sts.....		156.53
20. E. Burnside and Gilham Ave.....	542.33	
27. E. 45th St., Woodstock to 54th Aves.....	767.63	438.28
29. E. 7th St., Woodlawn Hts. to Magnolia St.....	435.60	
38. E. 36th St. et al Dist. 91.....	2,000.00	47.21
E. 58th St., 44th to 42nd Aves.....	163.71	
42. Thompson St., E. 82nd to 90th Sts.....	95.89	
43. E. 63rd St., Foster Road to Powell St...		7.16
44. Grand Ave., Going to Wygant Sts.....	156.73	
46. E. 32nd St., Irvington Pk. to Holman St.	510.23	
48. E. 49th St., 34th to 32nd Aves.....	853.78	
49. Jarrett St., E. 27th to E. 30th Sts.....	36.96	20.80
50. Vista Ave. Viaduct.....	580.10	189.97
58. E. 16th St., Killingsworth to Ainsworth	4,200.00	70.89
59. Morgan St., Rodney to Union Aves.....		16.30
E. 10th St., Claremont to Holland St...	320.79	
60. E. Everett St., E. 78th to E. 79th Sts...	311.95	
Long Ave., E. 28th to Kenilworth Ave...		.01
62. Oneonta St., Dekum Ave. to 11th St.....	151.13	
Willis Blvd., Burrage to Peninsula.....	186.82	
64. E. 30th St., Holman to North Sts.....	94.22	
65. Fremont St., E. 42nd to Sandy Blvd.....	202.44	
66. E. 52nd St., Foster Road to 65th Ave...	1,667.30	
67. Dekum Ave., Montana to Mississippi Aves.....	233.52	
69. 39th Ave., E. 42nd to E. 45th Sts.....	17.32	
70. E. 42nd St., Fremont to Killingsworth...	154.21	
75. Stafford St., Albina to Montana Ave...	10,725.47	211.44
77. E. 72nd St., E. Glisan St. to Multnomah	255.19	
79. Baldwin St., Mississippi to Kerby St...	403.65	45.87
80. 45th Ave., E. 67th to 70th Sts.....	2.00	
Terry St., Delaware to Burrage St.....	311.52	
81. Woods St. Fill.....	76.27	
82. Harney Ave., E. 17th to E. 19th Sts.....		7.00
83. Going St., E. 29th to E. 30th Sts.....	245.43	
84. Lombard St., Albina to Union Aves.....	318.44	42.36
85. 41st Ave., E. 46th to E. 52nd Sts.....	655.00	.58
86. Minnesota Ave., Bryant to Lombard.....	316.88	
88. E. Davis St., E. 67th to E. 69th Sts...	222.40	
E. Sherman St., E. 46th to E. 47th Sts...	96.46	
89. Holman St., Willamette Blvd. to Dela- ware.....	300.00	55.81
90. Pettygrove St., 26th to 27th Sts.....	325.39	
91. Montana Ave., Alberta to Blandena.....		125.00
92. Liberty St., E. 13th to E. 22nd Sts...	770.43	
94. E. 25th St., Killingsworth to Jarrett...	1,146.46	
	134.07	

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
94. E. 86th St., 70 to 65th Ave.....	\$ 1,013.66	
96. E. 62nd St., E. Glisan to Oregon.....		\$.04
97. E. 92nd St., 51st to 48th Aves.....	173.77	
101. Jarrett St., E. 9th to E. 11th Sts.....	459.78	
102. Winchell St., Minnesota to Mississippi Aves.....		77.02
E. Clay St., E. 76th to E. 80th Sts.....	359.55	5.00
103. Siskiyou and E. 27th Sts.....	4,613.96	
104. Crane St., E. 19th to E. 21st Sts.....	1,038.80	
96. Ramona Ave., E. 39th to E. 41st Sts...		2.00
115. E. 15th St., Pershing to Powell Sts...		.10
108. 27th Ave., E. 43rd to E. 48th Sts...	156.01	
111. E. 17th St., Nehalem to Lambert St...	30.99	
Nehalem Ave., Eastmoreland to E. 37th St.....	235.94	
114. E. Kelley St., E. 31st to E. 36th Sts...	818.40	
119. Ogden and 72nd Aves.....	922.99	160.00
120. Corbett St. et al.....	100.00	6.65
123. E. 57th St., 44th to 42nd Aves.....	600.00	593.46
124. Emeretta St., Lombard to Russett.....		.36
127. Macadam St., Dakota to Virginia Sts...	208.25	8.17
129. E. Hoyt St., E. 49th to E. 52nd Sts...	156.04	37.36
130. Brooklyn St. et al Dist. 95.....	205.88	
132. E. 43rd St. et al Dist. 8.....	377.61	4.81
133. E. 51st St., Electric Hts. to Halsey St...	31.06	
E. 30th St., Knott to Siskiyou Sts.....	500.00	74.00
134. Boston Ave., Ainsworth to Holman St...	547.28	
135. E. Franklin St., E. 35th to E. 36th Sts...	211.06	
Missouri Ave., Sumner to Emerson Sts...	440.10	218.43
136. E. 28th St., Rhone to Powell Sts.....	43.66	
E. 44th St., 57th to 53rd Aves.....	701.30	
137. Rural Ave., Eastmoreland to E. 39th St...	496.65	
Woodlawn Ave., Dekum to E. 13th St...	155.90	
138. E. 75th St., Sandy Blvd. to Prescott St...	374.75	
Going St., E. 28th to E. 29th Sts.....	270.81	
140. Halleck St. et al Dist. 61.....	355.73	
141. E. 78th St., Siskiyou to Sandy Blvd...	1,436.57	9.03
142. Omaha Ave., Bryant to Lombard Sts...	142.84	
145. Winchell St., Washburne to Wabash Aves.....	233.38	12.02
147. E. 75th St., Division to 29th Ave.....	394.94	106.13
148. E. 64th St., 50th Ave. to Foster Road...	197.42	2.58
149. 42nd Ave., E. 52nd St. to Foster Road...	191.78	.09
Baldwin St., Chautauqua to Washburn St.....	191.38	5.75
150. Vancouver Ave., Broadway to City Limits.....	257.61	
152. Greenwich St., Portland Blvd. to Dekum Ave.....	2,562.94	177.76
Baldwin St., Minnesota to Mississippi Aves.....	2,222.12	11.80
154. 45th Ave., E. 70th to E. 72nd Sts.....	512.24	208.49
E. 71st St., Beech to Falling Sts.....	900.84	
155. E. 64th St., Division to 28th Ave.....	149.84	14.20
156. Clackamas St., E. 60th to Summit Add...	202.13	
157. E. 55th St., E. Couch to E. Davis Sts...	127.05	56.89
158. Campbell St., Ainsworth Ave. to Port- land Blvd.....	213.99	
158. Buffalo St., Union to Rodney Aves.....	125.61	
159. Siskiyou St. et al Dist. 50.....	2,508.97	7.74

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
Mississippi Ave., Killingsworth to Jersey St.	\$ 3,471.18	\$ 180.80
161. Omaha Ave., Jessup to Portland Blvd.	9,804.19	
E. 22nd St., Prescott to Wygant St.	2,512.54	90.92
162. Alder St. Lighting. ....		.20
165. E. 70th and E. 71st Sts.	133.03	
166. Oregonian Ave., Columbia Blvd. to Armour St.	100.00	17.44
167. Alameda Drive and E. 21st St.	2,567.38	67.20
Alley Block 7, Riverview Add.	700.11	
E. 49th St., Woodstock to 64th Aves.	2,264.49	
168. Mississippi Ave., Jessup St. to Ainsworth Ave.	3,700.00	36.05
169. Mall St., E. 39th to E. 42nd Sts.	4,121.95	14.50
Montana Ave., Fremont to Cook Ave.	3,400.00	28.75
170. Syracuse St., Burlington to Fessenden Sts.	173.27	
E. Pine St., E. 81st to E. 82nd Sts.	313.22	
171. E. 47th St., Woodstock to 55th Ave.	100.05	
Franklin St., E. 31st to E. 35th Sts.	908.70	
172. Kenilworth Ave. et al Dist. 110. ....		.02
E. 15th St., Killingsworth to Ainsworth Aves.	6,300.00	333.73
173. Bryce Ave. et al Dist. 119.	15,392.27	196.39
174. E. 10th St., Killingsworth to Ainsworth Aves.	438.69	
40th Ave., E. 45th to E. 47th Sts.	1,300.00	74.65
176. E. Burnside St. et al Dist. 112.	42,437.62	
182. 45th Ave., E. 65th to E. 67th Sts.	100.00	100.00
183. Savier St., Aspen to Auburn Sts.	969.67	
184. 41st Ave., E. 67th to E. 70th Sts.	200.00	200.00
185. E. 52nd St., Multnomah to Halsey Sts.	10.17	
186. Campaign St. et al Dist. 105.	125.23	20.36
Fenwick St., Portland Blvd. to Dekum Ave.	2,502.48	
187. 2nd St. et al (Linnton)	1,581.40	
188. Klickitat St., E. 65th to E. 68th Sts.	2,016.90	46.58
Weidler St., E. 42nd to Ralston's Add.	1,593.88	45.14
E. 16th St., Knapp to Ogden Aves.	764.26	
189. 42nd Ave., E. 67th to E. 70th Sts.	1,400.00	4.11
190. E. 11th St. et al Dist. 104.	1,769.38	
E. 69th St. and 47th Ave.	851.95	
191. E. 80th St., E. Morrison to Hawthorne Ave.	915.63	
192. Morrison St. Lighting. ....		.20
193. Jarrett St., E. 11th to E. 12th Sts.	891.62	30.76
E. 84th St., Base Line to E. Burnside St.	5,200.00	64.16
194. Oatman Ave. and Saratoga St.	69.36	9.36
Michigan Ave., Portland Blvd. to Dekum Ave.	2,629.00	
195. E. 29th St., Killingsworth to Ainsworth Aves.	152.23	
E. 28th St., Broadway to Tillamook St.	2,166.37	
196. E. 13th St., Emerson to Killingsworth Ave.	801.62	
197. E. 33rd St., Powell Valley to E. Kelly St.	687.90	
28th Ave., E. 41st to E. 45th Sts.	5,497.12	51.54
198. Hyde St., E. 9th to E. 10th Sts.	1,015.26	2.29
E. 45th St., 67th Ave. to Block 136 Woodstock	1,326.74	673.23

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
200. Interstate Ave.	\$ 107,387.31	
205. E. 61st St., 50th to 45th Aves.	4,090.97	\$ 126.43
E. Couch St., E. 50th St. to E. 55th St.	1,376.12	154.38
206. Sandy Blvd., E. 72nd to E. 82nd Sts.	168.67	1.00
Bryant St., Union to E. 8th St.	3,268.21	
207. E. 65th St., Failing to Skidmore Sts.	4,600.00	67.56
208. 38th Ave., E. 58th to E. 60th Sts.	274.45	
E. 70th St., E. Yamhill to E. Morrison Sts.	1,736.56	19.70
209. Minnesota Ave., Alberta to Blandena Sts.	3,043.87	
42nd Ave. and E. 60th St.	648.72	54.94
E. Caruthers St., E. 37th to Swan Adn.	2,325.78	8.98
210. Midway Ave., Fessenden to Bellingham	99.69	34.89
211. Klickitat St., E. 63rd to E. 64th Sts.	647.92	81.55
E. Couch and Pearl Sts.	2,667.93	18.54
Morris St., E. 70th St. to E. 72nd St.	1,314.06	76.68
212. Highland St., E. 18th to E. 22nd Sts.	3,646.90	56.48
213. Klickitat St., E. 57th to E. 61st Sts.	2,100.00	6.21
214. E. 33rd St., Webster to Columbia St. Rd.	982.74	
215. Alley Blk. 12, Piedmont.	651.44	191.30
E. 50th St., 53rd to 50th Aves.	2,354.40	
Clarendon St., Willis Blvd. to Houghton St.	852.14	313.71
216. 10th St. Lighting.	20.00	11.18
217. Dekum Ave., Boston to Newcastle Sts.	1,508.89	41.09
218. Dekum Ave., Newcastle to Denver Ave.	1,472.81	21.28
E. 31st St., Sandy to Clackamas St.	4,500.00	88.03
4th St., Miles to Crook Sts.	2,000.00	312.34
219. Kellogg St., Buchanan to Burr Sts.	2,330.91	140.05
220. Wasco St., E. 47th to Euclid Hts.	3,368.88	65.55
Atlantic St., Portland Bl. to Burrage Tr.	1,196.47	64.20
221. Humbolt St., Maryland to Montana Ave.	153.26	78.44
Leland St., E. 17th to E. 22nd Sts.	5,000.00	132.35
222. Dekum Ave., Cleveland to Union Ave.	200.00	250.47
E. 16th St., Ogden to Bybee Ave.	1,821.90	80.59
223. E. 72nd St., Knott to Siskiyou Sts.	400.00	
E. 17th St., Killingsworth to Ainsworth Aves.	6,487.10	
224. Syracuse St., Fiske to Olin Sts.	69.89	699.94
Ivanhoe St., Buchanan to Alma Sts.	4,877.88	310.47
E. Hoyt St., E. 52nd to E. 53rd Sts.	1,144.78	44.80
225. California St., Corbett St. to 260 ft. E.	800.00	138.07
Harney Ave., E. 7th to E. 8th Sts.	500.00	424.61
E. 73rd St., Failing to Mason Sts.	1,740.39	115.45
226. Fortune St., Lombard to Houghton Sts.	900.00	442.35
227. Bryant St., Villard to Greeley St.	500.00	534.81
E. 2nd St. and Gladstone Ave.	13,173.65	
228. E. 39th St., Killingsworth to Emerson St.	300.00	14.40
E. 14th St., Malden to Bybee Ave.	4,000.00	163.43
229. E. 76th St., Siskiyou to Sandy Blvd.	7,120.46	71.21
Willis Blvd., Portsmouth to Hodge St.	2,719.34	23.69
230. Willis Blvd., Portsmouth to Hodge St.	6,504.29	
231. E. 76th St., Sandy to Prescott St.	8,819.77	20.52
232. E. 79th St., Jersey to Smith St.	6,500.00	271.42
233. Chicago St., Jersey to Smith St.	4,800.00	88.60
234. Siskiyou St., E. 67th to E. 72nd Sts.	2,600.00	183.57
235. E. 11th St., Ainsworth to Holman St.	7,500.00	120.83
236. Klickitat and E. 56th Sts.	97,768.77	
240. Elimination Lovejoy St. grade crossing		

WARRANTS OUTSTANDING AND BALANCES IN THE STREET IMPROVEMENT FUND NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
244. Holland St., et al. Dist. 109.....	\$ 22,900.00	\$ 213.38
252. Elimination Vancouver Ave. grade crossing		7,328.34
219. Harvard St., Portsmouth to Stanford St.	1,547.61	
221. E. 71st St., Hyde Pk. to Prescott St....	4,917.52	
239. Delaware Ave., Lombard to Saratoga Sts.	10,669.38	
246. E. 53rd St. and 33rd Ave.....	2,100.01	
Russett St., Mississippi to Minnesota..	2,466.72	
246. E. 53rd St. and 43rd Ave.....	5,951.97	
E. Hoyt St., E. 22nd St. to E. 23rd St..	1,614.25	
E. Irving St., E. 76th to E. 75th Sts.....	732.01	
290. Welland St., et al.....	48,819.18	
		\$ 47,427.87
* Deficit.....		.72
	\$ 800,132.35	\$ 47,427.15

WARRANTS OUTSTANDING AND BALANCES IN THE SEWER FUND NOVEMBER 30, 1928

Ledger No. 5 Page	Warrants Outstanding	Balances
490. Lombard and Mobile Sts.....	\$ 32.20	
498. E. 71st and 51st Ave.....	398.70	
500. Brooklyn District	154.48	
Marquam Gulch District.....	8.80	
E. 20th St., et al.....	.80	
North Branch Brooklyn District.....	138.50	
Westmoreland System	11.00	
Holgate Ext. So. Br. Brooklyn Dist....	.80	\$ 2,481.05
Rhine St. Ext. So. Br. Brooklyn Dist...	3.75	1.95
E. Stark St. Trunk No. 1.....		20.16
504. Missouri Ave. and Morgan St.....	70.00	.55
520. Campbell St., Portland Blvd. to 100 ft. S.	8.72	8.72
524. E. 71st and Halsey Sts.....	318.57	
503. Riverside District		5.00
533. E. 10th and Holman Sts.....	154.60	
540. Rural Ave., 41st Ave. to Eastmoreland..	341.41	120.70
505. E. 13th St. Trunk.....	3,607.70	370.45
576. E. 60th St., Broadway to Hancock.....	103.29	
599. Matteson Ave. Ssystem.....	105.62	
600. Delaware and Kenton Blvd. Trunk.....	29.00	48.50
610. E. 32nd and Stanton Sts.....	1.95	
623. 43rd Ave. and 45th St. S. E.....	52.22	
624. Morse St. Trunk.....	446.45	6.15
636. E. 26th St., Ainsworth to Dekum Aves.	43.69	
643. Hoffman Ave. and Elevator St.....	807.20	
644. Hunt St., Peninsula to Kenton Blvd....	103.74	
645. E. 26th and Ainsworth Ave.....	13.45	6.15
648. Highland St., E. 13th St. to E. 18th St..	68.70	
647. Fessenden St., Fairhaven to Midway...	224.95	
654. Grand Ave., Portland Bl. to Morgan St..	190.60	97.90
651. First and Nevada Sts.....	145.60	
666. Willow St., E. 60th St. to E. 63rd St....	49.70	
663. E. 80th St., Hyles Add. to Halsey St....	146.86	
667. E. 55th St. and Private Property.....	1.00	1.00
668. 67th St. and 43rd Ave. S. E.....	54.81	
671. Vanderbilt St., Olin to Haven Sts.....	25.95	
672. E. 24th St., Ainsworth to Dekum Aves..	1,456.15	
673. Glenwood Ave. and E. 39th St.....	195.52	
875. 12th and Cardinal Drive.....	3.80	
676. E. 58th and Hassalo Sts.....	120.00	
677. 61st St. and 48th Ave. S. E.....	72.08	
678. E. 34th and North Sts.....	3,913.66	21.00
682. E. 72nd St., 45th to Foster Road.....	605.74	69.04
685. Calhoun and Hudson Sts.....	112.82	
686. Cardinal Drive System.....	282.56	
687. Farragut St., Minnesota to Albina Ave.	37.05	
688. E. 71st St., 37th Ave to 40th Ave.....	30.30	
689. E. 21st St. and Linn Ave.....	160.84	
690. E. 19th and Holman Sts.....	334.49	
694. E. 79th and Oregon Sts.....	1,001.97	77.08
699. E. 36th and Haig Sts.....	25.00	
700. Columbia Slough Channel.....	862.55	4.94
736. E. 34th and Jessup Sts.....	86.15	
741. 65th Ave. and 89th St. S. E.....	177.62	6.40
742. 74th St. S. E., 45th Ave to Foster Road.		.30
743. E. 21st St. and Nehalem Ave.....	568.30	
745. 72nd St. and 43rd Ave. S. E.....	64.35	
746. E. 69th St., Thorburn to E. Davis St....	3.10	
748. Lombard St. to Omaha Ave.....	52.88	
749. E. 88th St., 63rd Ave. to Foster Road...	147.66	

WARRANTS OUTSTANDING AND BALANCES IN THE SEWER FUND
NOVEMBER 30, 1928—Continued

Ledger No. 5 Page	Warrants Outstanding	Balances
752. 45th Ave. and E. 58th St.....	\$ 1,097.53	\$ 14.70
755. McClellan St., Brandon to Delaware....	164.91	
756. Fiske and Syracuse Sts.....	56.49	
758. Banks and Calhoun Sts.....	200.00	4.40
761. E. 60th St., Broadway to Halsey St.....	25.09	
Swenson St., Meyers to Oswego Sts.....	114.60	
762. E. 87th St. and 65th Ave.....	132.84	
764. Fox St., Meyers and Oswego Sts.....	131.08	.72
766. 4th St. and Terwilliger Hts.....	484.50	
767. Ida and Princeton Sts.....	26.50	
768. Gilham Ave., E. Burnside to Davis Sts..	1,085.90	
769. E. 24th and Alnsworth Ave.....	676.00	
770. E. 51st St., 47th to 43rd Ave.....	53.54	
771. E. 67th St. and 41st Ave.....	1,712.70	
775. Calhoun St., Smith to Fessenden St.....	127.20	
776. Oregonian Avenue.....	64.00	
782. 45th Ave., 60th St. to Foster Road.....	97.12	.06
786. Iowa Street System.....	2,262.65	2,096.15
783. 62nd Ave., E. 62nd to 67th Sts.....	269.40	
E. 19th and Crane Sts.....	16.55	
789. Watts St., Interstate to Albina.....	495.95	
E. 8th St., Bryant to Morgan Sts.....	2.00	
790. 45th Ave. and 74th St.....	797.95	22.30
792. Mason St., Colonial to Interstate.....	24.94	
793. Winchell St., Interstate to Albina.....	267.10	
795. Lombard St., Vancouver to E. 13th St..	1,129.20	
796. Hodge St., Lombard to Willis Blvd.....	53.36	
797. Newman and Olin Sts.....	253.50	
799. E. 79th St. and 52nd Ave.....	16.75	
800. Foster Road System.....	653.05	48.00
816. Oswego Street Trunk.....	2,208.35	110.95
821. E. 74th St. and Powell St.....	88.06	2.76
823. Powell Valled Rd., E. 76th to 82nd Sts..	585.47	
824. E. 86th St. and Woodstock Ave.....	1,708.81	23.10
826. St. Helens Blvd., et al.....	764.45	
828. Mohawk and Fessenden Sts.....	700.00	8.90
830. Lents Trunk.....	37,371.57	629.39
844. St. Johns and James Sts.....	521.29	6.00
848. Powell Valley Rd., E. 65th to 59th Sts..		37.96
850. Bayard St. and Willis Blvd.....	4,868.37	
860. Castle Ave. and Overlook Blvd.....	56.55	
862. Vermont Street Trunk.....	397.65	
864. Baldwin St., Minnesota to Albina Ave..	143.60	
865. Morris and E. 36th Sts.....	1,860.19	732.34
866. Haven St., Willamette to Lombard St..	335.35	2.57
868. Fessenden and Richmond Sts.....	234.29	
870. E. 55th and Clackamas Sts.....	101.45	
872. N. Branch Rhine St.....	593.00	.29
Ledger No. 6 Page		
450. Whitaker St., Kelly St. to Thomas Creek	92.00	
First St., Whitaker to Grover St.....	34.16	
Cook Ave., District Sewer.....	250.00	
Williams Ave., Alberta to Fremont.....	5.10	
Tanner Creek Sewer.....	203.16	114.32
Division St., E. 6th to Willamette River	.10	
Sullivan's Gulch Trunk Sewer No. 1....	1.60	
E. Stark St., Trunk Sewer No. 2.....	203.00	208.50

WARRANTS OUTSTANDING AND BALANCES IN THE SEWER FUND
NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
451. The Canyon Road Extension of the		
Tanner Creek Sewer.....	\$ 33.60	\$ 2.40
Water and Mill Sts.....	107.91	5.07
E. 37th and Raymond Ave.....	298.40	
E. 75th St., E. Stark to E. Glisan.....	54.31	
452. Albina Ave., Trunk District No. 55.....	1.00	1.00
Killingsworth and E. 19th St., District		
No. 119.....	9.81	9.81
Portland Blvd. to Orient St.....	131.23	
E. 27th St., et al, District 109.....	29.95	
453. E. 33rd and Stafford Sts.....	886.20	32.90
E. 22nd Street Trunk.....	17.50	
33rd Ave. and 60th St., District 92.....		6.15
E. 65th St. and Private Property.....	161.90	
Union Ave. and Portland Blvd.....	.20	.51
456. Fairmont Blvd. Branch.....	326.60	
457. Terry St., Minnesota to Albina Ave.....	65.90	
458. 31st St., Willamette Hts. to Thurman		
St.....	123.89	
459. E. 34th St., Alberta to Killingsworth		
Ave.....	122.52	
E. 52nd St. and 46th Ave.....	72.10	
465. Tyler and Fessenden Sts.....	174.50	
466. Wasco St., E. 60th St. to E. 63rd St....	66.85	
E. 71st St., 65th to 67th Aves.....	57.05	
Commonwealth and Sheffield Aves.....	385.20	
469. Foss St., Winchell to Willamette Blvd..	187.70	
471. Montana Ave., Buffalo to Lombard St.	81.90	
472. Minnesota Ave. and Buffalo St.....	275.70	
473. Princeton St., Stanford to Haven St....	219.31	
Greenwich St., Portland Blvd. to De-		
kum Ave.....	100.00	8.65
Ivanhoe St., Burr to Buchanan Sts.....	1,259.70	14.07
476. Hereford St., Lombard to Hodge Sts....	195.95	
E. 67th St., 30th to 27th Ave.....	147.84	
477. Fenwick St., Portland Blvd. to Lom-		
bard St.....	198.29	
E. 66th St., 55th Ave. to 50th Ave.....	422.80	35.45
478. Central Ave., Fessenden to St. Johns...	54.35	
480. Front Street Intercepting.....	1,369,815.32	
490. Virginia Hts. Branch.....	1,040.00	
491. E. 7th St., Dekum to Morgan.....	224.39	
Maryland Ave., Portland Blvd. to De-		
kum Ave.....	800.00	54.70
492. Buffalo St., Vancouver to E. 8th St.....	1,707.51	
493. Clarendon St., Lombard to Hudson.....	1,800.00	47.65
494. 46th Ave. and 69th St.....	217.50	
496. Extension Woods Street Gulch.....	7,049.05	4.45
498. E. 21st and Nehalem Sts.....		9.00
E. 28th and Holman Sts.....	363.04	
499. Holland St., Montana to Albina Ave....	185.96	3.20
500. Holland St., Union to E. 8th St.....	258.55	9.60
501. Concord St., Portland Blvd. to Lombard	3,726.79	120.89
St.....		
502. Leonard and Burlington Sts.....	6.96	.05
503. Tacoma Ave., et al, District 63.....	16,316.00	88.06
504. Oberlin St., Van Houten to McKenna... 62nd Ave., E. 42nd to E. 39th Sts.....	1,462.35	43.93
505. Chicago St., Kellogg to Central Ave....	792.80	37.71
506. E. 58th and Hancock Sts.....	636.85	65.85
	1,500.00	

WARRANTS OUTSTANDING AND BALANCES IN THE SEWER FUND
NOVEMBER 30, 1928—Continued

Ledger No. 6 Page	Warrants Outstanding	Balances
507. E. 50th St. and 38th Ave.....	\$ 1,467.46	\$ 273.96
508. Grand Ave., Ainsworth to Portland Blvd	61.49	
509. Bowdoin St., Van Houten to McKenna..	1,502.20	19.09
510. E. 85th St., Woodstock to Foster Rd....	38.10	
511. Denver and Dekum Aves.....	8,000.00	392.47
512. Russett and Mallory Ave.....	1,230.02	
513. E. Madison St., E. 73rd to E. 78th Sts...	1,240.30	221.48
524. Buchanan St., Central Ave. to Fessen- den St.	34.47	
530. E. 82nd St. and 62nd Ave.....	733.95	
533. E. 42nd and Holman Sts.....	2,610.75	28.80
536. Fiske St. and Private Property.....	2,270.60	3.55
545. E. 64th St. and 25th Ave.....	77.85	
546. Killingsworth Ave. and E. 37th St.....	13,136.70	704.53
580. 55th Ave. and 67th St.....	64,129.55	19.76
Marguerite Ave. and Private Property.	2,049.14	
Blk. 6, Ridgemont and E. Burnside St...	639.44	
Patton Rd., Brentwood Park to Old Orchard Rd.	1,652.17	
Leonard St., Chicago to Burlington Sts.	713.27	
Stanton St. and Glenn Ave.....	3,235.17	
	\$ 1,603,477.23	\$ 9,675.69

WARRANTS OUTSTANDING AND BALANCES IN THE PAVING FUND
NOVEMBER 30, 1928

Ledger No. 4 Page	Warrants Outstanding	Balances
23. E. 26th St., Prescott to Alberta Sts.....	\$ 421.80	
65. E. 75th St., Everett to Glisan Sts.....	73.28	
77. Bryant and Missouri Ave.....	2.87	
78. E. 53rd St., Hassalo to Halsey Sts.....	22.45	
87. E. 16th St., Marion to Linn Ave.....	43.71	\$ 9.99
91. Clatsop Ave., E. 17th to 19th Sts.....	1,045.26	
93. Multnomah and E. 27th Sts.....	72.03	51.65
147. Fremont St., Williams to E. 8th St.....	119.86	9.71
148. Overlook Blvd., et al.....	80.20	
153. 41st St. S. E., Woodstock to 45th Aves..	348.83	
155. Albina Ave., Ainsworth to Lombard....	463.03	224.00
	\$ 2,693.32	\$ 295.35

WARRANTS OUTSTANDING AND BALANCES IN THE STREET
EXTENSION FUND NOVEMBER 30, 1928

Ledger No. 5 Page	Warrants Outstanding	Balances
890. Corbett St. et al District 40.....	\$ 147.19	\$ 244.73
901. E. Couch St., E. 47th to 50th Sts.....	100.00	100.83
905. E. 75th St., 40th Ave. to 45th Ave.....	.....	150.52
910. Lombard St., Swinton to Vancouver Ave.	990.90	996.98
916. 29th Ave., E. 52nd St. to 824 ft. East....	1.00	1.00
920. Delay St., Larrabee to Russell Sts.....	4.40	4.40
950. Ladd Ave. et al.....	1,053.47	1,053.95
954. Glisan St., 3rd to 4th Sts.....	.....	30.20
968. E. Grant St., Kenilworth to E. 30th St..	13.70	13.70
970. Burnside St., Willamette R. to 3rd St...	.....	706.72
979. 38th Ave. et al.....	472.30	472.30
E. 17th St., South to Harold Ave.....	232.50	367.97
913. Holman St. to City Limits.....	110.00	110.00
990. Powell St. et al.....	211.12	462.17
Ledger No. 6 Page		
800. 4th St. (So.).....	150.00	
E. 27th St., Portland Hts. to Ellsworth Ave.	117.80	117.80
E. 17th St., Midway to Yukon Ave.....	16.50	16.50
E. Burnside and Gilham Ave.....	47.50	630.26
Kellogg Street .....	.....	50.40
802. New St., Bancroft Ave. to Portland Homestead	375.00	375.00
803. E. 28th St., Brooklyn to Woodward Ave.	.....	13.51
804. Morris St., E. 70th to 72nd Sts.....	.....	1.37
810. 3rd St. et al, District 46.....	499.75	504.58
801. E. Burnside St., E. 44th to E. 55th Sts...	.....	31.74
805. E. 38th St., Holman to Oregon Sts.....	.....	228.70
806. Lovejoy St., Change of Grade.....	25.00	25.00
811. E. Glisan St., E. 16th to Sandy Blvd....	37.50	4,680.87
E. 52nd St., 29th Ave. to Division St....	.....	861.69
812. Arthur St., 2nd to 3rd Sts.....	.....	9.33
814. Foster Rd., E. 72nd St. to City Limits...	.....	50.00
840. E. Broadway et al, District 45.....	10,245.10	10,703.86
849. Bryant St., Union to E. 8th St.....	.....	17.54
850. Interstate Ave., Change of Grade.....	537.30	760.74
858. E. Burnside et al District 41.....	1,070.50	1,544.43
866. Woodstock Ave., E. 69th St. to E. 100th St.	6,513.00	6,670.98
878. E. 72nd St., Slumans Add. to E. Alder St.	.....	554.10
879. E. Burnside St. et al.....	2,525.00	5,113.91
892. Vancouver Ave., Change of Grade.....	.....	2,556.31
	\$ 25,496.53	\$ 40,234.09

TRIAL BALANCE GENERAL LEDGER NO. 19 NOVEMBER 28, 1928

City of Portland.....	\$45,839,505.40	
General bonds.....		\$11,612,000.00
Dock bonds.....		8,550,000.00
Wated bonds.....		18,482,000.00
Improvement bonds.....		6,522,992.74
Improvement bonds of the former Town of Linnton.....		54,649.37
Street lighting improvement bonds.....		573,708.69
Public utility certificates.....		155,000.00
Street and sewer warrants.....	106,575.40	
United States Nat'l Bank Trust Fund.....	1,140.50	
The Portland Prosperity Fund.....		1,140.50
Wm. Adams, Treasurer, general account.....	2,828,200.15	
Commissioner of Public Safety.....	2,050.00	
Bureau of Police.....	850.00	
Commissioner of Finance.....	125.00	
Commissioner of Public Affairs.....	50.00	
Commissioner of Public Utilities.....	425.00	
Commissioner of Public Works.....	100.00	
Bureau of Water Works.....	300.00	
Bureau of Health.....	50.00	
Municipal Store.....	10.00	
Office of City Attorney.....	75.00	
East Moreland Golf Links.....	150.00	
West Hills Golf Links.....	25.00	
Rose City Golf Links.....	50.00	
Public Market.....	10.00	
Wm. Adams, Treasurer, investment account.....	4,107,014.29	
Water Bond Sinking Fund investments.....		2,894,640.00
Sinking Fund investments.....		1,055,954.38
Broadway Bridge Fund investments.....		3,979.55
Lighting Bond Sinking Fund investments.....		152,440.36
Revenue receivable taxes, 1920.....	47,170.73	
Reserve for loss on taxes, 1920.....		47,170.73
Revenue receivable taxes, 1921.....	5,989.63	
Reserves for loss on taxes, 1921.....		5,989.63
Revenue receivable taxes, 1922.....	94,947.86	
Revenue General Fund taxes, 1922.....		17,730.01
Revenue Bonded Indebtedness Interest Fund taxes, 1922.....		2,270.69
Revenue Sinking Fund taxes, 1922.....		1,059.11
Reserve for loss on taxes, 1922.....		73,888.05
Revenue receivable taxes, 1923.....	28,922.68	
Reserve for loss on taxes, 1923.....		28,922.68
Revenue receivable taxes, 1924.....	43,268.26	
Revenue General Fund taxes, 1924.....		5,724.77
Revenue Bonded Indebtedness Interest Fund taxes, 1924.....		566.14
Revenue Sinking Fund taxes, 1924.....		468.55
Revenue Playgrounds and Parks Fund taxes, 1924.....		15.97
Reserve for loss on taxes, 1924.....		36,492.83
Revenue receivable taxes, 1925.....	59,415.24	
Revenue General Fund taxes, 1925.....		17,081.87
Revenue Bonded Indebtedness Interest Fund taxes, 1925.....		2,326.16
Revenue Sinking Fund taxes, 1925.....		1,215.15
Revenue Playgrounds and Parks Fund taxes, 1925.....		468.68
Revenue Special Bridge Fund taxes, 1925.....		260.48
Reserve for loss on taxes, 1925.....		38,062.90
Revenue receivable taxes, 1926.....	58,681.33	
Revenue General Fund taxes, 1926.....		13,953.30
Revenue Bonded Indebtedness Interest Fund taxes, 1926.....		1,973.01
Revenue Sinking Fund taxes, 1926.....		1,226.98

TRIAL BALANCE GENERAL LEDGER NO. 19 NOVEMBER 30, 1928—
Continued

Revenue Playgrounds and Parks Fund taxes, 1926.....		\$ 548.62
Revenue Special Bridge Fund taxes, 1926.....		74.74
Reserve for loss on taxes, 1926.....		40,904.68
Revenue receivable taxes, 1927.....	\$ 340,636.12	
Revenue General Fund taxes, 1927.....		236,856.40
Revenue Bonded Indebtedness Interest Fund taxes, 1927.....		16,086.70
Revenue Sinking Fund taxes, 1927.....		11,217.21
Revenue Playgrounds and Parks Fund taxes, 1927.....		5,196.40
Revenue Special Bridge Fund taxes, 1927.....		8,314.24
Revenue Firemen's Salary Increase Fund taxes, 1927.....		7,042.43
Revenue Policemen's Salary Increase Fund taxes, 1927.....		5,153.46
Reserve for loss on taxes, 1927.....		50,769.28
Revenue receivable taxes, 1928.....	714,919.15	
Revenue General Fund taxes, 1928.....		449,777.70
Revenue Bonded Indebtedness Interest Fund taxes, 1928.....		64,546.23
Revenue Sinking Fund taxes, 1928.....		49,318.81
Revenue Playgrounds and Parks Fund taxes, 1928.....		27,355.97
Revenue Special Bridge Fund taxes, 1928.....		20,637.25
Revenue Firemen's Salary Increase Fund taxes, 1928.....		29,334.66
Revenue Policemen's Salary Increase Fund taxes, 1928.....		21,660.36
Reserve for loss on taxes, 1928.....		52,288.17
Chief of Police.....	159.59	
Fugitive Fund.....		159.59
Sinking Fund loans.....	1,100.00	
Improvement Bond Sinking Fund, Linnton loans.....		1,100.00
Municipal Paving Rotary Fund loans.....	34,000.00	
Sidewalk rotary account loans.....	7,000.00	
Engineering rotary account loans.....		16,837.02
General Fund loans.....	353,582.45	
Public Auditorium Fund loans.....		61,325.00
Firemen's Salary Increase Fund loans.....		17,476.51
Policemen's Salary Increase Fund loans.....		14,649.92
Extension of Glisan St. loans.....		397.30
Extension of 38th Ave. et al loans.....		42.90
Extension of Ladd Ave. loans.....		869.00
Improvement E. 16th St., Killingsworth to Ainsworth Aves. loans.....		204.10
Water Fund loans.....	200,000.00	
Water Construction Fund loans.....		400,000.00
Eastmoreland Golf Fund loans.....		8,000.00
Extension of Salmon St. loans.....		930.70
Special Bridge Fund loans.....	22,304.00	
Elimination grade crossing Lovejoy St. loan.....		22,304.00
Extension of E. Glisan St. loans.....		300.00
Widening Foster Road loans.....		3,550.00
Playgrounds and Parks Fund loans.....		10,000.00
Fire Department Construction Fund loans.....		60,000.00
General Fund.....	556,450.97	
Appropriation General Fund.....		781,168.01
Appropriation expense Office of City Attorney.....		250.00
Appropriation expense Bureau of Police.....		4,110.02
Appropriation expense division rotary.....		1,901.39
Appropriation nuisance Municipal Reference Library.....		6.87
Appropriation expense Municipal Reference Library.....		3,272.96
Appropriation stationery rotary account.....		27,000.00
Appropriation stores rotary account.....		

TRIAL BALANCE GENERAL LEDGER NO. 19 NOVEMBER 30, 1928—
Continued

Appropriation garage rotary account.....		\$ 1,388.46
Appropriation expense Bureau of Parks.....		366.39
Appropriation expense Bureau of Street Cleaning.....		240.00
Appropriation expense Bureau of Fire.....		130.91
Appropriation Municipal Shop rotary account.....		3,005.26
Appropriation expense Department of Public Works.....		1,115.97
Appropriation engineering rotary account.....		3,519.10
Appropriation expense water front improve- ment.....		6,088.21
Appropriation sidewalk rotary account.....		1,587.67
Appropriation maintenance stock rotary ac- count.....		56.05
Appropriation tuberculin rotary account.....		1,091.33
Appropriation expense Planning Commission.....		477.15
Appropriation expense annual audit.....		2,000.00
Appropriation expense auditing P. E. F. Co..		18,000.00
Appropriation expense codifying ordinances..		5,674.00
Appropriation expense Electrical Examiners.....		60.00
Appropriation expense of election.....		5,610.30
Appropriation payment of temporary loans..		465,000.00
Appropriation expense printing annual report.....		3,500.00
Appropriation expense printing codes.....		214.31
Appropriation expense removal of snow and ice.....		500.00
Appropriation expense telephone franchise..		43.90
Bonded Indebtedness Interest Fund.....		238,087.17
Appropriation Bonded Indebtedness Interest Fund.....	\$ 7,658.50	
Appropriation payment of interest.....		7,658.50
Sinking Fund.....		450,649.32
Playgrounds and Parks Fund.....		21,328.44
Appropriation Playgrounds and Parks Fund..	16,947.82	
Appropriation purchase and improvement of playgrounds and parks.....		17,194.64
Special Bridge Fund.....		22,000.79
Appropriation Special Bridge Fund.....	105,264.34	
Appropriation cost of fills and construction of bridges.....		105,258.24
Public Auditorium Fund.....		2,585.12
Fire Department Construction Fund No. 2..		85,675.79
Appropriation Fire Department Construction Fund No. 2.....	39,984.79	
Appropriation construction of firehouses No. 2.....		39,984.79
Parks and Boulevard Construction Fund.....		2,082.60
Appropriation Parks and Boulevard Con- struction Fund.....	1,628.24	
Appropriation construction and improvement parks and boulevards.....		1,628.24
Water Fund.....		280,144.20
Appropriation Water Fund.....	15,700.00	
Appropriation expense Bureau Water Works.....		190.00
Appropriation payment of interest on water bonds.....		15,510.00
Water Bond Sinking Fund.....		289,732.60
Redemption Fund.....		2,897.60
Assessment Collection Fund.....		37,824.31
Women's Detention Home Fund.....		1,038.76
Municipal Paving Rotary Fund.....		55,922.69
Appropriation Municipal Paving Rotary Fund.....	7,889.69	
Appropriation paving rotary account.....		7,889.69
Eastmoreland Golf Fund.....		6,959.86
Appropriation Eastmoreland Golf Fund.....	2,071.53	

TRIAL BALANCE GENERAL LEDGER NO. 19 NOVEMBER 30, 1928—
Continued

Appropriation Eastmoreland rotary account.....		\$ 2,071.53
West Hills Golf Fund.....		1,584.95
Rose City Golf Fund.....		3,714.36
Auto Camp Fund.....		2,671.76
Appropriation Auto Camp Fund.....	\$ 681.54	
Appropriation Improvement of Auto Camps..		681.54
Garbage Crematory Fund.....		10,363.40
Appropriation Garbage Crematory Fund.....	9,257.85	
Appropriation construction of Crematory....		9,257.85
U. S. Grant Property Sales Fund.....		7,743.61
Appropriation U. S. Grant Property Sales Fund.....	3,016.99	
Appropriation expense sale of property.....		3,016.99
Water Construction Fund.....		143,326.88
Appropriation Water Construction Fund....	76,838.84	
Appropriation construction and extension of water mains.....		76,838.84
Broadway Bridge Fund.....		5,394.22
Civic Emergency Fund.....		848.86
Nellie Robinson Fund.....		389.12
Appropriation Nellie Robinson Fund.....	245.73	
Appropriation expense installing fountains..		245.73
Mt. Hood Railway & Power Co. Street Repair Fund.....		1,000.00
Bridge Access Fund.....		10,311.55
Appropriation Bridge Access Fund.....	10,270.74	
Appropriation expense access to bridges....		10,270.74
Bridge Access Fund No. 2.....		59,671.62
Appropriation Bridge Access Fund No. 2..	324,887.64	
Appropriation expense access to bridges No. 2.....		324,887.64
Fire Boat and Fire Main Fund.....		122.71
Health Teachers' Fund.....		1,431.36
Firemen's Salary Increase Fund.....		12,735.59
Policemen's Salary Increase Fund.....		9,393.22
Utility Election Fund.....		202.90
Trustees' Fund.....		22,337.60
Paving Fund.....		295.35
Street Improvement Fund.....		47,427.15
Sewer Fund.....		9,675.69
Street Extension Fund.....		40,234.09
Street and Sewer Interest Fund.....		1,395.14
Improvement Bond Sinking Fund.....		123,770.47
Improvement Bond Interest Fund.....		17,665.00
Improvement Bond Sinking Fund, Linnton...		4.79
Improvement Bond Sinking and Interest Fund.....		200.79
Lighting Bond Sinking Fund.....		7,875.45
Lighting Bond Interest Fund.....		8,315.26
Franchises.....		6,072.60
Franchise Portland Electric Power Co.....		121.00
Franchise Heights Trust Co.....		4,190.00
Franchise Erroll Heights Railway Co.....		1,761.60
Wm. Adams, Treasurer, security account....	4,067,750.38	
American Exchange Bank.....		164,000.00
Bank of California.....		550,000.00
Brotherhood Co-operative National Bank....		65,000.00
Geo. W. Bates & Co., Bankers.....		15,000.00
Bank of Sellwood.....		25,000.00
Bank of Kenton.....		25,000.00
Citizens Bank.....		109,500.00
Canadian Bank of Commerce.....		100,000.00
First National Bank.....		1,052,000.00
First National Bank of Linnton.....		30,000.00

TRIAL BALANCE GENERAL LEDGER NO. 19 NOVEMBER 30, 1928—
Continued

Hibernia Commercial & Savings Bank.....	\$ 115,000.00
Montavilla Savings Bank.....	29,300.00
Multnomah State Bank.....	14,000.00
Mt. Scott State Bank.....	19,500.00
Northwestern Electric Co.....	2,000.00
Oregon State Bank.....	25,000.00
Peninsula National Bank of St. Johns.....	165,950.38
Portland National Bank.....	104,500.00
Security Savings & Trust Co.....	103,000.00
U. S. National Bank.....	1,003,000.00
West Coast National Bank.....	331,000.00
Union State Bank.....	20,000.00
	<hr/>
	\$60,151,420.97
	\$60,151,420.97

DETAILED STATEMENT OF LICENSE RECEIPTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928

	December		January		February		March		April		May		
	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	
Abstractors.....	2	7.50	4	15.00	2	7.50	2	11.25	9	37.50	1	3.75	
Amusement Parks.....			2	100.00						1	100.00	2	340.00
Auction Houses.....			3	480.00									
Auto Dealers, Garages, etc.....	102	510.00	296	1,480.00	100	507.50	130	704.50	116	587.50	42	210.00	
Autos for Hire.....	9	310.00	30	1,731.10	5	39.40	1	5.00	35	1,920.35	8	41.42	
Awning Manufacturers.....	5	500.00	1	100.00	5	131.24	5	200.00	10	302.66	5	175.48	
Banks.....	2	120.00	5	225.08	5	13.35	3	113.35	4	40.00	1	6.65	
Baths and Massages.....	1	7.50	6	45.00	2	13.35	3	113.35	4	40.00	1	6.65	
Bill Posters and Distributors.....	5	113.40	2	210.00									
Bowling Alleys.....			2	210.00									
Auto Wrecking Yards.....			47	406.84	93	890.00	23	294.78	82	470.00	4	30.00	
Brokers, General.....	43	335.00											
Brokers, Stocks on Margin.....			33	495.00	7	105.00	9	135.00	4	60.00	1	15.00	
Brokers, Business Chance.....	5	75.00	3	600.00									
Card Rooms.....	36	3,220.00	5	15.00									
Chainey Sycops.....	1	5.00	3	15.00	42	181.50	46	208.50	57	240.00	30	131.50	
Cleaning, Dyeing and Pressing.....	30	157.50	86	364.50	11	45.00	3	45.00	2	30.00	2	30.00	
Collection Agencies.....	1	15.00	30	450.00	12	51.00	10	60.25	130	292.25	105	124.00	
Dance Halls.....	18	83.00	39	187.75	148	147.00	140	150.00	130	292.25	105	124.00	
Dancing Permits.....	183	308.00	174	322.00									
Detective Agencies.....	1	100.00	4	400.00	1	5.00	1	5.00	12	120.00	16	160.00	
Dog Breeders.....	19	152.50	1	10.00	9	90.00	16	160.00					
Temporary Auction.....													
Building Contractor.....			2	600.00									
Electric Light and Power.....			1	300.00	1	20.00							
Express Service.....			1	20.00	1	20.00	1	25.00					
Explosives.....			3	75.00									
Firearms and Weapons.....	546	2,852.50	1871	11,209.50	826	4,947.00	302	1,804.50	111	666.00	108	625.50	
Food Products.....			1	300.00									
Fumigators.....			1	300.00									
Gas for Light and Fuel.....			1	300.00									
Gasoline Service Stations.....	117	1,763.00	306	6,850.00	74	1,779.00	92	1,760.00	73	1,499.00	20	379.00	

DETAILED STATEMENT OF LICENSE RECEIPTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

	December		January		February		March		April		May	
	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received
Hawkers, Class No. 1.....	2	\$ 300.00	6	700.00	2	\$ 350.00			5	\$ 750.00		
Hawkers, Class No. 2.....	11	550.00	11	550.00					10	800.00		
Hawkers, Class No. 5.....	1	50.00	30	78.00	7	14.00	2	4.00	6	12.00		
Hospitals.....	21	42.00	30	860.00	41	225.00	47	235.00	19	95.00	6	\$ 30.00
Hotels and Rooming Houses.....	47	235.00	172	860.00	1	10.00	1	10.00	3	45.00	1	10.00
House Movers.....	5	37.50	46	345.00	7	52.50	7	112.50	54	402.50	7	52.50
Junk Wagons.....	15	172.50	29	262.50	8	157.50	1		25	270.00	8	97.50
Laundries.....	1	12.50	3	62.50					2	50.00	1	12.50
Mercantile Rating Agencies.....	1	100.00										
Messenger Service.....					65	325.00	11	55.00	14	70.00	1	5.00
Mud Yards.....			10	25.00	2	2.50	3	7.50	4	10.00	1	2.50
Milk and Cream, Cans or Carts.....			18	440.00	17	782.50	16	480.00	57	2,500.00	10	230.00
Milk and Cream, Dairy Wagons.....			3	1,018.67	1	20.00	1	1,032.00	2	202.00	1	26.67
Motor Busses.....			4	63.00					6	163.00		
Oil Storage.....			6	500.00	1	30.00	1	140.00	9	720.00		
Oil Delivery Trucks.....	1	30.00	6	500.00	5	375.00	1	75.00	1	75.00	2	150.00
Pawnbrokers.....	2	150.00	5	375.00	7	350.00	1	3.00	5	250.00	3	150.00
Peddlers, Class 1, A & B.....	3	120.00	74	2,960.00	20	800.00	10	400.00	7	280.00	10	400.00
Peddlers, Class 2.....			4	75.00	2	37.50	3	37.50	2	22.50	1	8.75
Peddlers, Class 3, B.....	2	16.25	4	75.00	6	90.00	13	165.00	11	165.00	2	10.00
Peddlers, Class 4.....	1	5.00										
Outdoor Advertising.....	12	60.00	1	10.00	11	55.00	12	36.55	11	55.00	1	5.00
Photographers & Solicitors.....	16	160.00	96	960.00	33	330.00	16	160.00	3	30.00	3	30.00
Plumbers.....	4	160.00	4	160.00	1	100.00	1	100.00	1	100.00	1	100.00
Professional Intelligence.....	1	100.00	1	100.00	4	90.00	1	20.00	1	20.00	1	140.00
Pool and Billiard Rooms.....	30	1,660.00	54	1,250.00	1	25.00						
Roller Skating.....			1	10.00					1	25.00		
Rheumatology Practice.....			1	10.00					1	20.00		
Safe Deposit Vaults.....	8	50.00	120	661.00	3	15.00	6	35.00	1	10.00	1	20.00
Scavengers.....	23	172.50	117	1,012.50	59	492.50	19	202.50	114	892.50	2	10.00
Second-hand.....												420.00

DETAILED STATEMENT OF LICENSE RECEIPTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

	December		January		February		March		April		May	
	No. Issued	Amount Received	pen- sions	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received
Shooting Galleries.....			2	\$ 50.00								
Shows and Exhibits.....	1	5.00	3	15.00	4	20.00	1	5.00	1	5.00		
Social Clubs.....	2	20.00	3	30.00	1	10.00	1	10.00				
Soft Drinks, Class B.....			4	8.00	2	4.00	2	4.00	7	16.00	1	4.00
Solicitors.....			12	122.40	8	40.00	4	41.30	24	186.40	18	138.50
Stables.....	13	110.00	1	500.00					1	1,525.00		
Storage.....			1	300.00								
Street Railway Cars.....	2	600.00	1	500.00								
Street Railway Advertising.....	32	787.60	30	585.72	1	13.00	31	869.86	31	607.12		
Telephone and Telegraph System.....			1	40.00								
Theatres.....			1	100.00	1	3.00						
Theatrical Booking Agents.....	3	190.00	2	100.00	1	50.00	1	50.00	1	50.00	1	50.00
Transfer Men.....	8	630.00	8	190.00	7	140.00	2	40.00	3	140.00	1	50.00
Vending Machines.....	2	40.00	17	340.00					4	80.00	6	120.00
Wharfmen.....												
Woodsmen.....												
Sewer Men.....												
Totals—General.....	1385	\$ 16,050.75	3869	\$ 43,513.06	1675	\$ 14,118.49	1013	\$ 10,502.46	1240	\$ 17,812.53	518	\$ 4,556.72
Male Dogs.....	249	\$ 747.00	375	\$ 1,125.00	318	\$ 954.00	261	\$ 783.00	183	\$ 354.00	233	\$ 373.75
Female Dogs.....	30	150.00	41	205.00	36	180.00	34	170.00	30	100.00	60	167.50
Totals—Dogs.....	279	\$ 897.00	416	\$ 1,330.00	354	\$ 1,134.00	295	\$ 953.00	213	\$ 454.00	293	\$ 541.25
Grand Totals.....	1664	\$ 16,947.75	4285	\$ 44,843.06	2029	\$ 15,252.49	1308	\$ 11,455.46	1453	\$ 18,266.53	811	\$ 5,097.97

DETAILED STATEMENT OF LICENSE RECEIPTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928--Continued

	June		July		August		September		October		November		Totals	
	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received
Abstractors	1	\$ 300.00	7	\$ 25.25	3	\$ 11.25	1	\$ 3.75	6	\$ 22.50			37	\$ 146.25
Amusement Parks							1	150.00					7	900.00
Auction Houses	20	100.00	7	35.00	15	75.00	11	55.00	5	25.00			3	480.00
Auto Dealers, Garages, etc	11	179.75	38	2,269.40	2	10.68	4	51.40	34	1,852.55	6	\$ 30.00	869	4,319.50
Autos for Hire													11	106.09
Awning Manufacturers													8	800.00
Banks													57	2,180.47
Baths and Massage	1	7.50	3	328.68	5	70.64	2	71.71	11	418.36	1	7.50	23	170.00
Bill Posters and Distributors	4	113.40	2	50.00	2	12.50	1	7.50	4	30.00	1	6.65	26	646.80
Bowling Alleys													4	420.00
Auto Wrecking Yards	1	7.50	5	37.50	2	20.00	1	7.50	6	45.00	3	45.00	22	192.50
Brokers, General	8	60.00	82	460.45	34	195.00	5	30.00	68	355.00	14	75.00	525	3,732.07
Brokers, Stocks on Margin													3	150.00
Brokers, Business Chance													71	1,065.00
Card Rooms													41	3,820.00
Chimney Sweeps													6	30.00
Cleaning, Dyeing and Pressing	9	39.00	64	229.50	58	245.00	2	10.00	11	51.00	13	60.00	496	2,133.00
Collecting Agencies	3	45.00	2	30.00	2	30.00	2	30.00	6	42.00	6	42.00	63	897.00
Dance Halls	1	3.25	3	22.00	6	25.50	7	35.00	5	19.25	6	19.50	110	516.25
Dancing Permits	46	90.00	41	180.00	25	16.00	62	85.00	150	293.00	148	154.00	1332	2,161.25
Detective Agencies													5	600.00
Dog Breeders													12	63.00
Temporary Auction	7	67.50	11	110.00	13	130.00	7	70.00	24	225.00	40	340.00	175	1,635.00
Building Contractor	176	880.00	387	1,355.00	63	315.00	6	30.00	6	30.00	2	10.00	640	3,200.00
Electric Light and Power													1	300.00
Express Service													2	40.00
Explosives													1	300.00
Firearms and Weapons													2	125.00
Food Products	104	615.00	94	519.00	83	480.00	61	355.50	64	375.00	77	295.50	4247	24,742.00
Fumigators	1	7.50											5	22.50
Gas for Light and Fuel													3	22.50
Gasoline Service Stations	19	302.00	17	243.00	6	88.00	9	72.00	33	269.00	20	76.00	786	15,080.00

DETAILED STATEMENT OF LICENSE RECEIPTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928--Continued

	June		July		August		September		October		November		Totals	
	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received
Hawkers, Class No. 1			5	\$ 750.00					6	\$ 900.00			24	\$ 3,400.00
Hawkers, Class No. 2	3	6.00	11	550.00					8	650.00			42	2,900.00
Hawkers, Class No. 5	6	30.00	41	82.00	9	18.00	4	18.00	3	6.00	1	\$ 50.00	2	100.00
Hospitals													131	280.00
Hotels and Rooming Houses	1	7.50	3	60.00	6	30.00	4	20.00	4	20.00	5	25.00	361	1,825.00
House Movers	1	7.50	58	450.00	9	67.50	1	7.50	58	435.00	4	30.00	10	145.00
Junk Wagons	4	45.00	20	172.50	13	127.50	8	105.00	23	187.50	6	45.00	251	1,888.50
Laundries													169	1,768.00
Mercantile Rating Agencies													13	262.50
Messenger Service	2	10.00	1	100.00	1	12.50	1	100.00	2	200.00	3	15.00	103	900.00
Fuel Yards	3	7.50	2	10.00	3	7.50	2	10.00	3	7.50	1	2.50	28	97.50
Milk and Cream, Cans or Carts	12	7.50	2	5.00	4	80.00	3	60.00	4	1,297.50	1	4,922.50	144	4,922.50
Milk and Cream, Dairy Wagons	1	1,072.00	7	140.00	2	171.00	1	20.00	3	60.00	1	489.84	15	489.84
Motor Busses	2	80.00	10	140.00	3	156.65	1	130.00	9	670.00	2	148.00	21	486.00
Oil Delivery Trucks	1	75.00	6	450.00	3	225.00	1	75.00	1	75.00	2	150.00	43	3,126.65
Oil Storage	2	80.00	2	80.00	6	240.00	2	80.00	2	80.00	2	150.00	30	2,250.00
Pawnbrokers													21	955.00
Peddlers, Class 1, A & B	6	300.00	1	5.00	1	5.00	2	100.00	4	200.00	4	200.00	20	487.50
Peddlers, Class 2	5	895.02	6	691.63	4	400.00	9	817.00	2	8.75	5	200.00	42	1,038.75
Peddlers, Class 3, B	2	6.35	5	20.00	3	11.70	9	350.00	2	125.00	2	125.00	31	2,979.25
Peddlers, Class 4	2	20.00	4	40.00	1	10.00	9	45.00	5	23.35	5	23.35	72	327.05
Outdoor Advertising													174	1,740.00
Photographers & Solicitors													10	376.75
Printers													6	600.00
Professional Intelligence	18	495.00	51	1,405.00	9	295.00	3	80.00	1	100.00	1	45.00	175	4,920.00
Professional Bondmen													4	100.00
Pool and Billiard Rooms													1	50.00
Roller Skating													1	120.00
Phrenology Practice													9	50.00
Safe Deposit Vaults	6	30.00	139	700.00	1	10.00	3	15.00	2	20.00	1	5.00	587	2,996.00
Savengers	11	90.00	108	832.50	63	525.00	8	70.00	91	690.00	27	202.50	695	5,402.50
Second-hand													1	300.00

DETAILED STATEMENT OF LICENSE RECEIPTS FOR FISCAL YEAR ENDING NOVEMBER 30, 1928—Continued

	June		July		August		September		October		November		Totals	
	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received	No. Issued	Amount Received
Shooting Galleries.....														
Shows and Exhibits.....														
Social Clubs.....														
Soft Drinks, Class B.....														
Solicitors.....														
Stables.....	1	2.00												
Storage.....	2	41.00	10	40.90	6	27.50	20	178.00	11	54.50	2	5.00	4	6,123.00
Street Railway Cars.....			1	1,525.00										
Street Railway Advertising.....														
Telephone and Telegraph System.....														
Theatres.....	23	621.56	38	713.44	1	36.05	27	731.68	36	716.41	1	6.65	250	5,692.44
Theatrical Booking Agents.....														
Supervising Plumber.....	95	190.00	110	220.00	7	14.00	5	10.00	2	4.00			219	498.00
Transfer Men.....														
Vending Machines.....	1	50.00	1	50.00	3	270.00	1	50.00	5	160.00			10	540.00
Wharfingers.....	7	140.00	7	140.00	9	180.00	7	140.00	2	40.00			36	1,900.00
Woodsmen.....	2	2.00	2	2.00										
Sewer Men.....														
Totals—General.....	624	\$ 7,053.93	1450	\$17,504.25	492	\$ 4,911.22	364	\$ 4,096.89	903	\$13,829.32	415	\$ 2,290.24	13948	\$156,239.86
Male Dogs.....	173	\$ 246.75	162	\$ 186.50	154	\$ 371.00	2941	\$ 8,804.00	1105	\$ 3,315.00	354	\$ 1,062.00	6508	\$18,322.00
Female Dogs.....	85	\$ 85.50	36	\$ 77.50	18	\$ 64.50	230	\$ 1,152.50	125	\$ 625.00	35	\$ 175.00	710	\$ 3,152.50
Totals—Dogs.....	208	\$ 332.25	198	\$ 264.00	172	\$ 435.50	3171	\$ 9,956.50	1230	\$ 3,940.00	389	\$ 1,237.00	7218	\$21,474.50
Grand Totals.....	832	\$ 7,386.18	1648	\$17,768.25	664	\$ 5,346.72	3535	\$14,053.39	2133	\$17,769.32	804	\$ 3,527.24	21166	\$177,714.36

THE BONDED INDEBTEDNESS OF THE CITY OF PORTLAND, OREGON, NOVEMBER 30, 1928, AND THE INTEREST DUE, PAID AND OUTSTANDING

When Issued	Year Due	Term Years	Rate of Int. %	Purpose of Issue	Amount of Bonds	Interest Coupons Outstanding Nov. 1, 1927	Interest Due	Interest Paid	Interest Coupon Outstanding Nov. 30, 1928
GENERAL BONDS									
Dec. 1, 1898	1928	30	5	Funding Floating Debt	\$ 430,000.00	\$ 275.00	\$ 21,500.00	\$ 21,775.00	
May 1, 1903	1928	25	4	To Redeem Outstanding Bonds	56,500.00		1,130.00	1,130.00	
Nov. 1, 1911	1941	30	4	Construction of Jail	200,000.00	360.00	8,000.00	7,620.00	\$ 740.00
Mar. 1, 1927	Ser. 1937	10	4½	Police Traffic Signal System	100,000.00		4,500.00	4,447.50	22.50
July 1, 1911	1936	25	4	Construction of Fireboat	125,000.00		5,000.00	5,000.00	
Aug. 1, 1924	1949	25	5	Construction of Fire Marsh	3,500.00		140.00	140.00	
Feb. 1, 1919	1929	10	5	Purchase of Property—Delinquent Ass'ts	500,000.00		25,000.00	25,000.00	
July 1, 1926	1948	20	4½	Purchase of Property—Delinquent Ass'ts	297,000.00		13,365.00	13,365.00	
Apr. 1, 1923	1948	20	4	Purchase of Property—Delinquent Ass'ts	50,000.00		2,000.00	2,000.00	
May 1, 1928	1948	12	4	Purchase of Property—Delinquent Ass'ts	100,000.00		4,000.00	4,000.00	
Oct. 1, 1927	1948	25	4	Construction of Property	30,000.00		1,200.00	1,200.00	
Aug. 1, 1919	Ser. 1939	25	4	Construction of Crematory	125,000.00		5,000.00	5,000.00	1,905.00
Dec. 1, 1920	Ser. 1940	20	5	Construction of Fire Houses	36,000.00		1,750.00	6,200.00	
Mar. 1, 1921	Ser. 1941	20	5	Construction of Fire Houses	21,000.00		1,025.00	8,475.00	25.00
Sept. 1, 1921	Ser. 1941	20	5	Construction of Fire Houses	23,000.00		1,150.00	4,550.00	
Oct. 1, 1923	Ser. 1943	20	5	Construction of Fire Houses	91,000.00		4,550.00	20,160.00	
May 1, 1928	Ser. 1938	10	4½	Purchase of Fire Equipment	335,000.00		15,075.00	20,160.00	1,215.00
Feb. 1, 1928	Ser. 1938	10	4½	Purchase of Fire Equipment	224,000.00		5,040.00	24,120.00	
Dec. 1, 1913	1943	30	4	Construction of Auditorium	505,000.00		22,600.00	24,120.00	60.00
Mar. 1, 1916	1946	30	4	Construction of Auditorium	505,000.00		22,600.00	24,120.00	
NEW WATER BONDS									
Jan. 1, 1909	1934	25	4	Const'n of Add. Pipe Line and Pur. of Prop.	\$ 250,000.00	\$ 380.00	\$ 10,000.00	\$ 50,160.00	\$ 220.00
June 1, 1910	1935	25	4	Const'n of Add. Pipe Line and Pur. of Prop.	500,000.00		20,000.00	20,000.00	
Sept. 1, 1910	1935	25	4	Const'n of Add. Pipe Line and Pur. of Prop.	500,000.00		20,000.00	50,000.00	
					\$1,250,000.00	\$ 380.00	\$ 50,000.00	\$ 50,000.00	\$ 220.00

THE BONDED INDEBTEDNESS OF THE CITY OF PORTLAND, OREGON, NOVEMBER 30, 1928, AND THE INTEREST DUE, PAID AND OUTSTANDING—Continued

When Issued	Year Due	Term Years	Rate of Int. %	Purpose of Issue	Amount of Bonds	Interest Coupons Outstanding Dec. 1, 1927	Interest Due	Interest Paid	Interest Coupons Outstanding Nov. 30, 1928
BRIDGE BONDS									
Jan. 1, 1904	1934	30	4	Construction of Morrison St. Bridge.....	\$ 400,000.00		\$ 16,000.00		
Jan. 1, 1909	1939	30	4	Construction of Hawthorne Bridge.....	450,000.00		18,000.00		
Jan. 1, 1909	1939	30	4	Construction of Broadway Bridge.....	250,000.00		10,000.00		
Jan. 2, 1911	1941	30	4	Construction of Broadway Bridge.....	500,000.00	\$ 5,580.00	20,000.00	\$ 102,840.00	\$ 5,620.00
Sept. 1, 1911	1941	30	4	Construction of Broadway Bridge.....	600,000.00		24,000.00		
Oct. 1, 1912	1942	30	4	Construction of Broadway Bridge.....	315,000.00		12,600.00		
June 1, 1913	1943	30	4	Construction of Broadway Bridge.....	52,000.00		2,080.00		
Nov. 1, 1923	1953	30	4	Construction of Broadway Bridge.....	5,000.00		200.00		
BRIDGE ACCESS BONDS									
April 1, 1924	Ser. 1931	7	4½	Access to Bridges.....	\$ 35,000.00		\$ 1,425.00		
May 1, 1925	Ser. 1955	30	4½	Access to Bridges.....	189,000.00		8,392.50		
July 1, 1926	Ser. 1955	30	5	Access to Bridges.....	877,000.00		43,850.00		
Sept. 1, 1926	Ser. 1937	11	4½	Access to Bridges No. 2.....	45,000.00	\$ 215.00	2,025.00	\$ 113,684.00	70.00
Oct. 1, 1926	Ser. 1956	30	4½	Access to Bridges No. 2.....	500,000.00		22,500.00		
July 1, 1927	Ser. 1957	30	4½	Access to Bridges No. 2.....	616,000.00		27,720.00		
Feb. 1, 1928	Ser. 1958	30	4½	Access to Bridges No. 2.....	339,000.00		7,627.50		
Aug. 1, 1928	Ser. 1958	30	4½	Access to Bridges No. 2.....	65,500.00				
PARK AND BOULEVARD BONDS									
Dec. 1, 1908	1933	25	4	Purchase and Imp. of Parks and Boulevards.....	\$ 500,000.00		\$ 20,000.00	\$ 40,000.00	40.00
July 1, 1911	1936	25	4	Purchase and Imp. of Parks and Boulevards.....	250,000.00		10,000.00		
Oct. 1, 1912	1937	25	4	Purchase and Imp. of Parks and Boulevards.....	250,000.00		10,000.00		
Nov. 1, 1919	Ser. 1939	20	5	Purchase of Property.....	380,000.00		19,000.00		
June 1, 1920	Ser. 1940	20	5½	Reconstruction of Parks and Boulevards.....	170,000.00	2,025.00	19,350.00	19,500.00	1,525.00
April 1, 1923	Ser. 1943	20	5½	Reconstruction of Parks and Boulevards.....	134,000.00	25.00	7,180.00	25,025.00	
Oct. 1, 1924	Ser. 1944	20	5	Reconstruction of Parks and Boulevards.....	170,000.00		8,500.00		
					\$1,854,000.00	\$ 2,090.00	\$ 84,000.00	\$ 84,525.00	\$ 1,565.00

THE BONDED INDEBTEDNESS OF THE CITY OF PORTLAND, OREGON, NOVEMBER 30, 1928, AND THE INTEREST DUE, PAID AND OUTSTANDING—Continued

When Issued	Year Due	Term Years	Rate of Int. %	Purpose of Issue	Amount of Bonds	Interest Coupons Outstanding Dec. 1, 1927	Interest Due	Interest Paid	Interest Coupons Outstanding Nov. 30, 1928
FERRY BONDS									
Dec. 1, 1903	1933	30	5	Construction of Free Ferry (Sellwood).....	\$ 15,000.00		\$ 750.00	\$ 750.00	160.00
Jan. 1, 1904	1934	30	4	Construction of Free Ferry (Albina).....	50,000.00	120.00	2,000.00	1,960.00	160.00
					\$ 65,000.00	120.00	2,750.00	2,710.00	160.00
					\$11,754,500.00	\$ 12,412.50	\$ 483,595.00	\$ 494,405.00	\$ 11,602.50
PUBLIC UTILITY CERTIFICATES									
July 1, 1924	Ser. 1935	11	6	Purchase of Golf Links (Eastmoreland).....	\$ 80,000.00		\$ 4,800.00	\$ 5,310.00	
Mar. 15, 1928	Ser. 1936	8	6	Purchase of Golf Links (Eastmoreland).....	16,000.00		480.00		
July 1, 1927	Ser. 1937	10	6	Purchase of Golf Links (Rose City).....	70,000.00		4,200.00	4,200.00	
					\$ 166,000.00	30.00	\$ 9,480.00	\$ 9,510.00	
PUBLIC DOCKS BONDS									
Apr. 1, 1908	1928	20	6	Construction of Dock (St. Johns).....	\$ 60,000.00				
Nov. 1, 1911	1961	50	4½	Purchase and Construction of Public Docks.....	50,000.00				
May 1, 1913	1943	30	4½	Constn. Public Docks and Purc. of Prop.....	1,250,000.00				
Dec. 1, 1913	1943	30	4½	Constn. Public Docks and Purc. of Prop.....	900,000.00				
Oct. 1, 1914	1939	25	4½	Constn. Public Docks and Purc. of Prop.....	100,000.00				
May 1, 1915	1945	30	4½	Constn. Public Docks and Purc. of Prop.....	100,000.00				
Oct. 1, 1917	Ser. 1947	30	4½	Construction of Grain Elevator.....	1,100,000.00				
Oct. 1, 1918	Ser. 1948	30	4½	Construction of Grain Elevator.....	165,000.00				
Jan. 3, 1922	Ser. 1952	30	5	Development of Harbor.....	1,020,000.00				
May 1, 1919	Ser. 1949	30	4½	Development of Harbor.....	823,000.00				
Feb. 2, 1920	Ser. 1950	30	5	Development of Harbor.....	1,650,000.00				
July 1, 1920	Ser. 1950	30	5	Development of Harbor.....	290,000.00				
Nov. 1, 1920	Ser. 1950	30	5	Development of Harbor.....					
Sept. 1, 1922	Ser. 1952	30	4½	Construction of Grain Elevator.....					
					\$8,880,000.00				

Accounts kept by Commission of Public Docks. Not in City's General Books.

THE BONDED INDEBTEDNESS OF THE CITY OF PORTLAND, OREGON, NOVEMBER 30, 1928, AND THE INTEREST DUE, PAID AND OUTSTANDING—Continued

When Issued	Year Due	Term Years	Rate of Int. %	Purpose of Issue	Amount of Bonds	Interest Coupons Outstanding Dec. 1, 1927	Interest Due	Interest Paid	Interest Coupons Outstanding Nov. 30, 1928
WATER BONDS									
May 1, 1915	Ser. 1935	20	5½	Construction of Water System (Linnton)	\$ 31,000.00		1,622.50		
July 1, 1923	Ser. 1933	30	4½	Refunding	2,200,000.00	112.50	98,000.00	1,622.50	90.00
Jan. 1, 1911	1936	25	4	Con. of Add. Pipe Line and Pur. of Prop.	500,000.00		20,000.00	99,022.50	
Mar. 1, 1911	1936	25	4	Con. of Add. Pipe Line and Pur. of Prop.	500,000.00		20,000.00		
Oct. 1, 1911	1936	25	4	Con. of Add. Pipe Line and Pur. of Prop.	500,000.00		20,000.00		
Mar. 1, 1912	1937	25	4	Con. of Add. Pipe Line and Pur. of Prop.	500,000.00		20,000.00		
Nov. 1, 1912	1937	25	4	Con. of Add. Pipe Line and Pur. of Prop.	270,000.00		10,000.00		
June 1, 1913	1938	25	4	Con. of Add. Water Mains and Pur. of Prop.	242,000.00		9,680.00		
Aug. 1, 1913	1938	25	4	Con. of Add. Water Mains and Pur. of Prop.	75,000.00		3,000.00		
Sept. 1, 1913	1938	25	4	Con. of Add. Water Mains and Pur. of Prop.	250,000.00		10,000.00		
Nov. 1, 1913	1938	25	4	Con. of Add. Water Mains and Pur. of Prop.	22,000.00		880.00		
Dec. 1, 1913	1938	25	4	Con. of Add. Water Mains and Pur. of Prop.	285,000.00		11,400.00		
Feb. 2, 1914	1939	25	4	Con. of Add. Water Mains and Pur. of Prop.	175,000.00		7,000.00		
Dec. 1, 1914	1939	25	4	Con. of Add. Water Mains and Pur. of Prop.	135,000.00	23,720.00	5,400.00	618,460.00	15,420.00
Mar. 1, 1915	1940	25	4	Con. of Add. Water Mains and Pur. of Prop.	460,000.00		18,400.00		
April 1, 1915	1941	25	4	Con. of Add. Water Mains and Pur. of Prop.	125,000.00		5,000.00		
April 1, 1917	1942	25	4	Con. of Add. Water Mains and Pur. of Prop.	100,000.00		4,000.00		
Feb. 1, 1919	1944	25	4	Con. of Add. Water Mains and Pur. of Prop.	500,000.00		20,000.00		
July 1, 1921	1946	25	4	Con. of Add. Water Mains and Pur. of Meters	200,000.00		8,000.00		
Dec. 1, 1921	1947	25	4	Con. of Add. Water Mains and Pur. of Meters	300,000.00		12,000.00		
Mar. 1, 1923	Ser. 1953	30	4	Construction and Extension of Water Mains	500,000.00		20,000.00		
Oct. 1, 1923	Ser. 1953	30	4	Construction and Extension of Water Mains	500,000.00		20,000.00		
April 1, 1924	Ser. 1954	30	4	Construction and Extension of Water Mains	1,000,000.00		40,000.00		
May 1, 1924	Ser. 1954	30	4	Purchase of Property	60,000.00		2,400.00		

THE BONDED INDEBTEDNESS OF THE CITY OF PORTLAND, OREGON, NOVEMBER 30, 1928, AND THE INTEREST DUE, PAID AND OUTSTANDING—Continued

When Issued	Year Due	Term Years	Rate of Int. %	Purpose of Issue	Amount of Bonds	Interest Coupons Outstanding Dec. 1, 1927	Interest Due	Interest Paid	Interest Coupons Outstanding Nov. 30, 1928
WATER BONDS—Continued									
Sept. 1, 1924	Ser. 1954	30	4	Construction and Extension of Water Mains	\$1,000,000.00		40,000.00		
Nov. 1, 1924	Ser. 1954	30	4	Construction and Extension of Water Mains	1,500,000.00		60,000.00		
May 1, 1925	Ser. 1955	30	4	Construction and Extension of Water Mains	1,000,000.00		40,000.00		
Oct. 1, 1925	Ser. 1955	30	4	Construction and Extension of Water Mains	500,000.00		20,000.00		
Mar. 1, 1926	Ser. 1956	30	4	Construction and Extension of Water Mains	2,000,000.00		80,000.00		
April 1, 1927	Ser. 1957	30	4	Construction and Extension of Water Mains	1,000,000.00		40,000.00		
Oct. 1, 1927	Ser. 1957	30	4	Construction and Extension of Water Mains	1,000,000.00		40,000.00		
July 1, 1928	Ser. 1958	30	4	Construction and Extension of Water Mains	1,000,000.00		40,000.00		
Total Water Bonds					18,485,000.00	23,832.50	\$ 710,782.50	\$ 719,105.00	\$ 15,510.00
Grand Total					39,285,500.00	36,275.00	\$1,213,857.50	\$1,223,020.00	\$ 27,112.50

Less Bonds Redeemed:
 Fire Department Construction Bonds \$ 9,000.00
 Playground Bonds 20,000.00
 Reconstruction Bonds 28,000.00
 Bridge Access Bonds 29,000.00
 Funding Bonds 56,500.00
 Utility Certificates 11,000.00
 Dock Bonds 330,000.00
 Water Bonds (Linnton) 3,000.00
 Grand Total Bonded Debt \$ 486,500.00
 38,799,000.00

Improvement Bonds outstanding November 30, 1928, issued on account of Street Improvements, Sewers and Street Extensions and not a part of the limitation by law as to indebtedness, \$7,151,350.80.

SUMMARY OF BONDED INDEBTEDNESS NOVEMBER 30, 1928

*General bonded debt.....	\$11,612,000.00	
Dock bonded debt.....	8,550,000.00	
**Water bonded debt.....	18,482,000.00	
Public utility certificates.....	155,000.00	
Improvement bonds.....	7,151,350.80	
Total bonds outstanding.....		\$45,950,350.80
Sinking Funds—		
General bonds, investment account.....	\$ 1,059,933.93	
General bonds, cash account.....	450,649.32	
Dock bonds, investment account.....	930,500.00	
Dock bonds, cash account.....	61,252.76	
Water bonds, investment account.....	2,894,640.00	
Water bonds, cash account.....	289,732.60	
Improvement Bond Sinking Fund, cash account.....	131,650.71	
Improvement Bond Sinking Fund, investment account.....	152,440.36	
		5,970,799.68
Net bonded indebtedness.....		\$39,979,551.12
Payable from General Taxation—		
General bonds.....	\$11,612,000.00	
Less Sinking Fund.....	1,510,583.25	
Net general bonds outstanding.....	\$10,101,416.75	
Payable from Revenue and Taxation—		
Dock bonds.....	\$ 8,550,000.00	
Less Sinking Fund.....	991,752.76	
Net dock bonds outstanding.....	7,558,247.24	
Payable from Water Revenue—		
Water bonds.....	\$18,482,000.00	
Less Sinking Fund.....	3,184,372.60	
Net water bonds outstanding.....	15,297,627.40	
Payable from Assessments Against Private Property and Not a Part of the Limitation by Law as to Indebtedness—		
Improvement bonds.....	\$ 7,151,350.80	
Less Sinking Fund.....	284,091.07	
Net improvement bonds outstanding.....	6,867,259.73	
Public utility certificates.....	155,000.00	
Total net bonded indebtedness.....	\$39,979,551.12	\$39,979,551.12

* Of this amount the sum of \$3,296,500.00, as provided by Charter Amendments, is not included in our debt limit.

**Principal and interest of \$1,250,000.00 water bonds issued during 1909-1910 are payable from general taxation and are not included in this amount.

AMOUNT TO BE RAISED BY TAXATION FOR CITY PURPOSES, 1927 AND 1928, AS FOLLOWS

	1927	1928
General Fund.....	\$ 3,540,312.00	\$ 3,780,199.00
Bonded Indebtedness Interest Fund.....	530,370.00	499,117.00
Sinking Fund.....	340,154.00	379,500.00
Playgrounds and Parks Fund.....	101,529.00	100,000.00
Special Bridge Fund.....	162,462.00	75,407.00
Firemen's Salary Increase Fund.....	232,185.00	227,083.00
Policemen's Salary Increase Fund.....	169,908.00	167,511.00
Firemen's Relief and Pension Fund.....	33,846.00	34,286.00
Policemen's Relief and Pension Fund.....	33,846.00	34,286.00
Public Docks Fund.....	778,462.00	768,003.00
	\$ 5,923,084.00	\$ 6,065,392.00
Assessed Valuation for City—		
Real estate.....	\$158,081,285.00	\$158,878,885.00
Improvements.....	87,709,835.00	93,180,055.00
Personal property.....	54,217,640.00	51,896,055.00
Public service corporations.....	38,453,660.00	38,903,590.00
	\$338,462,420.00	\$342,858,585.00
Assessed valuation for County, including City	367,298,250.00	373,022,945.00

Property assessed by County Assessor at 75% of cash value on land and 50% of cash value on buildings.

Population 1928, estimated, 355,000.

The City has never defaulted in payment of principal or interest on any of its bonds.

TAX RATE, IN MILLS, WITHIN THE CITY OF PORTLAND

Showing County of Multnomah and City of Portland Valuations, number of mills levied for each purpose and total number of mills per dollar of assessed value in the City of Portland for each year from the tax roll of 1904 to the tax roll of 1928.

Tax Roll Year	County Valuation	State	County School	County	County Road	Library	Port of Portland	School District No. 1	City of Portland	Dock Commission	Total	City of Portland Valuation
1904	\$ 56,427,377	6.6	5.0	6.4	2.275	0.2	2.7	7.2	9.625	B	40.0	\$ 50,808,491
1905	143,860,258	1.4	2.1	2.1	0.6	0.1	0.8	2.5	5.7	B	14.8	230,432,766
1906	180,894,548	2.0	1.9	1.8	1.175	0.125	0.8	2.5	5.7	B	15.0	169,684,105
1907	233,141,058	1.6	1.4	1.4	0.89	0.11	1.2	3.0	4.6	B	16.2	219,598,810
1908	236,187,737	1.9	1.5	3.0	0.97	0.13	1.2	4.7	6.6	B	20.0	213,713,595
1909	251,415,232	2.3	1.4	1.6	0.97	0.13	1.7	5.0	4.9	B	18.0	230,891,673
1910	301,825,649	2.0	1.3	3.7	0.95	0.15	1.6	6.3	6.0	B	22.0	274,960,635
1911	324,360,100	3.7	1.25	3.6	0.8	0.75	1.5	6.0	6.8	B	24.4	290,199,230
1912	335,112,074	1.45	1.1	3.0	0.8	1.35	1.1	5.5	7.7	B	22.0	308,975,220
1913	341,464,675	4.6	1.35	1.75	1.8	0.45	1.1	7.5	7.7	B	27.0	314,058,777
1914	335,736,750	3.5	1.45	2.5	1.6	0.45	1.1	5.0	7.5	B	23.1	307,918,080
1915	323,600,680	2.7	1.35	2.45	1.95	0.45	1.0	6.6	8.9	B	25.4	303,009,010
1916	305,241,915	3.05	1.5	*4.75	A	0.5	1.2	6.8	9.6	B	27.4	285,125,840
1917	305,981,645	3.2	1.6	*4.5	A	0.5	1.5	6.5	10.8	B	28.6	284,819,955
1918	328,560,710	3.2	1.7	*5.0	A	0.5	2.1	6.3	12.0	B	30.8	305,200,640
1919	336,619,600	4.71	1.86	*5.49	A	0.74	1.4	8.6	14.0	B	36.8	312,671,785
1920	337,691,575	9.93	1.89	*5.80	A	0.78	1.4	9.8	15.2	B	44.8	314,127,565
1921	323,909,650	9.86	1.965	*5.764	A	0.811	2.00	6.7	14.5	B	45.2	300,044,715
1922	319,659,385	9.40	2.073	*5.174	A	0.853	2.10	10.6	15.0	B	45.2	295,925,345
1923	329,457,795	7.70	2.09	*5.05	A	0.86	2.20	7.6	14.5	B	40.0	304,253,760
1924	335,452,335	7.80	2.14	*4.56	A	0.90	2.40	8.4	12.5	B	41.0	309,470,855
1925	351,886,310	7.30	2.14	*4.71	A	0.85	2.50	10.3	12.8	B	42.6	324,542,640
1926	367,610,060	7.40	2.12	*4.93	A	0.85	2.70	10.7	15.2	B	46.0	338,462,420
1927	373,093,110	7.60	2.15	*5.41	A	0.84	2.70	12.4	15.46	B	48.8	342,908,795
1928	373,673,438	7.80	2.17	5.18	A	0.85	2.70	12.80	16.20	B	50.0	342,109,798

A—Included in County.

*Includes all General County Levies, except School and Library.

†Includes .15 mill for County High School.

Note—City of Portland valuation included in the general county total.

B—City of Portland rate includes Dock Commission.

WHEN TAXES ARE PAYABLE
(Section 4323 of Oregon Laws)

The first half of all taxes legally levied and charged shall be paid on or before the fifth day of May following, and the second half on or before the fifth day of November following, irrespective of whether or not either date falls upon a Sunday or a legal holiday.

Interest shall be charged and collected on any tax or half of a tax, not so paid, at the rate of one per cent per month or fraction of a month, until paid.

All taxes not paid on or before the fifth day of November next following shall become delinquent and on the fifth day of February next following a penalty of two per cent shall be charged and collected thereon, in addition to the interest provided herein.

INVENTORY OF CITY PROPERTY NOVEMBER 30, 1928

	Personal Property	Real Estate and Improvements
Auditor's Office	\$ 11,094.75	
Street improvement and sewer warrants surrendered to the City for General Fund warrants by authority of the Council, face value	106,575.40	
Paving Fund warrants drawn in favor of the City, being 10% of cost of blacktop pavement laid by Paving Plant.....	1,482.19	
Mayor's Office	1,100.50	
Board of Motion Picture Censors.....	334.50	
Municipal Court	1,268.80	
Office of City Attorney.....	8,064.45	
Bureau of Police.....	204,639.66	\$ 510,000.00
Nuisance Division	285.75	
Commissioner of Finance.....	981.50	
Municipal Reference Library.....	2,238.00	
Bureau of City Hall	3,228.00	640,000.00
Bureau of Licenses	1,788.75	
Bureau of Purchases	862.00	
Municipal Garage	627.97	55,000.00
Municipal Store	547.03	
Treasurer's Office	10,011.65	
Stationery Stock	3,502.89	
Municipal Stores Stock.....	9,349.06	
Bureau of Parks.....	69,977.98	5,507,658.00
Commissioner of Public Affairs.....	432.15	
Public Market	159.50	4,400.00
Bureau of Public Employment	80.00	
Bureau of Garbage Disposal	10,772.17	270,000.00
Bureau of Street Cleaning	63,492.00	142,500.00
Bureau of Fire	981,928.56	954,755.85
Municipal Shop	15,030.90	
Department of Public Works.....	80,607.04	
Maintenance Stock	7,034.88	22,734.00
Commissioner of Public Utilities.....	397.00	
Bureau of Weights and Measures	1,352.40	
Bureau of Health	13,238.20	61,216.15
Civil Service Board.....	1,545.30	
City Planning Commission.....	1,237.90	
Public Auditorium	14,413.50	845,000.00
Bureau of Water Works.....	427,593.64	26,485,445.13
Municipal Paving Plant.....	42,098.86	86,844.73
Ferry approaches		50,000.00
Bridges		2,386,266.00
Commission of Public Docks.....	112,086.76	9,428,432.36
Tax title property.....		1,259,659.00
	\$ 2,211,461.59	\$48,709,961.22

INVENTORY OF CITY PROPERTY—REAL ESTATE AND IMPROVEMENTS—BUREAU OF PARKS—NOVEMBER 30, 1928

Name	Location	Area in Acres	Value of Improvements	Value of Land
Alberta.....	E. 19th and Killingsworth.....	16.70	\$ 5,500.00	\$ 40,000.00
Benson and Multnomah Falls.....	Columbia Highway.....	760.00	46,000.00	76,000.00
Belmont.....	E. 17th and Taylor.....	4.38	7,500.00	64,500.00
Buckman.....	E. 12th and Davis Sts.....	9.60	3,700.00	105,000.00
Columbia.....	Lombard and Woolsey Sts.....	28.15	30,925.00	42,750.00
Creston.....	E. 44th and Powell St.....	10.00	19,500.00	15,000.00
Crown Point.....	Columbia Highway.....	0623		2,500.00
Dawson.....	Stanton and Williams Ave.....	2.00	4,000.00	22,000.00
Duniway.....	6th and Sheridan Sts.....	12.50	6,500.00	115,000.00
Eastmoreland Golf Links.....	Bybee Ave. and Crystal Springs.....	148.00	19,500.00	215,000.00
Forestry Bldg.....	28th and Upshur Sts.....	1.89		17,500.00
Fulton.....	Slavin Rd. and Terwilliger Blvd.....	34.10		17,500.00
Gammans.....	Bnffalo and Burrage Sts.....	1.65		4,500.00
Governors.....	14th and Spring Sts.....	4.21		17,000.00
W. Lair Hill.....	2nd and Wood.....	2.93		75,000.00
Holladay.....	E. 11th and Holladay Ave.....	4.86	4,000.00	97,500.00
Irving.....	E. 7th and Fremont Sts.....	15.00	5,950.00	65,000.00
Johnson Creek.....	E. 21st and Clatsop Sts.....	2.84	1,000.00	3,715.00
Kenilworth.....	E. 34th and Holgate Sts.....	9.00	3,000.00	15,300.00
Ladd's Circle and Squares.....	Ladd's Addition.....	1.62		10,000.00
Laurelhurst.....	E. 39th and Stark Sts.....	31.10	17,700.00	130,082.00
Laurelwood.....	64th Ave. and Foster Road.....	.22		11,178.00
Lents.....	E. 92nd St. and 53rd Ave.....	5.20	5,000.00	7,500.00
Linnnton.....	Linnnton.....	1.25	3,500.00	1,000.00
Linnnton.....	Linnnton.....	15.00		15,000.00
Linnnton.....	Linnnton.....	103.34	1,000.00	92,750.00
Macleay.....	Cornell Road.....	9.00		9,000.00
Madrona.....	Greeley Extension.....	10.00	10,500.00	13,500.00
Montavilla.....	E. 82nd and Glisan Sts.....	80.00		8,000.00
McLaughlin.....	Columbia Highway.....	11.13	26,000.00	37,750.00
Mt. Scott.....	72nd St. and 55th Ave., S. E.....	198.80	30,150.00	375,000.00
Mt. Tabor and Nursery.....	E. 69th St. and Belmont St.....	2.53	26,350.00	765,000.00
North Park.....	Couch Addition.....	7.80		27,750.00
Overlook.....	Foot of Fremont St.....	.01		50.00
Overlook Triangle.....	Block 120, Overlook.....	65.00	10,500.00	43,333.00
Pier.....	St. Johns Ave.....	1.03		4,500.00
Patton.....	Part of Block "B," Patton.....	9.10	7,500.00	27,300.00
Powell.....	E. 26th and Powell Sts.....	16.50	47,100.00	60,000.00
Peninsula.....	Albina and Portland Blvd.....	1.84	1,600.00	540,000.00
Plaza Blocks.....	4th and Main Sts.....	150.00	5,200.00	150,000.00
Rose City Golf Links.....	E. 62nd and Thompson.....	12.00		24,000.00
Riverside.....	Macadam Road.....	4.92	500.00	940,000.00
South Park Blocks.....	Salmon and Park.....	16.00	18,175.00	54,000.00
Sellwood Park.....	E. 7th and Miller Ave.....			
Sellwood Community Building.....	E. 15th and Spokane Ave.....	.25	6,000.00	2,500.00
Shepherds Dell.....	Columbia Highway.....	10.03		2,000.00
Terwilliger Blvd.....	6th and Sheridan Sts.....	74.08	1,200.00	260,000.00
Terwilliger Park.....	Lowell and Corbett Sts.....	4.53	1,500.00	25,000.00
U. S. Grant.....	E. 33rd and Thompson Sts.....	29.11	35,000.00	64,000.00
Wallace.....	E. 33rd and Raleigh Sts.....	2.07	5,000.00	44,500.00
Washington.....	25th and Raleigh Sts.....	101.90	80,950.00	203,800.00
West Hills Golf Links.....	Head of Washington.....	205.00	2,800.00	102,500.00
Woodstock.....	Canyon Road.....	15.00	6,100.00	19,500.00
	53rd Ave. and 48th St., S. E.....			
			\$ 506,400.00	\$4,981,258.00

BUILDINGS AND IMPROVEMENTS ON PROPERTY NOT OWNED BY CITY

Comfort Stations.....	6th and Yamhill Sts.....	\$ 13,000.00	
	4th and Yamhill Sts.....	3,500.00	
	2nd and Washington Sts.....	3,500.00	
Totals.....		\$ 20,000.00	
Grand Totals.....		\$ 526,400.00	\$ 4,981,258.00

INVENTORY OF CITY PROPERTY—REAL PROPERTY
BUREAU OF FIRE

Name	Location	Size of Lot Feet	Value of Improvement	Value of Land
Albina Homestead.....	E. S. Vancouver Ave. between Failing and Beech Sts.....	50x100		\$ 1,500.00
Albina.....	303 Russell St.....	50x145	\$ 15,000.00	2,500.00
Blk. E. 1/2 "Z" Portland	494 Montgomery St.....	80x100	14,000.00	8,250.00
Caruthers.....	811 Front St.....	50x100	11,000.00	2,500.00
Couch.....	126 N. 3rd St.....	50x 88	14,000.00	13,000.00
Couch Add.....	511 Glisan St.....	50x100	12,500.00	8,750.00
Couch Add.....	329 20th St., N.....	50x100	2,400.00	5,000.00
East Irvington	448 E. 24th St., N.....	100x100	7,000.00	3,500.00
Fire Boat House and Dock.....	Foot of E. Washington St.....	60x300	31,000.00	30,000.00
Fire Boat House and Dock.....	Foot of Albina.....		32,500.00	21,000.00
Frush's Square.....	40 E. 3rd St.....	50x100	8,000.00	7,500.00
Green's Add.....	1334 Kelley St.....	60.54x100	12,500.00	800.00
Grover's Add.....	590 Spring St.....	50x100	12,112.00	3,250.00
Holladay Add.....	227 Union Ave.....	25x 50	1,800.00	1,500.00
Holladay Add.....	261 Grand Ave.....	50x100	7,200.00	4,500.00
Kenilworth.....	1000 Francis Ave.....	100x100	16,000.00	1,800.00
Kenton.....	1711 Brandon.....	100x100	8,000.00	1,000.00
Kern Park.....	4536 67th St., S. E.....	50x100	10,899.50	1,500.00
Kings 2nd Add.....	188 N. 24th St.....	50x100	12,000.00	5,000.00
James John Add., etc.	215 Philadelphia.....	235x130	5,000.00	2,500.00
Linnton.....	Linnton, 1st and D.....	25x100	750.00	600.00
Maegly Highland.....	1027 Union Ave.....	50x100	11,000.00	3,000.00
Multnomah.....	359 Mississippi.....	50x100	800.00	2,500.00
Patton Tract.....	1126 Patton Ave.....	100x100	15,000.00	6,750.00
Portland.....	168-170 Fourth St.....	50x100	7,000.00	100,000.00
Portland.....	370 Fourth St.....	50x100	15,000.00	7,000.00
Portland.....	69 Second St.....	25x100	16,000.00	13,500.00
Portland.....	273 First St.....	25x100	15,000.00	10,000.00
Portland.....	201-3 Fourth St.....	50x100	50,000.00	62,500.00
Proebstel's Add.....	W. S. Borthwick St. between Knott and Graham Sts.....	50x100		1,000.00
Ramona.....	1597 E. Stark St.....	100x100	9,000.00	2,000.00
Richmond.....	S. Side Division between 39th and 41st Sts.....	100x100		2,500.00
Rose City Park.....	1494 Sandy Road.....	100x100	8,000.00	4,000.00
Sellwood.....	1660 E. 13th St.....	100x100	11,000.00	2,500.00
Sherlock's Add.....	23rd and Reed Sts.....	50x100	11,000.00	3,500.00
Stevens Add.....	367 E. 7th St.....	25x100	7,000.00	1,000.00
Sunnyside.....	162 E. 35th St.....	33 1/3x100	15,000.00	1,500.00
Sunnyside.....	N. W. Cor. E. Taylor and E. 34th Sts.....	7,250sq. ft.		2,260.00
Terrace Park.....	30 E. 82nd St., N.....	100x100	8,400.00	1,500.00
Willamette Add.....	S. E. Cor. Alberta and E. 33rd Sts., N.....	100x100	10,080.00	2,000.00
Woodlawn Triangle.....	426 Durham Ave.....		8,000.00	
Woodstock.....	S. W. Cor. 59th Ave. and E. 43rd St., S. E.....	50x100	10,000.00	750.00
Wynkoop.....	63 E. 28th St., N.....	50x100	11,000.00	2,000.00
I. S.-IE.....	545 Powell St.....	50x100	3,000.00	2,000.00
L. N.-IE.....	Essex St.....	0.35 Acres		4,000.00
Parcel of Land.....	S. W. Cor. Ella and Morrison Sts.....	45x104		22,500.00
East Portland.....	S.W. corner E. 11th and E. Stark.....	100x100	33,314.35	10,000.00
Portsmouth Villa Ext'd.	Lombard and Herford St.....	85x100	10,280.00	2,500.00
Bernhardt Park.....	92nd St. and 57th Ave. S. E.....	87 1/2x130	10,080.00	1,500.00
Sullivan's Add.....	E. 21st and Pacific St.....		21,660.00	1,750.00
Totals.....			\$ 550,355.85	\$ 404,400.00

INVENTORY OF CITY PROPERTY—REAL PROPERTY—Continued
PUBLIC WORKS CONSTRUCTION

Name	Location	Value of Improvement	Value of Land
BRIDGES			
Alexander Ave.....	Gordon to Mayfair.....	\$ 20,938.00	
Bybee Ave.....	S. P. Railway.....	11,080.00	
Columbia Slough Channel.....	Drainage Canal.....	1,892.00	
Eighty-Second St., E.....	Sullivan Gulch.....	25,221.00	
First St.....	Marquam Gulch.....	16,967.00	
Forty-Seventh St., E.....	Sullivan Gulch.....	108,500.00	
Fifty-Third St., E.....	Sullivan Gulch.....	27,443.00	
Grand Ave.....	Sullivan Gulch.....	50,800.00	
Halsey St.....	Sullivan Gulch.....	58,531.00	
Holgate St.....	E. 18th to E. 24th St.....	35,612.00	
Sandy Blvd.....	Sullivan Gulch.....	81,322.00	
Seventy-Fourth St., E.....	Sullivan Gulch.....	39,276.00	
Sixtieth St., E.....	Sullivan Gulch.....	68,786.00	
Thurman St.....	Balch Gulch.....	11,000.00	
Twelfth St., E.....	Sullivan Gulch.....	29,656.00	
Twenty-Eighth St., E.....	Sullivan Gulch.....	10,624.00	
Twenty-First St., E.....	Sullivan Gulch.....	44,272.00	
Union Ave.....	Sullivan Gulch.....	26,207.00	
Union Ave.....	O.-W. R. R. & N. (S. of Col. Blvd.).....	26,740.00	
E. Thirty-Third St.....	Sullivan Gulch.....	38,571.00	
Vista Ave.....	Canyon Road.....	171,206.00	
Burlingame Viaduct.....		38,248.00	
Lovejoy St. Viaduct System.....		256,520.00	
Total.....		1,199,412.00	
FERRY LANDINGS			
	Old Albina, a parcel of land 60 ft. wide lying S. E. of and adjacent to River, Lot 9, Albina.....		\$ 15,000.00
	New Albina, the S. E. ¼ 65 ft. of Lot 9, Albina River Lots.....		15,000.00
	The North 60 ft. of Lot 21, and South 5 ft. of Lot 22, Block 2, Doscher's Add.....		20,000.00
	Total Ferry Landings.....		\$ 50,000.00
	Lots 12, 13, 14 and 15 Blk. 14, Proebstel's Add.....	\$ 12,784.00	\$ 10,000.00
			\$ 60,000.00
WILLAMETTE RIVER BRIDGES			
	Morrison St.....	\$ 77,077.00	
	Hawthorne Ave.....	248,305.00	
	Broadway.....	861,472.00	
	Total.....	\$1,186,854.00	
		1,199,412.00	
	Total Bridges.....	\$2,386,266.00	

INVENTORY OF CITY PROPERTY—REAL PROPERTY—Continued

Name	Location	Area in Acres	Value of Improvement	Value of Land
Public Affairs—Street Cleaning—				
Davenport Tract, Lots 5, 8, 9, 10, 11, 12, in Block 1.....	16th, 17th and Madison Sts., E. 6th, 7th and Hancock Powell St. East of Milwaukie.....	80' x 120' x 100' x 200' x 210' 100' x 200' 0.5 Acres.....	\$ 60,000.00 12,500.00 25,000.00	\$ 25,000.00 12,500.00 7,500.00
Brooklyn Barn.....		Totals.....	\$ 97,500.00	\$ 45,000.00
Public Safety—Police—				
Police Station.....	Lots 3 and 4, Block 30.....	22 Acres.....	\$ 350,000.00	\$ 85,000.00
Old Albina Police Station.....	N.E. 25' Lots 3 and 4, Block 56, Albina.....	.057 Acres.....	2,000.00	1,500.00
St. Johns Police Station.....	Block 1, James Johns Addn.....	.79 Acres.....	45,000.00	3,500.00
Linnerton Station.....	Lots 3 and 4 in Block 40, Linnerton.....	.229 Acres.....		1,000.00
East Side Water Office.....	Lots 7 and 8, Block 139, E. Portland.....		\$ 399,000.00	\$ 111,000.00
Public Utilities—Health—				
Lepor Hospital.....	Kelly Butte.....		\$ 546.52	
Isolation Hospital.....	Kelly Butte.....		59,766.63	
Smallpox Hospital.....	Former Tract "D," Sec. 5T1S, R1E, W. M.....	232 Acres.....		\$ 838.00
Smallpox Hospital.....	Former Tract, Sec. 5T1S, R1E, W. M.....	68 Acres.....		75.00
		Totals.....	\$ 60,303.15	\$ 913.00

INVENTORY OF CITY PROPERTY—REAL PROPERTY—Continued

Name	Location	Area in Acres	Value of Improvement	Value of Land
Public Affairs—Garbage Disposal— Garbage Incinerator and Public Dumping Grounds.....	White Tract, 25th St. N. and Guilds Lake. Tax Lot 7-4-5, Sec. 29, T1N1R1E, Guilds Lake.....	15 Acres 20' x 350'	\$ 165,000.00	\$ 97,500.00 7,500.00
Finance—City Hall— City Hall.....	4th and 5th Streets, Madison and Jefferson.....	Totals..... 200' x 200'	\$ 165,000.00 \$ 350,000.00	\$ 105,000.00 \$ 290,000.00
Public Safety—Public Auditorium— Public Auditorium.....	Clay and Market Streets, 2nd and Third Streets.....	200' x 200'	\$ 750,000.00	\$ 95,000.00
Public Works—Standards, Municipal Paving Plant— Plant Site—River and Essex Streets.....	.....	.....	.....	\$ 27,700.00
Real Estate Improvements.....	.....	.....	.....	9,644.61
Building and Docks.....	.....	.....	.....	49,500.12

INVENTORY OF CITY PROPERTY—REAL PROPERTY—Continued

BUREAU OF WATER WORKS

Name	Location	Area in Acres	Value of Land	Buildings and Improvements
Headworks Vicinity and Transmission Lines... Camp Butte Resv. Site. Lusted Standpipe.....	Clackamas and Multnomah Cos. Wilson Farm Gresham N. 1/2 S. E. 1/4 S. E. 1/4 Sec. 16, T. 1 S., R. 4 E., W. M.	550.	\$ 314,855.45 135,000.75	\$ 588,571.77 5,335.83
Whitwood Court Pump. Vernon Standpipe..... Portland Ht. Tank.....	Lot 1, Block 24, Whitwood Ct... E. 19th and Prescott Sts..... Lots 6, 7, Part 5, Blk. K, Greenway.....	.05 1.97	175.00 10,057.23	156.82 2,597.86
St. Johns Stp. Site..... Upper Linnton Res..... Upper Whitwood Res..... Lower Whitwood Res..... Council C. Standpipe..... Will. Hts. Tank..... Burlingame Stp..... Fulton Park Pump..... Kings Hts. Res.....	Willamette Blvd. and Erie..... Part Blk. 20, Linnton 1st Addn. Whitwood Court..... Whitwood Court..... Council Crest..... Tax Lot 26, Sec. 29, Will. Hts. Lots 3, 4, Block 32, Burlingame. Virginia and Nevada Sts..... Lots 1, 2, Block 21, Kings Hts. Addn.....	41 07 23 23 23 06 23 05 20	2,473.59 55.86 111.73 446.90 1,996.09 111.73 222.72 612.48	5,704.24 2,422.55 792.00 455.07 185.08 40.00 4,299.55
Willalatin Park..... Upper Willbridge..... Lower Willbridge..... Reservoir No. 1..... Reservoir No. 2..... Reservoirs Nos. 5 and 6. Reservoirs Nos. 3 and 4. Marquam Hill Stdp.....	Willalatin and Cornell Rd..... Upper Willbridge, Linnton..... Lower Willbridge, Linnton..... Mt. Tabor Park..... E. 60th and Division..... Mt. Tabor Park..... Washington Park..... Lot 5, Block 67, Homestead Addition.....	23 13 22 5.82 10 45.17 63.10	55.68 83.52 9,721.73 37,029.30 153,035.41 196,750.85	..... 510.00 29.80 1,918.80 19,396.09
Submerged Pipe..... Albina Water Office..... Albina Storage Yard and Office..... Old E. Side Pump Site. Patton "M" Addn..... Willamette Hts. Tank..... Graves Addn..... Caruthers Add. Resv..... Old Pump House Site..... Old St. Johns Pump Site.....	Right-of-Way..... Parts Lots 6-7, Blk. 26, Albina..... Blocks 94-96, Albina..... Milwaukie and Powell St..... Emerson Int. Ave..... Near Cornell Rd. and Fall St..... 19th and Spring Sts..... Block 32, Caruthers Addn..... Foot Lincoln St..... Lots 1, 2, 7, 8, Block 14, Johns No. 2 Addn..... Lot 24, Block 1, Pomona Addn..... 51st Ave., near 92nd St..... Lot 4, Block 6, Meagley Highland land..... Lot 5, Block 22, Saginaw Hts.....	..... ..... ..... 23 02 92 50 46 074 013 115 10	455.00 10,575.62 3,171.00 82,632.46 11,182.77 9,000.00 100.00 350.00 29,137.30 12,500.00 1,457.50 250.00 125.00 1,800.00 400.00	5,127.99 38,659.58 150,547.09 3,206.83
Lower Linnton Pump House..... Washington Park..... Division St. Office..... St. Johns Shop..... Intangible Assets, Right Conduits, Water Mains, Reservoirs, etc.....	In Street..... ts-of-Way, Easements, etc. Hydrants, Meters, Services,	..... ..... ..... .....	..... ..... 54,555.99	396.00 2,468.56 6,875.23 138.11 22,097,443.30
Bear Creek Dam and Site Improvements.....	.....	.....	\$1,087,369.39	\$22,937,300.98 2,460,774.76
Total—Bureau of Water Works.....	.....	.....	\$1,087,369.39	\$25,398,075.74

COMMISSION OF PUBLIC DOCKS, INVENTORY OF PLANT AND REAL ESTATE NOVEMBER 30, 1928

	Plant	Real Estate
Municipal Terminal No. 1.....	\$1,077,842.08	\$1,310,945.31
Municipal Terminal No. 2.....	293,102.34	355,562.47
Municipal Terminal No. 3.....	58,423.14	41,118.40
Municipal Terminal No. 4.....	5,776,962.85	204,945.71
Public Levee		195,000.00
Ferry Landing		10.00
Street Railway	63,537.96	
Stark Street Municipal Boat Landing.....	46,241.83	
Woodward Avenue Municipal Boat Landing..	4,740.27	
	\$7,320,850.47	\$2,107,581.89

STATEMENT OF ASSETS AND LIABILITIES NOVEMBER 30, 1928

Assets		
Personal property	\$ 2,211,461.59	
Real estate and improvements.....	48,709,961.22	
Cash balances in all funds except trust funds and special assessment funds.....	2,603,486.29	
Cash rotary accounts.....	4,270.00	
Investment Accounts—		
Water Bond Sinking Fund.....	2,894,640.00	
Sinking Fund	1,055,954.38	
Broadway Bridge Fund.....	3,979.55	
Public Docks Sinking Fund.....	956,500.00	\$58,440,253.03
Liabilities		
Bonded debt	\$38,799,000.00	
Interest coupons due Dec. 1, 1928.....	55,355.00	
Interest coupons outstanding Nov. 30, 1928..	26,952.50	
Claims payable	37,637.64	
Warrants outstanding Nov. 30, 1928.....	1,056,655.62	
Short term loans.....	465,000.00	
Surplus	17,999,652.27	\$58,440,253.03

FRANCHISE ACCOUNTS

Pacific Telephone & Telegraph Co.—		
Amount due account 1927 as per Ordinances 12590 and 35096.....		\$15,000.00
Amount paid during 1928.....		\$15,000.00
Portland Electric Power Co.—		
Amount due for 1927 as per Ordinances 13089, 13177, 19176, 26080, 26648, 29238, 41779, 47807, 47808, 50536; St. Johns Ordinances 312 and 508.....		\$57,889.44
Amount paid during 1928.....		\$57,768.44
Balance unpaid		121.00
		\$57,889.44
Oregon Electric Railway Co.—		
Amount due for 1927 as per Ordinances 15428, 22539, 25998.....		\$ 6,785.00
Amount paid during 1928.....		\$ 6,785.00
United Railways Co.—		
Amount due for 1927 as per Ordinance 30132; 5% gross earnings.....		\$ 1,476.12
Amount paid during 1928.....		\$ 1,476.12
Oregon-Wash. R. R. & Nav. Co.—		
Amount due for 1927 as per Ordinances 20478, 23256, 23257, 24198; St. Johns Ordinances 388, 572.....		\$ 257.00
Amount paid during 1928.....		\$ 257.00
Oregon California R. R. Co.—		
Amount due for 1927 as per Ordinances 26511, 26512		\$ 2,500.00
Amount paid during 1928.....		\$ 2,500.00
Spokane Portland & Seattle Ry. Co.—		
Amount due for 1927 as per Ordinance 26513		\$ 500.00
Amount paid during 1928.....		\$ 500.00
Central Heating Co.—		
Amount due for 1927 as per Ordinance 22540		\$ 50.00
Amount paid during 1928.....		\$ 50.00
Heights Trust Co.—		
Balance due December 1, 1927, as per Ordinance 21735	\$ 3,690.00	\$ 4,190.00
Amount due for 1927.....	500.00	
Balance due November 30, 1928.....		\$ 4,190.00

FRANCHISE ACCOUNTS—Continued

Northwestern Electric Co.—		
Amount due for 1927 as per Ordinances 25930, 27160, being 3% of gross revenue for light and heat.....		\$69,527.36
Amount paid during 1928.....		\$69,527.36
Portland Central Heating Co.—		
Amount due for 1927 as per Ordinance 25997.....		\$ 5.00
Amount paid during 1928.....		\$ 5.00
Erroll Heights Railway Co.—		
Balance due December 1, 1927, as per Ordinance 27235.....	\$ 1,614.80	
Amount due for 1927.....	146.80	\$ 1,761.60
Balance due November 30, 1928.....		\$ 1,761.60
Portland Gas Co.—		
Amount due for 1927 as per St. Johns Ordinance 237.....		\$ 100.00
Amount paid during 1928.....		\$ 100.00
Linnton Transit Co.—		
Amount due for 1927 as per Ordinance 40896.....		\$ 100.00
Amount paid during 1928.....		\$ 100.00
Mulnomah Transit Co.—		
Amount due for 1927 as per Ordinance 51658.....		\$ 10.00
Amount paid during 1928.....		\$ 10.00

NORTHWESTERN ELECTRIC COMPANY GENERAL BALANCE SHEET
QUARTER ENDING DECEMBER 31, 1927

Debit		CAPITAL ACCOUNT	Credit	
Stocks and bonds of other companies owned by respondent (give detail).....	\$ 28,132.30	Capital stock	\$ 14,818,900.00	
Subscribers to capital stock	1,285.33	Funded debt	8,001,700.00	
		Capital stock subscribed	4,000.00	
Debit		ASSETS AND LIABILITIES	Credit	
Cash	\$ 218,016.36	Loans and bills payable.....	\$ 1,054,992.00	
Accounts receivable	689,574.48	Audited vouchers and accounts	148,476.55	
Plant property and equipment	23,956,538.58	Miscellaneous current liabilities	782.75	
Material and supplies.....	385,418.34	Consumers' deposits.....	12,523.71	
Miscellaneous current assets	3,040.00	Consumers' extension deposits	2,348.40	
Prepaid accounts.....	30,632.40	Dividends declared.....	84,034.25	
Sinking funds	879,609.20	Taxes accrued	497,728.23	
Unamortized debt, discount and expense....	271,829.36	Interest accrued	80,669.56	
Construction work in progress	180,448.45	Miscellaneous accrued liabilities	333.68	
Deferred accounts	11,669.37	Depreciation and retirement reserve	1,054,464.53	
		Miscellaneous reserves..	38,886.45	
		Miscellaneous unadjusted credits	135,802.83	
		Surplus Dec. 31, 1927....	720,551.23	
Debit		INCOME ACCOUNT	Credit	
Operating expenses.....	\$ 369,285.28	Operating revenue.....	\$ 893,943.16	
Taxes accrued	114,180.82			
Miscellaneous interest..	134,613.29			
Miscellaneous deductions	14,363.27			
Depreciation and retirement expenses.....	180,000.00			
Net income for quarter.	81,500.50			
Debit		PROFIT AND LOSS	Credit	
Miscellaneous debits.....	\$ 1.00	Balance Sept. 30, 1927....	\$ 801,296.05	
Dividends	184,018.96	Balance from income account	81,500.50	
Surplus Dec. 31, 1927....	720,551.23			
Miscellaneous credits	21,774.64			

NORTHWESTERN ELECTRIC COMPANY GENERAL BALANCE SHEET
QUARTER ENDING MARCH 31, 1928

Debit		CAPITAL ACCOUNT	Credit
Stocks and bonds of other companies owned by respondent (give detail)	\$ 28,132.30	Capital stock	\$ 14,821,200.00
Subscribers to capital stock	598.91	Funded debt	8,001,700.00
		Capital stock subscribed	1,600.00

Debit		ASSETS AND LIABILITIES	Credit
Cash	\$ 178,789.08	Loans and bills payable	\$ 844,992.00
Notes receivable	1,457.64	Audited vouchers and accounts	163,894.03
Accounts receivable	674,792.71	Miscellaneous current liabilities	282.75
Plant property and equipment	23,422,321.76	Consumers' deposits	13,505.72
Material and supplies	364,668.91	Consumers' extension deposits	2,344.22
Miscellaneous current assets	2,925.00	Dividends declared	84,092.00
Prepaid accounts	48,583.57	Taxes accrued	474,927.16
Sinking funds	892,754.70	Interest accrued	200,573.64
Unamortized debt, discount and expense	262,562.45	Miscellaneous accrued liabilities	598.72
Construction work in progress	385,395.63	Depreciation and retirement reserve	1,067,373.46
Lewis River development	480,156.98	Miscellaneous reserves	47,999.79
Deferred accounts	53,123.92	Miscellaneous unadjusted credits	170,309.66
		Surplus March 31, 1928	900,870.41

Debit		INCOME ACCOUNT	Credit
Operating expenses	\$ 392,023.92	Operating revenue	\$ 940,286.71
Taxes	127,979.17	Non-operating revenues	7,188.75
Non-operating deductions	683.96		
Miscellaneous interest	124,185.44		
Miscellaneous deductions	23,200.33		
Depreciation and retirement expense	15,000.00		
Net income for quarter	264,402.64		

Debit		PROFIT AND LOSS	Credit
Dividends	\$ 84,083.46	Balance Dec. 31, 1927	\$ 720,551.23
Surplus March 31, 1928	900,870.41	Balance from income account	264,402.64

NORTHWESTERN ELECTRIC COMPANY GENERAL BALANCE SHEET
QUARTER ENDING JUNE 30, 1928

Debit		CAPITAL ACCOUNT	Credit
Stocks and bonds of other companies owned by respondent (give detail)	\$ 28,033.30	Capital stock	\$ 14,821,200.00
Subscribers to capital stock	146.91	Funded debt	8,108,200.00
		Capital stock subscribed	600.00

Debit		ASSETS AND LIABILITIES	Credit
Cash	\$ 147,253.04	Loans and bills payable	\$ 904,992.00
Notes receivable	3,716.83	Audited vouchers and accounts	291,823.01
Accounts receivable	619,777.45	Miscellaneous current liabilities	2,619.51
Plant property and equipment	23,367,840.53	Consumers' deposits	13,672.50
Material and supplies	394,677.65	Dividends declared	84,092.00
Miscellaneous current assets	3,591.10	Taxes accrued	358,963.87
Prepaid accounts	45,925.34	Interest accrued	83,005.50
Sinking funds	987,245.70	Miscellaneous accrued liabilities	598.72
Unamortized debt, discount and expense	253,295.54	Depreciation and retirement reserve	1,077,305.21
Construction work in progress	591,295.54	Miscellaneous reserve	56,677.24
Lewis River development	489,066.90	Miscellaneous unadjusted credits	193,459.13
Deferred debits	41,976.98	Surplus June 30, 1928	976,678.34

Debit		INCOME ACCOUNT	Credit
Operating expenses	\$ 376,391.72	Operating revenue	\$ 820,668.23
Taxes	105,389.38	Non-operating revenues	12,679.47
Non-operating deductions	2,099.49		
Miscellaneous interest	124,063.42		
Miscellaneous deductions	21,718.38		
Depreciation and retirement expense	15,000.00		
Net income for quarter	188,685.31		

Debit		PROFIT AND LOSS	Credit
Miscellaneous debits to profit and loss	\$ 28,794.59	Balance March 31, 1928	\$ 900,870.41
Dividends	84,082.79	Balance from income account	188,685.31
Surplus June 30, 1928	976,678.34		

NORTHWESTERN ELECTRIC COMPANY GENERAL BALANCE SHEET
QUARTER ENDING SEPTEMBER 30, 1928

Debit	CAPITAL ACCOUNT		Credit
Stocks and bonds of other companies owned by respondent (give detail)	\$ 28,033.30	Capital stock	\$ 14,820,900.00
Subscribers to capital stock	72.41	Funded debt	3,108,200.00
		Capital stock subscribed	200.00

Debit	ASSETS AND LIABILITIES		Credit
Cash	\$ 158,104.58	Loans and bills payable	\$ 914,992.00
Bills receivable	5,637.51	Audited vouchers and accounts	384,655.55
Accounts receivable	630,964.12	Miscellaneous current liabilities	282.75
Plant property and equipment	23,362,155.08	Consumers' deposits	14,630.33
Material and supplies	386,096.63	Consumers' extension deposits	2,333.44
Miscellaneous current assets	7,850.00	Dividends declared	84,092.25
Prepaid accounts	41,236.44	Taxes accrued	389,593.46
Sinking funds	1,001,906.70	Interest accrued	205,772.70
Construction work in progress	801,228.53	Depreciation and retirement reserve	1,089,408.86
Lewis River development	513,921.98	Miscellaneous reserve	62,394.91
Deferred debits	322,175.29	Miscellaneous unadjusted credits	182,230.06
		Surplus Sept. 30, 1928	999,696.26

Debit	INCOME ACCOUNT		Credit
Operating expenses	\$ 401,802.08	Operating revenue	\$ 766,530.57
Taxes	97,299.08	Non-operating revenues	6,888.57
Non-operating deductions	2,749.22		
Miscellaneous interest	123,548.71		
Miscellaneous deductions	20,149.83		
Depreciation and retirement expenses	15,000.00		
Net income for quarter	112,870.22		

Debit	PROFIT AND LOSS		Credit
Miscellaneous debits to profit and loss	\$ 5,811.87	Balance June 30, 1928	\$ 976,678.34
Dividends	84,040.43	Balance from income account	112,870.22
Surplus Sept. 30, 1928	999,696.26		

PORTLAND GAS AND COKE COMPANY GENERAL BALANCE SHEET
QUARTER ENDING DECEMBER 31, 1927

Debit	CAPITAL ACCOUNT		Credit
Stocks and bonds of other companies owned by respondent (give detail)	\$ 54,451.00	Capital stock	\$ 8,449,900.00
Pledged bonds	1,429,000.00	Funded debt	10,524,000.00
Treasury bonds	1,000,000.00	Capital stock subscribed	7,700.00
		Premium on capital stock	187.00

Debit	ASSETS AND LIABILITIES		Credit
Cash	\$ 212,138.07	Loans and bills payable	\$ 4,231,800.00
Bills receivable	7,994.94	Audited vouchers and accounts	311,719.65
Accounts receivable	882,615.63	Consumers' deposits	80,394.31
Plant and property	21,180,026.13	Accrued accounts	570,295.49
Material and supplies	328,725.50	Reserve accounts	1,000,883.95
Prepaid accounts	18,875.30	Sundry liabilities	3,595.88
Suspense	40,081.12	Surplus	346,897.46
Construction work in progress	73,091.61		
Bond discount and expense	287,790.04		
Sundry assets	12,584.40		

Debit	INCOME ACCOUNT		Credit
Operating expenses	\$ 2,721,690.66	Operating revenue	\$ 4,752,918.44
Taxes accrued	484,118.34	Dividends on stocks owned	12.50
Income tax on coupons paid	4,378.61	Non-operating revenues	2,280.51
Bond discount amortized	23,872.92	Non-operating rent revenues	5,779.96
Bond interest	425,750.00	Sundry interest received	30,932.70
Sundry interest paid	233,061.85		
Retirement expense	60,000.00		

Debit	PROFIT AND LOSS		Credit
Balance Dec. 31, 1927	\$ 346,897.46	Balance Dec. 31, 1926	\$ 317,921.06
Amount charged off for depreciation	190,000.00	Balance from income account	839,051.73
Miscellaneous adjustments	10.00	Miscellaneous adjustments	857.29
Dividend expense	620,922.62		

PORTLAND GAS AND COKE COMPANY GENERAL BALANCE SHEET
QUARTER ENDING MARCH 31, 1928

Debit	CAPITAL ACCOUNT	Credit
Stocks and bonds of other companies owned by respondent (give detail)	54,451.00	Capital stock
Pledged bonds	3,379,000.00	Funded debt
		Capital stock subscribed
		Premium on capital stock
		11,452,900.00
		13,424,000.00
		5,100.00
		187.00

Debit	ASSETS AND LIABILITIES	Credit
Cash	128,386.42	Audited vouchers and accounts
Bills receivable	807,635.36	Consumers' deposits
Accounts receivable	729,064.10	Accrued accounts
Plant and property	21,157,889.11	Reserve accounts
Material and supplies	369,991.38	Sundry liabilities
Prepaid accounts	22,721.75	Surplus
Suspense	35,122.70	
Construction work in progress	188,783.80	
Bond discount and expense	499,628.08	
Sundry assets	21,533.52	
	\$ 27,394,207.22	\$ 27,394,207.22

Debit	INCOME ACCOUNT	Credit
Operating expenses	744,832.1	Operating revenue
Taxes accrued	131,164.25	Non-operating revenues
Income tax on coupons paid	1,972.23	Non-operating rent revenues
Bond discount amortized	9,067.96	Sundry interest received
Bond interest	112,937.50	
Sundry interest paid	37,842.83	
Retirement expense	15,000.00	
	\$ 1,052,816.94	\$ 1,275,016.78

Debit	PROFIT AND LOSS	Credit
Balance March 31, 1928	413,755.37	Balance Dec. 31, 1927
Miscellaneous adjustments	5.00	Balance from income account
Dividend expense	155,336.93	
	\$ 569,097.30	\$ 569,097.30

PORTLAND GAS AND COKE COMPANY GENERAL BALANCE SHEET
QUARTER ENDING JUNE 30, 1928

Debit	CAPITAL ACCOUNT	Credit
Stocks and bonds of other companies owned by respondent (give detail)	54,451.00	Capital stock
Pledged bonds	2,379,000.00	Funded debt
		Capital stock subscribed
		Premium on capital stock
		11,454,500.00
		13,424,000.00
		3,400.00
		185.00

Debit	ASSETS AND LIABILITIES	Credit
Cash	127,285.66	Audited vouchers and accounts
Bills receivable	542,635.36	Other liabilities
Accounts receivable	767,102.08	Consumers' deposits
Plant and property	21,134,437.46	Accrued accounts
Material and supplies	380,402.10	Reserve accounts
Other assets	22,399.00	Surplus
Prepaid accounts	21,771.12	
Suspense	35,334.51	
Construction work in progress	391,749.47	
Bond discount and expense	489,110.39	
	\$ 27,345,678.15	\$ 27,345,678.15

Debit	INCOME ACCOUNT	Credit
Operating expenses	1,350,169.06	Operating revenue
Taxes accrued	256,922.85	Non-operating revenues
Income tax on coupons paid	2,016.65	Non-operating rent revenues
Bond discount amortized	19,699.30	Sundry interest revenues
Bond interest	234,750.00	
Sundry interest paid	39,301.79	
Retirement expense	30,000.00	
	\$ 1,932,859.65	\$ 2,394,560.51

Debit	PROFIT AND LOSS	Credit
Balance June 30, 1928	468,241.83	Balance Dec. 31, 1927
Dividends expense	339,786.00	Balance from income account
Miscellaneous adjustments	570.49	
	\$ 808,598.32	\$ 808,598.32

PORTLAND GAS AND COKE COMPANY GENERAL BALANCE SHEET
QUARTER ENDING SEPTEMBER 30, 1928

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)	\$ 54,451.00	Capital stock	\$ 11,454,600.00	Funded debt	13,324,000.00
Pledged bonds	3,379,000.00	Capital stock subscribed	3,400.00	Premium on capital stock	197.00

Debit		ASSETS AND LIABILITIES		Credit	
Cash	\$ 110,687.30	Audited vouchers and accounts	\$ 381,906.95	Other liabilities	1,454.00
Bills receivable	612,635.36	Consumers' deposits	86,135.49	Accrued accounts	647,020.87
Accounts receivable	896,987.79	Reserve accounts	1,095,193.01	Unadjusted credits	12,795.80
Plant and property	21,083,987.81	Surplus	520,533.93		
Material and supplies	297,817.14				
Other assets	22,172.87				
Prepaid accounts	18,953.75				
Franchise suspense	53,398.26				
Construction work in progress	614,182.68				
Bond discount and expense	482,963.09				
	\$ 27,627,237.05		\$ 27,627,237.05		

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 1,969,251.40	Operating revenue	\$ 3,506,326.34	Dividends on stocks owned	50.00
Taxes accrued	376,741.10	Non-operating revenues	681.58	Non-operating rent revenues	3,609.97
Income tax on coupons paid	3,522.90	Sundry interest revenues	38,609.88		
Bond discount amortized	30,344.78				
Bond interest	356,562.50				
Sundry interest paid	40,280.37				
Retirement expense	45,000.00				
	\$ 2,821,703.05		\$ 3,549,277.77		

Debit		PROFIT AND LOSS		Credit	
Balance Sept. 30, 1928	\$ 520,533.93	Balance Dec. 31, 1927	\$ 346,897.46	Balance from income account	727,574.72
Dividend expense	553,948.85				
Miscellaneous adjustments, net	10.60				
	\$ 1,074,472.18		\$ 1,074,472.18		

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY GENERAL BALANCE SHEET QUARTER ENDING DECEMBER 31, 1927

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)	\$ 45,881,135.81	Capital stock	\$ 175,000,000.00	Funded debt	59,150,000.00
Other intangible capital	1,136,342.20				
Miscellaneous investments	747,420.50				

Debit		ASSETS AND LIABILITIES		Credit	
Cash and deposits	\$ 899,287.40	Advances, loans and bills payable	\$ 35,848,201.08	Audited vouchers and accounts	3,355,535.85
Bills receivable and advances	48,924,138.11	Wages and salaries	1,330,697.63	Other liabilities (give detail)	4,714,454.42
Accounts receivable, due from agents	5,198,737.91	Taxes	\$ 3,062,279.00	Interest	200,575.00
Construction	186,249,554.43	Dividends	1,230,000.00	Tax on tax exempt bonds	17,841.75
General equipment	4,755,254.60	Employes' stock purchase installments	193,758.67	Miscellaneous	1,000.00
Materials and supplies	2,110,960.89	Liability for Employes' Benefit Fund	1,480,239.23	Insurance and casualty reserves	85.59
Accrued income not due	281,940.30	Reserve for accrued depreciation	41,044,878.41	Reserve for amortization of intangible capital	158,311.81
Real estate	24,054,815.62	Other deferred credit items	707,051.89	Surplus	8,203,343.01
Franchises	8,051.00				
Sinking fund assets	668,072.16				
Prepayments	591,995.46				
Unamortized debt, discount and expense	2,579,167.50				
Unexpended discount on capital stock	6,875,000.00				
Other suspense	43,025.03				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 42,579,507.87	Operating revenue	\$ 59,748,120.72	Dividends on stocks owned	342,638.70
Uncollectible	440,530.20	Interest on funded debts owned, interest on securities, loans and accounts	3,324,586.41	Other non-operating revenues	11,001.12
Taxes accrued	5,159,219.51				
Miscellaneous rents	709,322.03				
Rent expense	3,459.38				
Miscellaneous deductions from income	18,335.64				
Amortization of debt, discount and expense	159,946.87				
Interest	5,254,078.84				
Amortization of landed capital	33,745.00				
Dividend appropriation of income	10,530,952.30				

Debit		PROFIT AND LOSS		Credit	
Balance from income of	\$ 1,462,750.69	Balance	\$ 9,397,797.48	Miscellaneous additions to surplus	331,466.33
Other deductions from surplus	30,730.32				
Amortization unprovided for elsewhere	32,439.79				

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY GENERAL
BALANCE SHEET QUARTER ENDING MARCH 31, 1928

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)	\$ 45,931,135.81	Capital stock	\$175,000,000.00	Funded debt	58,679,000.00
Other intangible capital	1,136,242.20				
Miscellaneous investments	749,006.04				

Debit		ASSETS AND LIABILITIES		Credit	
Cash and deposits	\$ 1,590,398.65	Advances, loans and bills payable	\$ 40,448,201.08	Audited vouchers and accounts	3,694,719.33
Bills receivable and advances	48,716,525.35	Wages and salaries	1,301,666.51	Other liabilities (give detail)	4,589,420.96
Accounts receivable, due from agents	5,376,409.72	Taxes	\$2,172,142.40	Interest	957,845.87
Construction	189,901,211.65	Dividends ..	1,230,000.00	Tax on tax exempt bonds ..	22,435.63
General equipment	4,875,790.83	Employees' stock purchase installments ..	196,997.06	Miscellaneous ..	1,000.00
Materials and supplies ..	2,711,903.72	Miscellaneous ..	1,000.00	Employees' benefit reserve	1,460,850.64
Accrued income not due	218,468.24	Liability on account of providing funds	132,612.24	Reserve for accrued depreciation	41,975,618.04
Real estate	24,275,672.05	Reserve for amortization of intangible capital	163,058.28	Insurance and casualty reserves ..	140.56
Franchises	8,051.00	Other deferred credit items	837,361.32	Surplus	7,457,123.38
Sinking fund assets	128,455.16				
Prepayments	674,848.07				
Unamortized debt, discount and expense	2,530,720.47				
Unexpended discount on capital stock	6,820,944.75				
Other suspense	112,988.53				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 11,210,120.03	Operating revenue	\$ 1,517,776.03	Dividends on stocks owned	28,146.85
Uncollectible	241,288.94	Interest on funded debts owned, interest on securities, loans and accounts	834,014.71	Other non-operating revenues	2,305.51
Taxes accrued	1,406,311.29				
Miscellaneous rents	201,107.47				
Rent expense	1,384.50				
Miscellaneous deductions from income	4,593.88				
Amortization of debt, discount and expense ..	39,734.76				
Interest	1,329,115.14				
Amortization of landed capital	9,045.00				
Dividend appropriation of income	2,857,500.00				

Debit		PROFIT AND LOSS		Credit	
Balance from income of. \$	717,957.91	Balance	\$ 8,203,343.01	Miscellaneous additions to surplus	452.55
Other deductions from surplus	27,714.27				

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY GENERAL
BALANCE SHEET QUARTER ENDING JUNE 30, 1928

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)	\$ 45,998,225.81	Capital stock	\$175,000,000.00	Funded debt	58,668,000.00
Other intangible capital	1,136,242.20				
Miscellaneous investments	527,664.54				

Debit		ASSETS AND LIABILITIES		Credit	
Cash and deposits	\$ 1,511,153.52	Advances, loans and bills payable	\$ 44,144,427.63	Audited vouchers and accounts	4,158,925.10
Bills receivable and advances	47,642,334.96	Wages and salaries	1,240,416.38	Other liabilities (give detail)	4,492,109.80
Accounts receivable, due from agents	5,980,396.72	Taxes	\$2,843,863.68	Interest	200,576.34
Construction	195,088,628.68	Dividends ..	1,230,000.00	Tax on tax exempt bonds ..	10,037.05
General equipment	5,070,728.98	Employees' stock purchase installment ..	197,632.73	Miscellaneous ..	1,000.00
Materials and supplies ..	2,416,543.42	Miscellaneous ..	1,000.00	Employees' benefit reserve	1,470,419.30
Accrued income not due	262,320.78	Liability on account of providing funds	132,612.24	Reserve for accrued depreciation	43,090,944.07
Real estate	24,582,383.05	Reserve for amortization of intangible capital	168,005.89	Insurance and casualty reserves ..	212.16
Franchises	8,051.00	Other deferred credit items	837,361.32	Surplus	7,242,342.48
Sinking fund assets	312,657.10				
Prepayments	674,224.65				
Unamortized debt, discount and expense	2,491,070.52				
Unexpended discount on capital stock	6,820,944.75				
Other suspense	102,153.27				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 22,478,483.42	Operating revenue	\$ 32,138,306.20	Dividends on stocks owned	44,989.35
Uncollectible	467,932.06	Interest on funded debts owned, interest on securities, loans and accounts	1,666,252.12	Other non-operating revenues	3,572.40
Taxes accrued	2,797,814.65				
Miscellaneous rents	405,349.19				
Rent expense	2,599.43				
Miscellaneous deductions from income ..	9,004.76				
Amortization of debt, discount and expense ..	79,384.71				
Interest	2,703,904.83				
Amortization of landed capital	18,570.00				
Dividend appropriation of income	5,715,000.00				

Debit		PROFIT AND LOSS		Credit	
Balance from income of. \$	824,922.98	Balance	\$ 8,203,343.01	Miscellaneous additions to surplus	828.70
Miscellaneous deductions from surplus	136,906.25				

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY GENERAL BALANCE SHEET QUARTER ENDING SEPTEMBER 30, 1928

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)	\$ 46,025,660.81	Capital stock	\$175,000,000.00	Funded debt	58,525,500.00
Other intangible capital	1,138,372.88				
Miscellaneous investments					
Miscellaneous investments	524,279.43				

Debit		ASSETS AND LIABILITIES		Credit	
Cash and deposits	\$ 2,139,51.56	Advances, loans and bills payable	\$ 48,344,427.63	Audited vouchers and accounts	3,787,063.55
Bills receivable and advances	46,882,165.17	Other liabilities (give detail)	5,180,624.31	Taxes	\$2,769,595.16
Construction	200,388,590.51	Interest	956,251.41	Dividends	1,230,000.00
General equipment	5,248,625.10	Tax on tax exempt bonds	14,276.93	Tax on tax exempt bonds	14,276.93
Materials and supplies	2,558,821.57	Employees' stock purchase installments	200,500.81	Miscellaneous	1,000.00
Accrued income not due	294,097.72	Employees' benefit reserve	1,453,650.06	Reserve for accrued depreciation	44,274,707.77
Real estate	24,861,220.02	Reserve for amortization of intangible capital	168,003.41	Insurance and casualty reserves	261.39
Franchises	8,051.00	Liability on account of providing funds	141,127.03	Other deferred credit items	1,054,637.83
Sinking fund assets	127,471.88	Surplus	7,352,608.45		
Prepayments	673,032.97				
Unamortized debt, discount and expense	2,448,090.31				
Unexpended discount on capital stock	6,820,944.75				
Other suspense	162,203.75				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 33,845,803.31	Operating revenue	\$ 48,972,325.72	Dividends on stocks owned	66,096.75
Uncollectible	6,945,114.13	Interest on funded debts owned, interest on securities, loans and accounts	2,491,141.89	Other non-operating revenues	15,236.66
Taxes accrued	4,208,270.02				
Miscellaneous rents	618,462.99				
Rent expense	3,501.99				
Miscellaneous deductions from income	13,244.64				
Amortization of debt, discount and expense	118,950.08				
Interest	4,145,712.10				
Amortization of landed capital	28,450.00				
Dividend appropriations of income	8,572,500.00				

Debit		PROFIT AND LOSS		Credit	
Balance from income of	\$ 704,608.24	Balance	\$ 8,203,343.01	Miscellaneous additions to surplus	1,415.06
Miscellaneous deductions from surplus	147,541.38				

PORTLAND ELECTRIC POWER COMPANY GENERAL BALANCE SHEET QUARTER ENDING DECEMBER 31, 1927

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)	\$ 936,741.61	Capital stock	\$ 34,688,196.00	Funded debt	77,096,100.00
Bonds in treasury	23,910,000.00	Paving assessments	280,704.79	Employees' funds	1,610.18
Unpaid subscriptions to capital stock	223,815.46	Customers' deposits	93,136.24	Tickets outstanding	68,962.59
Advances to affiliated companies	746,309.58	Line extension deposits	105,584.75		
Prepaid accounts	50,726.38				
Other investments	55,143.34				

Debit		ASSETS AND LIABILITIES		Credit	
Cash	\$ 185,648.14	Loans and bills payable	\$ 456,500.00	Audited vouchers and accounts	559,492.92
Bills receivable	66,762.59	Unpaid dividends	51,284.75	Miscellaneous	163,691.72
Accounts receivable	945,874.67	Deposits account real estate sales	89,540.72	Interest accrued	628,086.95
Stock reacquired	340,300.00	Taxes accrued	1,272,953.80	Operating reserves	48,743.70
Material and supplies	678,838.50	Insurance and casualty reserves	3,932.72	Depreciation reserve	2,626,274.66
Bond discount	2,425,839.51				
Sinking fund investments	8,300,100.00				
Cash in sinking funds uninvested	144,349.11				
Cash in hands of trustees	904,409.50				
Special deposits	13,636.72				
Suspense	205,214.79				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 1,637,746.02	Operating revenue	\$ 3,154,223.61		
Taxes	318,605.01				
Miscellaneous rents	821.20				
Bridge rentals	23,579.79				
Interest on funded debt	580,768.23				
Interest on floating debt	7,534.52				
Interest on street improvement bonds	4,327.83				
Uncollectible operating revenue	5,970.11				
Miscellaneous debits	16,202.14				
Bond discount	35,866.51				
Net income for quarter	512,802.25				

Debit		PROFIT AND LOSS		Credit	
Balance	\$ 189,53.22	Balance Sept. 20, 1927	\$ 1,216,831.61	Balance from income account	512,802.25
Dividends for quarter ending Dec. 31, 1927	366,537.27	Surplus Dec. 31, 1927	1,173,563.37		

PORTLAND ELECTRIC POWER COMPANY GENERAL BALANCE SHEET
QUARTER ENDING MARCH 31, 1928

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)		Capital stock	\$ 35,099,236.60	Funded debt	76,883,600.00
Bonds in treasury	23,910,000.00	Paving assessments	343,980.44	Employees' funds	1,479.19
Unpaid subscriptions to capital stock	199,331.32	Customers' deposits	91,620.56	Tickets outstanding	70,332.39
Advances to affiliated companies	766,281.76	Line extension deposits	106,057.20		
Prepaid accounts	51,304.69				
Other investments	57,851.42				

Debit		ASSETS AND LIABILITIES		Credit	
Cash	\$ 540,420.88	Loans and bills payable	\$ 339,000.00	Audited vouchers and accounts	415,144.53
Bills receivable	59,299.72	P. E. P. gold notes unclaimed	1,000.00	Unpaid dividends	562,009.83
Accounts receivable	931,469.16	Matured interest coupons unpaid	45,486.25	Miscellaneous	194,053.38
Stocks reacquired	340,300.00	Deposits account real estate sales	91,442.22	Interest accrued	937,549.91
Material and supplies	708,424.81	Taxes accrued	1,625,041.83	Operating reserves	38,139.64
Bond discount	2,368,128.97	Operating reserves		Insurance and casualty reserves	3,776.41
Sinking fund investments	8,447,800.00	Depreciation reserve	2,636,366.96		
Cash in sinking funds	103,325.52				
Cash in hands of trustees	45,486.25				
Special deposits	38,219.12				
Suspense	238,560.38				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 1,680,214.94	Operating revenue	\$ 3,203,049.74		
Taxes	372,351.45				
Miscellaneous rents	820.20				
Bridge rentals	23,204.63				
Interest on funded debt	580,620.31				
Interest on unfunded debt	10,497.23				
Uncollectible operating revenue	6,102.94				
Miscellaneous debits	15,979.79				
Bond discount	35,905.47				
Net income for quarter	477,352.51				

Debit		PROFIT AND LOSS		Credit	
Adjustments	\$ 55,403.37	Balance Dec. 31, 1927	\$ 1,173,563.37	Balance from income account	477,352.51
Dividends for quarter ending March 31, 1928	923,479.91	Surplus March 31, 1928	672,032.60		

PORTLAND ELECTRIC POWER COMPANY GENERAL BALANCE SHEET
QUARTER ENDING JUNE 30, 1928

Debit		CAPITAL ACCOUNT		Credit	
Stocks and bonds of other companies owned by respondent (give detail)		Capital stock	\$ 35,739,934.00	Funded debt	77,350,100.00
Bonds in treasury	24,443,488.33	Paving assessments	333,923.74	Employees' funds	1,480.60
Unpaid subscriptions to capital stock	181,449.14	Consumers' deposits	90,718.20	Tickets outstanding	66,481.60
Advances to affiliated companies	769,142.37	Line extension deposits	112,961.56		
Prepaid accounts	61,020.36				
Other investments	58,167.35				

Debit		ASSETS AND LIABILITIES		Credit	
Cash	\$ 256,737.95	Loans and bills payable	\$ 1,497,000.00	Audited vouchers and accounts	510,156.92
Bills receivable	72,725.84	P. E. P. gold notes unclaimed	900.00	Unpaid dividends	63,971.22
Accounts receivable	1,025,755.22	Matured interest coupons unpaid	848,861.25	Miscellaneous	220,465.23
Stock reacquired	335,100.00	Deposits account real estate sales	95,611.22	Interest accrued	626,751.21
Plant, property and equipment	80,729,246.03	Taxes accrued	1,380,410.06	Operating reserves	15,230.95
Material and supplies	741,801.74	Operating reserves		Insurance and casualty reserves	3,497.76
Bond discount	2,298,477.46	Depreciation reserve	2,715,020.48		
Sinking fund investments	9,073,400.00				
Cash in sinking funds uninvested	158,705.85				
Cash in hands of trustees	848,858.75				
Special deposits	46,448.47				
Suspense	257,006.49				

Debit		INCOME ACCOUNT		Credit	
Operating expenses	\$ 1,655,213.70	Operating revenue	\$ 3,075,429.86		
Taxes	346,224.21				
Miscellaneous rents	857.70				
Bridge rentals	23,701.87				
Interest on funded debt	571,237.81				
Interest on unfunded debt	20,541.61				
Uncollectible operating revenue	5,896.58				
Miscellaneous debts	16,972.17				
Bond discount	35,139.75				
Net income for quarter	399,644.46				

Debit		PROFIT AND LOSS		Credit	
Adjustments	\$ 59,929.35	Balance	\$ 672,032.60	Balance from income account	399,644.46
Dividends for quarter ending June 30, 1928	388,190.75	Surplus June 30, 1928	623,556.96		

PORTLAND ELECTRIC POWER COMPANY GENERAL BALANCE SHEET
 QUARTER ENDING SEPTEMBER 30, 1928

Debit		CAPITAL ACCOUNT	Credit
Stocks and bonds of other companies owned by respondent (give detail)	\$ 974,531.61	Capital stock	\$ 36,251,178.00
Bonds in treasury	24,444,466.90	Funded debt	77,139,100.00
Unpaid subscriptions to capital stock	176,838.84	Paving assessments	322,509.60
Advances to affiliated companies	809,120.94	Employes' funds	1,455.85
Prepaid accounts	47,233.56	Consumers' deposits	92,634.08
Other investments	58,167.35	Tickets outstanding	71,508.40
		Line extension deposits	113,747.06

Debit		ASSETS AND LIABILITIES	Credit
Cash	\$ 292,103.59	Loans and bills payable	\$ 1,404,500.00
Bills receivable	92,712.15	Audited vouchers and accounts	462,707.57
Accounts receivable	1,034,110.72	P. E. P. gold notes unclaimed	900.00
Stock reacquired	513,100.00	Unpaid dividends	50,299.52
Plant, property and equipment	81,017,713.51	Matured interest coupons unpaid	682,996.25
Material and supplies	760,877.57	Miscellaneous	213,018.15
Bond discount	2,235,881.55	Deposits account real estate sales	97,561.22
Sinking fund investments	9,236,500.00	Interest accrued	944,119.47
Cash in sinking fund uninvested	109,161.43	Taxes accrued	1,680,797.08
Cash in hands of trustees	682,996.25	Operating reserves	3,241.17
Special deposits	10,670.07	Insurance and casualty reserves	6,199.91
Suspense	253,211.49	Depreciation reserves	2,710,594.98

Debit		INCOME ACCOUNT	Credit
Operating expenses	\$ 1,706,517.36	Operating revenue	\$ 2,978,862.91
Taxes	307,398.65		
Bridge rentals	23,967.71		
Interest on funded debt	566,080.31		
Interest on unfunded debt	27,721.60		
Miscellaneous debits	13,040.44		
Bond discount	34,682.70		
Net income for quarter	299,454.14		

Debit		PROFIT AND LOSS	Credit
Adjustments	\$ 47,471.88	Balance	\$ 623,556.96
Dividends for quarter ending Sept. 30, 1928	375,210.00	Balance from income account	299,454.14
		Surplus Sept. 30, 1928	500,329.22

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